CASE NUMBER:

99-070

JOHN N. HUGHES Attorney at Law Professional Service Corporation 124 WEST TODD STREET FRANKFORT, KENTUCKY 40601

Telephone: (502) 227-7270

September 3, 1999

Telecopier: (502) 875-7059

RECEIVED

SEP 0 3 1999

PUELIC SERVICE COMMISSION

Ms. Helen Helton Executive Director Kentucky Public Service Commission 730 Schenkel Lane Frankfort, KY 40602

Re: Case No. 99-070

Dear Ms. Helton:

Please file the Responses of Western Kentucky Gas Company to the Commission's Second Request for Information, the Attorney General's First Request for Information and its Petition for Confidentiality for certain of the responses. Items 181 and 182 of the Attorney General's request are not complete. They require a search of archived information and will be filed as soon as available.

Thank you for your assistance, and if there are any questions about this matter or if additional information is needed, please contact me.

ncerely Your ohn N. Hughes

Attorney for Western Kentucky Gas Company

cc: Intervenors

RECEIVED

SEP 0 3 1999

SEP U S PUBLIC BERVICE

RĽ

COMMONWEALTH OF KENTUCKY COMMISSION

IN THE MATTER OF:

RATE APPLICATION OF WESTERN KENTUCKY GAS COMPANY

Case No. 99-070

<u>PETITION FOR CONFIDENTIALITY OF CERTAIN INFORMATION</u> <u>PROVIDED IN RESPONSE TO THE STAFF'S</u> <u>SECOND REQUEST FOR INFORMATION</u>

Comes now Western Kentucky Gas Company ("Western"), pursuant to 807 KAR 5:001, Section 7, and all other applicable law, and for its Petition for Confidentiality, states as follows:

In Item No. 47 (c) of the Staff's Second Request for Information, Western was requested to provide a breakdown, by customers, of the adjusted volumes and revenues for "Total Special Contracts". This information is set forth in the two page Schedule to KPSC DR 47(c), a copy of which is attached as Exhibit "A".

Exhibit "A" reveals volume and discount levels for each special contract industrial customer for whom a discount has been negotiated, disclosure of all of which is necessary in order to provide the calculations requested by the Commission.

Pursuant to KRS 61.878(1)(c) the following documents are eligible for confidential

treatment:

"Upon and after July 15, 1992, records confidentially disclosed to an agency or required by an agency to be disclosed to it, generally recognized as confidential or proprietary which if openly disclosed would permit an unfair commercial advantage to competitors of the entity that disclosed the records ----".

This is the same standard adopted by the Commission pursuant to 807 KAR 5:0001, Section 7. Company specific details concerning volumes and confidentially negotiated discounts with private enterprises are generally recognized as confidential and proprietary. Disclosure of details pertaining to a particular customer's volume and discount, are likely to cause substantial competitive harm to Western. Knowledge of these facts will provide Western's competitors with a substantial advantage in future business negotiations with Western's customers. Western's competitors would have a clear advantage in competing for these customers since knowledge of a existing Western discounts would enable them to slightly undercut Western's charges. On the other hand, Western's unregulated competitors are not required to make public similar information.

Accordingly, the value of the information is derived by not being readily ascertainable by Western's competitors who would have a clear economic advantage upon disclosure. Negotiations concerning the discounts were maintained with strict confidentiality. None of this information is posted or otherwise generally made available within the company or without. Only those employees of Western who have a legitimate need to know have knowledge of the information contained in Exhibit "A".

Additionally, disclosure of this information would put Western at a disadvantage in future negotiations of special contracts with other industrial customers. There would be little room for

bargaining when a potential customer knows exactly what discounts Western has negotiated with other industrial customers. This likewise would put Western at an unfair commercial disadvantage.

WHEREFORE, Western respectfully request that the attached be treated a confidential.

One copy of the attached response has been submitted with the confidential portions highlighted for review and consideration by the Commission. Redacted copies of these documents have been submitted with Western's filing.

Respectfully submitted this $\underline{3}^{-4}$ day of September, 1999.

Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265

SHEFFER - HUTCHINSON - KINNEY Mark R. Hutchinson 115 E. Second St. Owensboro, KY 42303

John N. Hughes 124 West Todd Street Frankfort, KY 40601

Attorneys for Western Kentucky Gas Company

By:_____

3

VERIFICATION

I, Gary Smith, being duly sworn under oath, state that I am Vice President of Marketing of Western Kentucky Gas Company, and that the foregoing statements are true of my own

knowledge except as to those matters therein stated on information and belief, and as to those matters I believe them to be true.

Gary Spith

STATE OF KENTUCKY COUNTY OF DAVIESS

SUBSCRIBED AND SWORN to before me by Gary Smith on this the 3^{12} day of September, 1999.

Notary Public . tog t My Commission

CERTIFICATE OF SERVICE

I hereby certify that on the $\underline{3}\underline{\wedge}\underline{d}$ day of September, 1999, the original of this Petition, together with fifteen (15) copies, was filed with the Kentucky Public Service Commission, 730 Schenkel Lane, Frankfort, Kentucky 40602, and a true copy thereof mailed by first class mail to the following named person:

Hon. David Spenard Assistant Attorney General Office of Rate Intervention 1024 Capitol Center Drive Frankfort, Kentucky 40601

Mark R. Hutchinson

O:\USERS\BKK\WKG\PSC\Rate\PET4

3

		Reference Per	iod - Twelve l	Months Ending 9/	36/05	Forward-lool	ing Adjustments			`
		Volume	Contract Adj. Bille and	Weather Adi	Total	Customer	Conservation & Efficiency	Total Test Year	Present	Present
No. Description	Service Type	As Metered	Volumes	Volumes	Volumes	Forecast	Adjustments	Volumes	Margin	Revenue
(a) 1 SPECIAL CONTRACTS:	(b)	(c)	(d)	(1)	(9	(g)	(h)	Ξ	e	8
2				• .		. .				
						-				
ы. -			•			•				
6			-	-		-				
										·
0		-				-				
10		=					-			
11 .			-							
12			-		-					
		•								
15 .							-			
16 Customer C				_						
18										
19 Customer D										
20 21 Outomor E										
22										
23 Customer F										
24										
26 Customer G										
27										
28 29 Customer H				-						
30		-						•		
31 Customer I			-							
32 				-						•
37 -						-			•	
		-		-	·	_	2			

No.

•

26-

36 [1] Overrun and Sales Volumes, as

<u>CONFIDENTIAL</u> DR ltem 47 (c) Schedule | of 2

Western Kentucky Gas Company Summary of Revenue at Present Rates Test Year Ending 12/31/2000 Special Contracts

			•	
, 	22 22 22 22 22 22 22 22 22 22 22 22 22	10 11 12 13 14 13 14 15 15 16 17 18 19 10 10 10 10 10 10 10 10 10 10	1 SPEC 2 Custo 3 Custo 6 Custo 7 7	Xo.
-	-)verrun and Sales	smer M ecial Contracts Tot	(a) SIAL CONTRAC Imer J mer K	Description
	Volumes,	Ĕ.	13:	
			3	Service Type
,		· .		
			E	Western Summary o Test Y S Reference Pe Volumes
2 2 1				Kentucky Ga f Revenue at pecial Contra ;pecial Contra ;pod - Twelve ;riod - Twelve Bills and
2			٤	s Company Present Rates 1/31/2000 1cts Months Endin Weather Ac
	• •		3	18 9/30/98 dj. Total Volume
			⁻ .	F G CL
			6 -	ward-looking To Test Somer Corowth
			3	, Adjustments Year Onservation & Efficiency Adjustments
			5	Total Test Year Volumes
				Pres
				Sch Dra
		· · ·		JFIDENTIAL Juem 47 (c) nedule 2 of 2 Revenue
-		· . 		

		Summary of Test Yes Special Contr	Revenue at Pr ar Ending 12/3 acts - REDAC	esent Rates 1/2000 TED COPY						
		Reference Per	iod - Twelve M	lonths Ending 9	/30/98	Forward-loc To	king Adjustments Test Year			-
	Contine Type	Volumes As Metered	Contract Adj. Bills and Volumes	Weather Adj. Volumes	Total Volumes	Customer Growth Forecast	Conservation & Efficiency Adjustments	Total Test Year Volumes	Present Margin	Present Revenue
(a)	(6)	(c)	(d)	(f)	(c)	(g)	(h)	9	9	(k)
		a		·		-				
. . .						-				,
5 7										-
							·			
3										
4 5 Special Contracts Total		13,230,373	101,730	•	13,332,103		-	13,332,103	#	1,692,428
8 7 0										
00										
- 2 3			·	-	·					-
8 6 1			-	- . •		-				-
č 88 č			•						යා -	
						- -			·	
13 12 1		т 184 ⁴ г. – 1				-	-			

~

<u>CONFIDENTIAL</u> DR Item 47 (c) Schedule 2 of 2

Western Kentucky Gas Company



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KENTUCKY 40602 www.psc.state.ky.us (502) 564-3940 Fax (502) 564-1582

Ronald B. McCloud, Secretary Public Protection and Regulation Cabinet

Helen Helton Executive Director Public Service Commission

September 3,1999

2

Paul E. Patton Covernor

Mark R. Hutchinson, Esq. Sheffer, Hutchinson & Kinney 115 East Second Street Owensboro, Kentucky 42303

John N. Hughes, Esq. 124 West Todd Street Frankfort, Kentucky 40601

David E. Spenard, Esq. Assistant Attorney General 1024 Capital Center Drive Frankfort, Kentucky 40601-8204

Robert M. Watt, Jr., Esq. J. Mel Camenisch, Jr., Esq. 201 E. Main Street, Suite 1000 Lexington, Kentucky 40507-1380

> Re: Case No. 99-070 Western Kentucky Gas Company

Gentlemen:

Attached is a copy of a memorandum that is being filed into the record in the above-referenced case.

Sincerely Executive Difector

alm Attachment



AN EQUAL OPPORTUNITY EMPLOYER M/F/D

TO: MAIN CASE FILE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR ADJUSTMENT OF RATES CASE NO. 99-070

FROM: ANITA MITCHELL STAFF ATTORNEY

DATE: September 3, 1999

The U.S. Agency for International Development and United States Energy Association sponsored a managerial exchange visit between the Kentucky Public Service Commission ("Commission") and the Armenian Energy Regulatory Commission ("Armenian Delegation") in Frankfort, Kentucky, August 7-19, 1999. The exchange visit included a tour by the Armenian Delegation of Western Kentucky Gas Company ("Western") on Thursday, August 12, 1999. Three staff members of the Commission, Ralph Dennis, Neal Fitch and Dawn McGee, accompanied the Armenian Delegation to Western Kentucky Gas Company. These staff members have not been, and will not be, involved in the Application for Adjustment of Rates filed by Western on June 23, 1999.

cc All Parties of Record



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

September 1, 1999

To: All parties of record

RE: Case No. 99-070

We enclose one attested copy of the Commission's Order in the above case.

Sincerel

Stephanie Bell Secretary of the Commission

SB/sa Enclosure William J. Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY 42303 1312

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hutchinson Kinney 115 East Second Street Owensboro, KY 42303

Honorable John N. Hughes Attorney for Western KY Gas 124 West Todd Street Frankfort, KY 40601

Mr. Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265 0

Honorable David E. Spenard Assistant Attorney General 1024 Capital Center Drive Frankfort, KY 40601 8204

Hon. Robert M. Watt, Hon. J. Mel Camenisch, Jr. STOLL, KEENON & PARK, LLP 201 E. Main Street, Suite 1000 Lexington, KY 40507 1380

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF WESTERN) KENTUCKY GAS COMPANY FOR AN) ADJUSTMENT OF RATES)

CASE NO. 99-070

<u>order</u>

This matter arises upon the motion of WBI Southern, Inc. ("WBI Southern"), filed August 17, 1999, for full intervention. It appears to the Commission that WBI Southern has a special interest which is not otherwise adequately represented, and that such intervention is likely to present issues and develop facts that will assist the Commission in fully considering the matter without unduly complicating or disrupting the proceedings. The Commission also recognizes that a procedural schedule was established in this proceeding by Order dated July 2, 1999. The Commission, being otherwise sufficiently advised, finds that WBI Southern should be granted full rights of a party in this proceeding accepting the procedural schedule as it now stands.

IT IS HEREBY ORDERED that:

1. The motion of WBI Southern to intervene is granted.

2. WBI Southern shall be entitled to the full rights of a party and shall be served with the Commission's Orders and with filed testimony, exhibits, pleadings, correspondence, and all other documents submitted by parties after the date of this Order. 3. Should WBI Southern file documents of any kind with the Commission in the course of these proceedings, it shall also serve a copy of said documents on all other parties of record.

Done at Frankfort, Kentucky, this 1st day of September, 1999.

By the Commission

ATTEST:

Execut e Director

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

1:00

In the Matter of: THE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN ADJUSTMENT OF RATES

Case No. 99-070

AUG 1 8 1889

INITIAL REQUEST FOR INFORMATION BY THE ATTORNEY GENERAL

Comes now the Attorney General of the Commonwealth of Kentucky, by and through his Office of Rate Intervention, and submits this Initial Request for Information by the Attorney General.

(1) In each case where a request seeks data provided in response to a staff request, reference to the appropriate request item will be deemed a satisfactory response.

(2) Please identify the company witness who will be prepared to answer questions concerning each request.

(3) These requests shall be deemed continuing so as to require further and supplemental responses if the company receives or generates additional information within the scope of these requests between the time of the response and the time of any hearing conducted hereon.

(4) If any request appears confusing, please request clarification directly from the Office of Attorney General.

1

(5) To the extent that the specific document, workpaper or information as requested does not exist, but a similar document, workpaper or information does exist, provide the similar document, workpaper, or information.

(6) To the extent that any request may be answered by way of a computer printout, please identify each variable contained in the printout which would not be self evident to a person not familiar with the printout.

(7) If the company has objections to any request on the grounds that the requested information is proprietary in nature, or for any other reason, please notify the Office of the Attorney General as soon as possible.

(8) For any document withheld on the basis of privilege, state the following: date; author; addressee; indicated or blind copies; all persons to whom distributed, shown, or explained; and, the nature and legal basis for the privilege asserted.

(9) In the event any document called for has been destroyed or transferred beyond the control of the company state: the identity of the person by whom it was destroyed or transferred, and the person authorizing the destruction or transfer; the time, place, and method of destruction or transfer; and, the reason(s) for its destruction or transfer. If destroyed or disposed of by operation of a retention policy, state the retention policy.

Initial Request for Information by the Attorney General

- 1. Provide the average daily amount of outstanding short-term debt for the fiscal years 1995, 1996, 1997, 1998, and 1999.
- 2. Provide the average daily interest amount charged on the average daily amount of outstanding short-term debt for the fiscal years 1995, 1996, 1997, 1998, and 1999.

Questions for Donald A. Murry

- 3. Refer to page 2, lines 9-11 of your pre-filed testimony. You state that you were Vicepresident and Corporate Economist and manager of the Washington office for Stone & Webster from 1978 to early 1981. On page 1, lines 12 & 13, you state that you have been a Professor of Economics at the University of Oklahoma from 1974 to present. Please explain the apparent conflict in the overlapping years.
- 4. Refer to page 1, lines 11 and 12. You state that you were on the faculty of the University of Missouri-St. Louis from 1964-74. On page 2, lines 8 and 9 you indicate that you were with the FPC in 1971-72. Please explain the overlap in years in 1971-72.
- 5. Please provide a listing of docket numbers or case numbers for every proceeding in which you have appeared or filed testimony since January 1, 1995.
- 6. Refer to page 6 line 20 of your pre-filed testimony. Please explain and provide an example how the 6.10 percent cost rate for short-term debt was calculated.
- 7. Refer to page 18 lines 5-7 of your pre-filed testimony. You indicate that you considered the need to raise capital in the future rather than making a floatation cost adjustment when you evaluated the DCF results.
 - a. What did you consider to be Western Kentucky Gas Company's need to raise capital in the future?
 - b. How did you use your consideration when you made your final recommendation?
- 8. Refer to page 19, beginning at line 10. You indicate that you used a method to adjust for "size bias" because Atmos is smaller than three of the companies you selected for comparison purposes. At the bottom of page 19, you indicate that the CAPM results are 11.68%. On the next page, when you adjust for size bias, you results are 11.31%. Please explain.
- 9. Refer to Schedule DAM-17. Please explain, and provide an example using data for Atmos Energy Corporation, how the size premium shown in the next to the last column was calculated.

- 10. Refer to Schedule DAM-17. Please provide citations for all published financial or economic research in refereed journals that indicate the justification or need for a size bias adjustment in the CAPM and which supports the method that you used.
- 11. Refer to Schedule DAM-17. Please cite and provide the a copy of the page or pages for the source of the 8.00% equity risk premium shown in the fourth column from the right hand side of the Schedule.
- 12. Refer to Schedule DAM-16. Please cite and provide a copy of the page or pages for the source of the 15.30% Market Total Return shown in the first column of the Schedule.
- 13. Refer to Schedule DAM-16. Please provide citations for all published financial or economic research in refereed journals that indicate that long-term corporate bonds should be used to determine the risk premium for use in the CAPM.
- 14. Refer to Schedule DAM-16. Please provide citations for all published financial or economic research in refereed journals that indicate that a different interest rate proxy should be used to determine a risk premium required by CAPM than the rate added back to the risk premium to determine the required cost of equity. (This is in reference to your use a long-term corporate bonds return to determine the risk premium and the Aaa Corporate Bonds Return to determine the cost of equity.)
- 15. Refer to page 20, line 7. You indicate that you considered the financial market's assessment of the shifting risks between the interstate transmission companies and the local distribution companies. What were your considerations in this regard and how did you quantify them?
- 16. Refer to page 20, line 7. You indicate that you considered the financial market's assessment of the shifting risks between the interstate transmission companies and the local distribution companies. Please provide copies of all studies that you have done, or have read, that indicates how the financial market assesses the shift of risk between the interstate transmission companies and the local gas distribution companies.
- 17. The capital structure, which contains 50.24% equity, 40.36% long-term debt, and 9.40% short-term debt, is different from the current capital structure of Atmos. The 9/30/99 13-month average capital structure contains 42.7% equity, 44.5% long-term debt and 12.8% short-term debt. Which of these capital structures do you believe the financial market assesses when evaluating the risk of Atmos -- the actual one or some hypothetical one? Please explain your answer.

4

18. Refer to page 20, line 2 of your pre-filed testimony. Here you indicate that the cost of equity for Atmos is 11.31% as shown in Schedule DAM-17. Your analysis shows:

	Atn	nos	Moody's Companies	
	<u>High</u>	Low	<u>High</u>	Low
Schedule DAM-6	8.62%	7.63%	7.62%	6.39%
Schedule DAM-7	9.13%	7.68%	7.90%	6.71%
Schedule DAM-8	9.09%	8.97%	7.63%	7.49%
Schedule DAM-9	15.77%	14.78%	10.95%	9.72%
Schedule DAM-10	15.77%	12.28%	10.29%	8.40%
Schedule DAM-11	16.28%	14.83%	11.23%	10.03%
Schedule DAM-12	16.28%	12.33%	10.57%	8.71%
Schedule DAM 13	16.25%	16.12%	10.95%	10.81%
Schedule DAM-14	16.25%	13.62%	10.29%	9.49%

a. Why did you ignore all of the data in your DCF analysis I informing your recommendation?

- b. Why did you ignore all of the data from your Moody's companies in the DCF analysis in forming your recommendation?
- c. Why did you ignore all of the DCF analysis and your finding on page 20 at line 7 to make a recommendation for the cost of equity from 12.0% to 12.5% in Schedule DAM-22?
- 19. Refer to page 20, line 5 where you state that, "if Western Kentucky were raising capital on its own." Under what circumstances could Western Kentucky Gas Company, as a division of Atmos, raise capital on its own?

Questions for John R. Reddy

- 20. Refer to page 4 line 5 of your testimony where you refer to Atmos peer companies. Please provide the names of the companies that you consider to be Atmos peer companies.
- 21. Refer to page 4 line 5 of your testimony where you refer to Atmos peer companies. What criteria did you use to select Atmos peer companies?
- 22. Refer to page 4, lines 5 and 6 of your testimony. You indicate that a 50% debt and 50% equity structure is consistent with the objective of maintaining an "A" credit rating on senior debt. Please provide a copy of the rating agency criteria which indicates that a 50/50 capital structure will assist in maintaining an "A" rated bond.

- 23. Refer to page 5, lines 1-4 of your testimony. You describe a reserve of \$20 million (\$13 million after tax) to account for merger and integration costs associated with the United Cities merger.
 - a. Do you anticipate that the entire amount of the reserve will be used the merger costs?
 - b. Please provide the projected timetable for costing the reserve in an amount/quarter/fiscal year format.
- 24. Refer to page 5, lines 5-8 of your testimony. You indicate that warmer than normal weather has reduced retained earnings. Refer to page 26 of Atmos Energy Corporation Annual Report which shows the consolidated statement of shareholders equity. Please indicate where the weather related losses caused a reduction to retained earnings.
- 25. Refer to page 6, lines 12-16 and to page 4, line 3 of your testimony. Please reconcile the stated 50% debt and 50% equity capital structure objective with the summary of the projected capital structures shown on lines 11- 17 of page 6.
- 26. Reference Mr. Gruber's testimony at page 6, lines 20-21. Please provide budgeted and forecasted O&M expenses for whatever time periods such estimates exist. Please also provide 1999 actual O&M.
- 27. Reference Mr. Gruber's testimony at page 7, line 19.
 - a. Explain exactly how, in Mr. Gruber's opinion, industrial margins subsidize residential rates.
 - b. Quantify the amount of alleged subsidization that Mr. Gruber believes exists in the proposed test year. (And any other recent actual time period that Mr. Gruber may have in mind.) Please provide workpapers detailing the requested quantification.
- 28. Please provide the number of industrial customers for each year 1990 through present. Indicate basis of customer count (average, year-end, number of meters, etc.)
- 29. Reference Mr. Gruber's testimony at page 8, line 13. Provide the numerical support relied on by Mr. Gruber for his testimony that Western has experienced successively declining revenues since the 1995 rate case.
- 30. Reference Mr. Gruber's testimony at page 20, lines 16-17. Please provide a copy of the referenced Commission rules pertaining to distribution main extension, service line and meter for new customers.

- 31. Reference Mr. Gruber's testimony at page 7, lines 4-5.
 - a. Does Mr. Gruber believe the Company's proposed Weather Normalization Adjustment provides benefits to customers? If so, please both describe the nature of the benefits and please quantify the typical or range of benefit to be received by residential customers.
 - b. In Mr. Gruber's opinion, must the WNA be offered on a mandatory, rather than optional basis? If so, please explain with specificity why a voluntary WNA would not be reasonable and why a mandatory WNA is reasonable.
- 32. Reference Mr. Gruber's testimony at page 20, lines 18-19. In Kentucky, is the Company required to provide 100 feet of main, a service line and a meter, at no cost to the customer, for each and every customer who requests gas service? If yes, please explain what it is that requires the Company to provide universal gas service to all requestors in the Company's Kentucky service area.
- 33. Reference Mr. Gruber's testimony at page 22, lines 11-12.
 - a. Please clarify whether Mr. Gruber's use of the term energy refers to the energy component of service or to the delivered price of energy. If other, please explain.
 - b. Please explain how the Commission's approval of the Company's residential proposals in this case will ensure that energy prices will be kept lower than they otherwise would be.
 - c. What would residential energy prices otherwise be, in Mr. Gruber's opinion?
 - d. How much lower will residential energy prices be, in Mr. Gruber's opinion, if the Company's proposals are approved by the Commission?
 - e. Will the proposed Premises Charge help or hinder Western in competing with electricity in the new homes' space heating market? Explain.
- 34. Reference Mr. Hack's testimony at page 2, lines 15-16. Please provide gas delivery interruption experience on the Company's system, for gas otherwise reaching the Company's city gates, for the last ten years:
 - a. Dates of interruptions;
 - b. Volumes interrupted;
 - c. Number of customers interrupted and class in which such interrupted customers are housed; and

- d. Reason for interruptions.
- 35. Reference Mr. Smith's testimony at page 3, lines 21-25. Please provide copy of source information and workpapers detailing the calculation of the referenced 1.5 percent and 0.5 percent growth rates.
- 36. Reference Mr. Smith's testimony at pages 3-4, lines 28-30, and 1-2, respectively.
 - a. Please provide new customer additions attributable to new residential developments for each year 1990 through estimated 2000.
 - b. Please provide new customer additions due to "number of nearby conversion candidates" for each year 1990 through estimated 2000.
 - c. Please provide gas service saturation data indicating the percent of new residential construction that utilizes gas service.
- 37. Reference Mr. Smith's testimony at page 14, lines 8-10. Please provide the basis of Mr. Smith's testimony. Include all numerical support relied on by Mr. Smith, and please include all workpapers leading to the numerical support relied on by Mr. Smith.
- 38. Reference Mr. Smith's testimony at page 14, lines 23-25. Please provide workpapers detailing the calculation of the \$1,600,000 amount of annual margin reduction related to the effects of energy efficiency improvements and conservation in core markets.
- 39. Reference Mr. Smith's testimony at page 14, lines 26-30. Explain why the Company would add unprofitable customers when such additions are inconsistent with the Company's Distribution Main Extensions Rules and Regulations that require "... the potential consumption and revenue will be of such amount and permanence as to warrant the capital expenditure involved to make the investment economically feasible."
- 40. Please provide:
 - new customer usage;
 - estimated service commencement costs;
 - equipment requirements (i.e., footage of main/service lines, etc.); and
 - other information that is routinely provided to management responsible for approving new customer service.
- 41. Reference Mr. Smith's testimony at pages 16-17, lines 20-30 and 1-12, respectively.
 - a. Please provide the volumes Mr. Smith believes are at risk from physical bypass.
 - b. Please provide the volumes Mr. Smith believes are at risk from shifts in production to sister plants outside of western Kentucky.

- c. Please provide the volumes Mr. Smith believes are at risk from alternate fuel competition. What alternate fuels?
- d. Please provide the delivered gas price that Mr. Smith believes is necessary to compete with each alternate fuel identified in c. above.
- 42. Reference Mr. Smith's testimony at page 17, lines 26-27. Please provide the amount of stranded costs associated with the loss of the referenced customers. If Mr. Smith believes there are no costs stranded that were necessary to provide service to the referenced customers, please provide Mr. Smith's explanation for this.
- 43. For the ten largest Company construction projects to provide service to new customers (as opposed to construction projects related to maintenance) since 1995, please provide the information provided to managers responsible for the approval of such projects.
- 44. Reference Mr. Smith's testimony at page 18, lines 4-18.
 - a. Provide Mr. Smith's understanding of the market saturation, or market share, of new residential and small commercial construction served by gas.
 - b. Explain how the proposed Premises Charge (for example, see Ives' testimony at page 10, lines 9-18) is consistent with aggressively marketing gas and addressing electric competition for new residential construction.
- 45. Reference Mr. Smith's testimony at page 16, lines 1-2. Please provide the amount of subsidy provided by industrial customers to residential customers. Please also provide workpapers depicting the calculation of the subsidy amount Mr. Smith is addressing in this part of his testimony.
- 46. Reference Mr. Smith's testimony at page 16, lines 12-13. Explain how the Company's non-industrial customers are not going to participate in the "suffering" from the loss of industrial revenues under the Company's proposal to shift this revenue loss to non-industrial customers in this rate proceeding.
- 47. Reference Mr. Smith's testimony at page 19, lines 6-7. Please provide the residential fair share amount that Mr. Smith believes residential customers should pay and the amount that residential customers actually pay. The difference between these two amounts should equal the amount Mr. Smith believes is "well less" than the residential fair amount. If the reader is mistaken, please provide residential fair share amount, and the amount by which residential payments are less than the fair share amount to data in the Company's case, if possible.
- 48. Reference Mr. Smith's testimony at page 16, lines 4-5. Please provide Mr. Smith's understanding of the amount of the Company's total cost of service that is associated with the significant portion of Western's annual deliveries to industrial sales and transportation customers. Tie the provided amount to data in the Company's filing.

- 49. Reference Mr. Smith's testimony at page 19, lines 19-27. For winters that are 10 percent colder than normal and those that are 10 percent warmer than normal, please provide the dollar amounts that a typical residential customer would save or pay to the Company, respectively, under operation of the proposed Weather Normalization Adjustment clause. The answer to this question may be provided by whomever Western feels is the most appropriate person to respond. Provide workpapers detailing the calculation of the requested customer impacts.
- 50. Reference Mr. Smith's testimony at page 22, lines 7-8. Using test year costs and proposed revenues, please provide class amounts of revenues and costs that demonstrate that Western's proposed rates eliminate or lessen existing cross-class subsidies.
- 51. Reference Mr. Smith's testimony at page 25, lines 19-22.
 - a. If different from the answer to the immediately preceding question, class revenues and class cost responsibilities contained in Mr. Peterson's study, and any other specific contents of Mr. Peterson's study, that were relied upon as a guide for the realignment of class revenue responsibilities.
 - b. Please quantify the amount of class revenue responsibilities the Company proposes to effectuate through its proposals in this case.
- 52. Please explain the circumstances under which the Company would extend its mains and incur other costs in order to connect a gas cooking only customer. Have there been any such hook-ups since the Company's last rate case? If so, how many?
- 53. Same question as immediately above, but this time dealing with hooking up a gas cooking only customer from an existing main.
- 54. Please provide that portion of proposed tariff that details Western's proposed Margin Loss Recovery Rider.
- 55. In Mr. Smith's opinion, would the statement "... any contribution made by a major customer to the Company's fixed costs is better than none ..." be true of only major customers? Or of all customers? Explain.
- 56. Reference Mr. Smith's testimony at page 30, lines 28-30. Please provide the referenced incremental costs, both conceptually and quantitatively, for Western.
- 57. Reference Mr. Smith's testimony at page 31, lines 4-5.
 - a. Please provide Mr. Smith's opnion as to what constitutes an over assignment of fixed joint and common costs to the industrial class.
 - b. Is there such an over assignment in this case? If so, please explain why, and the amount of such over assignment, in Mr. Smith's opinion.

- 58. Please provide the Atmos companies Margin Loss Recovery tariff provisions in their Tennessee, Georgia and South Carolina's operations.
- 59. Reference Mr. Smith's testimony at page 31, lines 18-23. How would the margin from a new industrial customer affect a margin loss adjustment? Explain.
- 60. Reference Mr. Smith's testimony at page 35, lines 6-13.
 - a. Please indicate Mr. Smith's opinion as to the dollar amount for a typical residential heating customer that results in the referenced harm to the customer.
 - b. Please provide the dollar amount for a typical residential heating customer that results in the referenced substantial harm.
- 61. Please provide Western's affiliate, United Cites Gas Company, Tennessee and Georgia's WNA tariff.
- 62. Reference Mr. Ives' testimony at page 3, line 7. What is a cross-class subsidy in the allocation of costs? Explain, and provide the numerical amount of claimed cross-class subsidy in the allocation of costs.
- 63. Reference Mr. Ives' testimony at page 3, lines 28-29. Is Mr. Ives saying here that Mr. Smith is proposing rates that would shift revenue responsibility to the residential class? If not, explain how Mr. Smith is proposing to increase the share of costs allocated to the residential class.
- 64. Reference Mr. Ives' testimony at page 5, lines 9-11. Does Mr. Ives believe that Western administers its current new customers hook-up program so that the new potential consumption and revenue warrants the capital expenditures and makes the investment economically feasible? If yes, please explain the logic Mr. Ives uses in reaching his conclusion.
- 65. Reference Distribution Mains Study, Sheet 7 of 9 (shows minimum system and zerointercept data).
 - a. Explain how it is that the two methods, which are supposed to reveal the customer component of distribution mains can indicate that 78.32 percent of mains costs are customer related on the one hand, and that 22.64 percent of mains costs are customer related on the other hand.
 - b. Please provide the study and workpapers that support the \$49,014,175 customer amount of mains.
 - c. Please provide the set of data points that were regressed to determine the slope in Y A + B * X relationship between pipe size and cost.

- d. Provide all measures of goodness of statistical fit that are calculated in the software package used to regress pipe size and cost.
- 66. Explain the Company's understanding of the theory of how the minimum system concept and the zero-intercept concept reveal the customer component of distribution mains.
- 67. Explain why the Company chose to use the zero-intercept method of determining customer costs of distribution mains rather than the zero-intercept method.
- 68. Reference Mr. Ives' testimony at page 6, lines 3-5. Explain how new residential hookups that result in monetary loss to the Company are consistent with Mr. Ives' testimony at page, 5, lines 9-11.
- 69. Reference Mr. Ives' testimony at page 6, lines 7-10. Please provide a numerical example showing for a given amount of revenue from the proposed charge at Mr. Ives' choosing, the amount that would be credited to plant, the amount that would become a tax expense, the amount of tax expense, and the amount that become return.
- 70. Reference Exhibit DMI-2, Schedule 1 of 2. Please provide information in the same format that is limited to facility investment related only to, or changes between the two-time period solely because, facility investments associated with new customer additions.
- 71. Reference Exhibit DMI-3, Schedule 1. Presumably, since Western's customers are already responsible for the costs of services from the curb or property line to the gasusing structure, the \$906.94 services cost per customer is the cost of the service line from the main to the curb, cub box, or property line. Please explain why it is that the cost of services is about 2.7 times the cost of mains, per customer, as shown on this exhibit.
- 72. Explain why the "return on investment" portion of the proposed premises charge needs to be gross-up for income taxes.
- 73. If Western is not going to depreciate the Excess Investment (Ives' testimony, page 10, line 12), for either book and/or tax purposes, please explain why not.
- 74. Assume, in a two-person world, person A owns the only house and refuses to sell to person B, necessitating that person B build a new house. Further assume that the cost of extending utility service to the new house costs \$100 more than the embedded cost of utility facilities to the already existing house. In Mr. Ives' opinion, who has caused the utility to incur the extra \$100 cost? Please explain.
- 75. Reference Mr. Ives' testimony at page 13, lines 1-2. Is the 10 percent amount a 10 percent per year amount? Or is it a 10 percent of the initial premises charge amount? Other. Please explain, and provide a numerical example within and a numerical example without the 10 percent range.

- 76. Reference Mr. Ives' testimony at page 18, lines 16-20. Please provide workpapers detailing the \$15.44/year and the \$2.4 million amounts.
- 77. Reference DMI-5, Schedule 1 of 2. Provide workpapers detailing the derivation of each the Return of Excess Investment charges and each of the Carry Cost on Excess Investment charges (6, in total) shown in the Demand Charge for Month section of this schedule.
- 78. Reference DMI-5, Schedule 1 of 2. Please show how the annual revenue provided by this rate is sufficient each year, and no more than sufficient, to recover total excess investment, return, taxes on return, and, apparently, taxes on recovery of excess investment.
- 79. If a new hook-up was subject to the proposed premises' charge for 14 years, was sold but vacant for one year, what would be the premises charge responsibility of the new owners? One year? None? Other? Explain.
- 80. How and when would new owners of a re-sold residence subject to a premises charge find out about the applicability of such a charge?
- 81. Are potential investors aware that Western currently does not have a premises charge? If so, explain how such information has not been factored into their decisions as to whether to invest in Western, other utilities, or any other business.
- 82. Reference Exhibit DMI-5, Schedule 1 of 2. Please provide the capitalized O&M expense included in the \$858.15 total excess investment.
- 83. Please provide a demonstration that the proposed pricing scheme for the total excess investment produces the same cost to ratepayers as would tradition Kentucky regulatory treatment of these same excess investment costs.
- 84. For the traditional regulatory treatment assume the total excess investment is allowed into rate base. Qualifying for recovery and return and associated taxes. If the costs to the ratepayer are different, please explain why the costs are different, and provide the annual and total costs to ratepayers under your proposed regulatory scheme for total excess investment and under the traditional regulatory scheme.
- 85. Please provide depreciation rates for mains, services, meters and regulators, all of the types included on Exhibit DMI-1, Schedule 1.
- 86. Assume a mains extension project to hook-up a new customer costs \$750.00. Consistent with Western's Distribution Mains Extension Rules and Regulations, suppose \$500.00 is incurred at no cost to the customer, and Western charges the customer for the extra \$250 cost, plus another, say, \$125 for income taxes. Please provide a balance sheet indicating how the Company's plant accounts would appear before and after this project. Please include account numbers affected by this project.

- 87. Please provide the amounts of contribution in aid of construction booked in 1998.
- 88. Reference Exhibit DMI-3, Schedule 1. Are the total cost of installed units amounts gross plant amounts? Plant amounts net of CIAC? Other? Explain. If the amounts are not gross plant amounts, please provide the itemized additions (by amounts and description) that are necessary to convert the referenced amounts to gross plant amounts.
- 89. Normally, constant capital cost recovery implies a diminishing stream of revenue requirements (costs) over time. Normally, a constant annual payment implies an increasing recovery of capital costs. Your Total Excess Investment cost recovery scheme embodied in your proposed Premises Charge is characterized by both constant prices and constant capital cost recovery. Explain conceptually on how you derived your constant payment/constant cost recovery Premises Charge(s). If the arithmetic of this requested derivation has already been included as part of a response to some other OAG question, please reference that response. If not otherwise provided, please provide the workpapers showing the requested derivation.
- 90. Please provide storage injections and withdrawals on a daily basis for 1998.
- 91. Reference FR 10(9)(v), page 5. Please describe the \$2,009.995 "Other" plant on line 19. Indicate the accounts that house this plant.
- 92. Reference FR 10 (9)(v), page 6. Please describe the \$332,431 A&G, line 3. Indicate the accounts that house this expense.
- 93. Reference FR 10(9)(v), pages 10, 11, 12 and 13. Please provide workpapers showing the derivation of the 2 percent, 98 percent, 64 percent, and 36 percent splits in the various accounts. Explain why the referenced percents are utilized.
- 94. Wherever the Design Day Factor B is utilized in total on in part (as with the P&A factor), please explain why the Design B factor is believed to be appropriate and why the Design A factor was not used.
- 95. Reference FR 10(9)(v), page 19. Please indicate the sources of numbers that total to each individual cost shown in column (a).
- 96. It appears that the Distribution Mains investment is classified customer/demand on the basis of the reported "Regression Minimum" zero-intercept results reported on Sheet 7 of 9 on schedules following your filed class cost of service study. Please confirm this understanding, or explain the basis of your distribution mains customer/demand split, if this understanding is not correct. Provide workpapers if the C/D split is other than as understood and explained herein.
- 97. Reference page 10, lines 23-27, of Mr. Smith's testimony. Please provide the analysis performed by the Company to determine the appropriate weights for each station.

- 98. Reference page 10, line 29 through page 11, line 2 of Mr. Smith's testimony. Please provide a copy of the referenced report for each of the five stations listed on page 10, lines 23-27.
- 99. Please provide the actual annual heating degree days observed during the period 1961-1990 for each of the five stations listed on page 10, lines 23-27.
- 100. Reference page 36 of Mr. Smith's testimony. Please provide illustrative examples complete with calculations separately showing the WNA for the residential heating- and man-heating customers under conditions 10 percent colder and warmer than normal.
- 101. Reference P.S.C. Seventy-First Sheet No. 5. Please explain the basis for the different Expected Gas Cost Component for the various sales rates. Provide copies of documents which show how the various rates are derived and on what basis the differences are justified.
- 102. Reference Mr. Smith's testimony on page 3, lines 3-13. Please provide the average margin per customer by customer class under present and proposed rates.
- 103. Reference Mr. Smith's testimony at page 16, lines 1-2. Please define subsidy as that term is used by Mr. Smith.
- 104. Please explain the circumstances under which Western's discount policy would result in increasing a discount. What economic or other factors have to change to in order for Western to agree to a higher discount?
- 105. Explain which of the circumstances requested in the immediately preceding question changed so that Western's response was to increase discounts by \$800,000? (Mr. Smith's testimony, page 14, line 20.)
- 106. Please explain the circumstances under which Western's discount policy would result in decreasing a discount.
- 107. (Reference Mr. Smith's testimony, page 16, line 20.)
 - a. Cite any reference material that supports Mr. Smith's statement.
 - b. Define margin component as that term is used by Mr. Smith. Please quantify, if possible.
 - c. Please provide the number of Western's special contract customers for which the referenced statement applies. As part of this response, please provide any numerical documentation of how gas costs represent a major component of the special contract customer's costs.

- d. Indicate the impact of the \$800,000 increased discount on the earned return of the affected customer operations in Kentucky.
- e. Specifically, provide gas costs as a percent of total costs for each customer afforded a discount.
- f. For each customer who received a portion of the \$800,000 increased discount, what would the result have been of denying the discount?
- 108. (Reference Mr. Smith's testimony, page 17, line 15.) Please provide the tariff sheets applicable to the 13 referenced customers.
- 109. What is the pipe diameter size of the smallest mains that Western, as a practical matter, installs today?
- 110. How many customers are served from mains of the size requested in the question immediately above?
- 111. Reference Mr. Smith's testimony at page 20, lines 13-15. Cite any authoritative text that supports Mr. Smith's contention that prices that produce above average and below average returns on allocated embedded costs of service are uneconomic price signals.
- 112. Reference Mr. Smith's testimony, pages 29-31. By way of illustrating your proposed Margin Loss Recovery Rider, assume the following for an industrial customer in a test year.

Deliveries 100,000 Mcf Margin15¢/Mcf

- a. In a post-test year, assume deliveries to this customer are 80,000 Mcf and the margin had to be discounted to 10 e/Mcf to avoid bypass. Show the calculations producing the lost margins for this customer.
- b. In a post-test year, assume deliveries to this customer are 200,000 Mcf, and margin had to be discounted to 10¢/Mcf to avoid bypass. Show the calculations producing the lost margins for this customer.
- 113. Reference Mr. Peterson's testimony at page 4, lines 16-21.
 - a. Please provide the footage amount and cost amount of each of the six-inch and eight-inch mains additions that were excluded from your study.
 - b. Explain exactly how the inclusion of the cost per foot of the excluded 6- and 8inch pipes would distort the distribution mains' regression analysis.

- 114. Reference Mr. Peterson's testimony, page 11, lines 3-14.
 - a. Did Mr. Peterson or Western investigate the use of the minimum system methodology for use in this proceeding? If no, why not.
 - b. If the answer to a. is yes, please provide any assembled minimum system cost data, any calculations, and any results of any study of the minimum system methodology performed on the Western system.
- 115. For the ten largest company construction projects to provide service to new customers (as opposed to construction projects related to maintenance) since 1995, please provide the information provided to managers responsible for the approval of such projects.
- 116. Did Mr. Peterson or the Company investigate whether a curvilinear relationship between unit cost and pipe diameter produced a statistically better relationship than a linear relationship? If not, why not? If yes, please provide the study and its results.
- 117. Please have Mr. Peterson describe, based on his understanding of Western's operations and his understanding of local distribution company operations in general, the basic service that the Company provides to its end user sales and transportation customers.
- 118. Please provide a map of the Western natural gas distribution system. Please annotate the map to locate pipeline interconnections, and any LNG or propane or other peak shaving facilities.
- 119.
- a. Please provide a listing of all allocation factors and their numerical values.
- b. Separately for each demand factor, explain what each factor is (e.g., peak demand on design day excluding transmission customers, etc.) and how that factor differs from other demand allocation factors.
- c. Separately for each customer allocation factor, explain what each factor is and how that factor differs from other customer allocation factors.
- 120. For each demand allocator, please state the basis for the amounts of interruptible customer demands included in the allocator. If the interruptible customer demands used to determine the demand allocators are less than the actual interruptible demands during recent peak demands, explain why the smaller demands have been used.
- 121. Please identify the probability of design peak day occurrence for the Company's design peak day criteria. Include supporting workpapers and documentation.
- 122. Please provide a <u>detailed</u> supply and requirements schedule for the Company's three most recent annual peak days, including the 1996-97 winter season. The schedules should include deliveries to meet demands by source (i.e., FTS, contract storage service, on-

system storage, propane, etc. by pipeline rate schedule) and requirements by customer class. Separately identify deliveries and requirements for transportation customers. Also provide the Company's daily sendout sheet for each peak day and the applicable weather data.

- 123. Please provide a summary identifying the salient features of each of the following currently in effect. Salient features include contract party, effective term and applicable contract entitlements (daily, annual, seasonal, etc.).
 - a. All firm transportation and no-notice agreements by type. Indicate whether the capacity is available at the Company's city gate to meet design day requirements or is upstream capacity. Identify the applicable downstream pipeline for each upstream arrangement.
 - b. All storage, gathering and exchange agreements. Indicate if each agreement provides design day capacity at the city gate or requires separate transportation (identify) service to effectuate delivery. <u>Include any on-system storage and peak</u> shaving facilities used by the Company.
 - c. Please reconcile the capacity entitlements identified in subparts a and b with the design day entitlements provided in response to the previous question.
- 124. Please provide a detailed description of the Company's meter testing and change-out program.
- 125. Please identify the bill preparation time required for each rate schedule/customer class reflected in the Company's cost of service study. Include copies of any analyses or studies conducted by the Company examining this issue.
- 126. For each rate schedule/customer class reflected in the Company's cost of service study, please:
 - a. identify the number of meters in service;
 - b. identify the number of times each month the meters of the various rate schedules/customer classes are physically read (i.e., daily, bi-monthly with estimated readings on alternating months); and
 - c. provide copies of any analyses or studies prepared by the Company examining meter reading time requirements by the various classes of customers served.
- 127. Please provide copies of any analyses, studies or documents which identify the frequency of billing inquiries by customer class and the time required to address those inquiries.

128. Please identify:

- a. the O&M account in which costs associated with the Company's account representatives are reflected;
- b. total expenses associated with account representatives; and
- c. the number of representatives servicing or assigned to each particular customer class.
- 129. Please provide actual and weather normalized sales volumes and number of customers by rate schedule for each month from January 1998 through that most recently available. Include supporting normalization workpapers and documentation.
- 130. Please provide actual and weather normalized transportation volumes and number of customers by rate schedule for each month from January 1998 through that most recently available. Include supporting normalization workpapers and documentation.
- 131. Please provide copies of any studies conducted by the Company which examine the effect of transportation customer imbalances on system sales customers' gas costs.
- 132. Please provide a schedule separately identifying all interruptions of transportation or retail sales service on the Western system since 1994 due to capacity constraints on Western's distribution system. Identify the length of interruption, the volumes interrupted, the rate schedule of the interrupted customers, and the area in which interruptions occurred if the interruption was local rather than general on the Western system.
- 133. Please explain how often most of Western's transportation customers generally revise their nominations for deliveries into Western's system by class. Hourly, daily, monthly?
- 134. Please identify the monthly quantity of standby service reserved by transportation customers during the period January 1996 to present.
- 135. Please provide all workpapers, calculations, documentation and studies relied upon or utilized to develop each allocation factor reflected in the Company's cost of service study. Include copies of all computer files on Lotus 1-2-3, Quattro or Excel format.
- 136. Please provide a copy of the Company's cost of service study on computer diskette in Lotus 1-2-3, Quattro or Excel format.
- 137. Please provide copies of all studies and analyses prepared by the Company which examine usage per customer for new homes and converting customers, and the usage per customer for new homes and converting customers with that of present customers.

- 138. List all the different pressures utilized by Western in the operation of its system, and explain the operation of Western's system with respect to change in gas pressures and the reason for the changes in gas pressures.
- 139. For 1966, 1997 and 1998, please provide the following information regarding Western's distribution (gas delivery) system:
 - a. The highest peak day and each classes' contribution to that peak day;
 - b. The non-coincident peak (NCP) by the class and time of occurrence;
 - c. The highest three-day peak and each classes' contribution to that three-day peak;
 - d. Western's design peak day;
 - e. The amount of firm and interruptible load by rate class in the CP and NCP data; and
 - f. A reconciliation of these factors with the demand allocators utilized in Western's gas cost of service study.
- 140. Explain why the GRI R&D Unit charge is not applicable to T-3 and T-4 carriage service, as proposed.
- 141. Will application of the Waiver Provision discretion included in the GRI tariff cause the unit charge to increase for other customers subject to the charge? Explain.
- 142. Why is the DSM surcharge proposed to be applicable only to residential customers?
- 143. If a cost basis is claimed for the application of the DSM surcharge only to the residential rate class, please explain how a residential customer who does not participate in the DSM program is anymore responsible for the incurrence of the DSM costs than a customer in any other class.
- 144. As detailed as possible, describe costs that are incurred by or on behalf of the collaborative process. (Mark's testimony, page 20, lines 5-6.)
- 145. Please provide workpapers detailing the actual and estimated expenses shown on Exhibit MM-2.
- 146. With regard to Mr. Smith's testimony on pages 10-11, please provide all workpapers and supporting documentation showing:
 - a. The development of the weighting percentages assigned to the five NOAA First Order Weather Stations.
 - b. The derivation of the composite normal of 4340 HDDs.

- 147. Please provide a copy of any memoranda, studies, or other written documents which discuss the selection of the appropriate NOAA Stations for purposes of calculating HDDs, the time period to be utilized in defining normal HDDs, and other considerations researched and assessed by Western in consideration of proposing a WNA.
- 148. Please explain in detail how the Company proposes to calculate base load (BL) and the heat sensitive factor (HSF) for purposes of its WNA.
- 149. Please state whether the Company is proposing to determine normal degree days (NDDs) for WNA purposes in the same manner as discussed on pages 10-11 of Mr. Smith's testimony. If not, please explain in detail how Western intends to calculate NDDs for WNA purposes.
- 150. Please identify each rate schedule and billing classification for which Western is proposing to develop a separate Weather Normalization Adjustment Factor (WNA factor).
- 151. Please provide workpapers showing the calculation of the Base Load (BL) for each separate billing classification to which a WNA factor would have applied had the WNA been in effect during the winter of 1998-99.
- 152. Please provide workpapers showing the calculation of the heat sensitive factor (HSF) for each separate billing classification to which a WNA factor would have applied had the WNA been in effect during the winter of 1998-99.
- 153. Please provide workpapers showing the calculation of the weighted average rate (R) of temperature sensitive sales for each separate billing classification to which a WNA factor would have applied had the WNA been in effect during the winter of 1998-99. Show the calculation at both present and proposed rates.
- 154. Please indicate whether it is correct that the same WNA factor would apply to all customers within a given billing classification regardless of their individual usage or other characteristics. If not, please explain.
- 155. Please indicate whether it is correct that the WNA factor will apply to all consumption of each customer in a given month. If not, please explain how the WNA factor will be applied.
- 156. Please state whether the Company has prepared a "backcast" or similar analysis showing the affect which the WNA would have had on monthly revenues during the winter of 1998-99, had it been in place. If yes, please provide a copy of the analysis including all workpapers and supporting documentation. If not, please explain why not and explain how the company verified the reasonableness and accuracy of its proposed WNA.
- 157. For each billing classification to which a WNA factor would have applied had the WNA been in effect during the winter 1998-99, please provide comparison of the actual consumption in each month versus the amount predicted by the formula (BL +(HSF xADD) included in the company's WNA factor.
- 158. Please provide a copy of the tariffs of the United City Gas Company affiliates in Tennessee and Georgia which address those companies' WNA programs.
- 159. Please explain any differences between the WNA which the Company has proposed and the WNAs in effect for its United Cities Gas Company affiliates in Tennessee and Georgia.
- 160. Please identify each of the companies affiliates in other states, indicate whether they have previously sought approval of a WNA or similar mechanism, and state whether such a mechanism was approved, and, if approved, when.
- 161. Please identify the incremental or decremental revenues which the United Cities Gas Company affiliates in Tennessee and in Georgia have realized in each winter heating season since those Companies have implemented their WNAs.
- 162. With reference to page 8, line 13, of Mr. Gruber's testimony, please provide evidence of the declining trend in revenues since 1995.
- 163. With reference to four business initiatives discussed beginning on page 12 of Mr. Gruber's testimony, please provide the following:
 - a. The dates on which each initiative was or will be implemented.
 - b. The total projected (actual, if implemented) investment required for each initiative.
 - c. The annual operating costs included in the forecasted year associated with each initiative (separately list one-time or start-up costs).
 - d. The savings to be derived from each of these initiatives. Differentiate the annual savings from one-time (non-recurring) savings, and identify the savings reflected in the forecasted test year.
 - e. Discuss how the costs and savings from these initiative have been reflected in the cost of service.
- 164. With reference to page 16, lines 10 through 18 of Mr. Gruber's testimony:
 - a. Please provide a listing identifying and describing each of the IT projects, the implementation date, the required investment, the total investment through the most recent date available, and the annual and one-time savings and costs.

- b. With respect to the Y2K and the Oracle expenditures, please identify the forecasted test year amounts and explain how the investment, the annual costs and annual savings have been reflected in the cost of service.
- 165. With respect to the positions eliminated as a result of the Atmos/United Cities merger as discussed on pages 19 and 20 of Mr. Gruber's testimony, were there any costs that are being amortized over more than one period? If so, please identify the costs, the amount included in the forecasted test year cost of service, and the date(s) on which the amortization will end.
- 166. With reference to the Gas Meter Performance Control Program discussed on page 19 of Mr. Gruber's testimony, please identify the "gains" from the program and explain how they have been reflected in the cost of service.
- 167. Please provide copies of all contracts and/or corporate documents between WKG and Shared Services that cover the provision of products and services and the allocation of costs between the two entities.
- 168. With reference to lines 1 through 7 of Mr. Fischer's testimony, please provide the list of services that Shared Services currently provides to WKG, and the list of services that Shared Services is expected to provide during the rate effective period.
- 169. Please provide a workpaper that provides the actual annual charges from Shared Services to WKG from the inception of Shared Services in 1997 through 1998, and the monthly charges for 1999 through the most recent date available. Please indicate any portion of these charges that are charged to non-O&M accounts.
- 170. According to page 7, lines 18 and 19 of Mr. Fischer's testimony, over the next 2 to 3 years increased emphasis will be placed on Shared Services' productivity and improving the quality and prices of its products. Please state what goals or targets have been established for productivity and the quality and pricing of products and services. Also indicate how achievement of these goals has been reflected in the cost of service for WKG.
- 171. With reference to the testimony of Ms. Buchanan at page 4, lines 26 through 30, please provide a workpaper showing the derivation of the capitalization factor used to derive the level of depreciation expense.
- 172. With reference to the discussion on the O&M budgeting process and preparation in Ms. Adams' testimony:
 - a. Please explain how contingencies are handled in the O&M budget preparation. How are the amounts for contingencies derived and monitored? Provide the level of contingencies included in forecasted test year.

- b. In those instances where year-to-date costs and the remaining months' proposed O&M budgets are used as guidelines for the forecasted test year costs, as stated on page 4 of Ms. Adams' testimony, please explain exactly how those amounts are used. Were escalation or inflation rates applied to a base year amount? If so, for the forecasted test year, provide the escalation rates, the base year amounts, and explain how the escalation rates are derived?
- 173. With reference to page 8, line 22 through page 9, line 8 of Ms. Adams' testimony:
 - a. Please provide a workpaper which separately shows the derivation of the \$400,000 increase to fill vacant positions, and the \$290,000 attributable to the 4 percent wage increase.
 - b. For the last five completed fiscal years, please provide an analysis that shows the proposed labor increase included in the O&M budgets and the actual increase granted for each year.
 - c. For the last five completed fiscal years, please provide an analysis that shows the proposed benefits percentage included in the O&M budgets and the actual benefits percentage for each year.
- 174. With reference to the discussion on O&M budget control and monitoring beginning on page 5 of Ms. Adams' testimony:
 - a. During the year, are O&M budgets ever revised after being adopted? If so, please explain the process of revising the budget. Indicate the criteria that would justify a revision to the adopted O&M budget.
 - b. Is there a threshold below which O&M budget variances are evaluated in the manner similar to instances where actual costs exceed the budget by more than 5 percent? If so, please indicate the level of decrease which will trigger such an evaluation.
- 175. Please provide supporting documentation that shows the FY 1999 O&M budget as of March 1999 being on target as stated on page 6, line 20 of Ms. Adams' testimony.
- 176. Please provide copies of all monthly and quarterly O&M budget variance analyses, including variance explanations, for FY 1999 to date. Please provide additional reports as they become available.
- 177. Please provide copies of the quarterly O&M budget variance reports explanations for each year presented in the chart on page 6 of Ms. Adams' testimony.
- 178. Please disclose any changes to WKG budgeting (O&M and capital) and accounting policies that became effective during 1998 and after.

- 179. With reference to Ms. Adams' testimony at page 7, lines 7 and 8:
 - a. Is WKG self-insured for employee medical coverage? If so, please explain how medical insurance costs are recorded and include an explanation of the use of the reserve.
 - b. If medical costs are accrued monthly, please explain how the accrual amount is determined. Include any workpapers that quantify the forecasted test year amount.
 - c. Please identify the level of medical costs included in the forecasted test year cost of service, and explain how they were determined. Include any workpapers that quantify the forecasted test year amount.
- 180. With reference to page 7, lines 23 through 25 of Ms. Adams' testimony, please explain why the September 2000 amounts were used for the first three months of the 2001 fiscal year instead of using the zero based approach of budgeting.
- 181. Please provide workpaper that presents the following annual data for contract labor for FY 1994 through the forecasted test year. Provide actual monthly data for the available months during the base period.
 - a. Number of contractors;
 - b. Total contract labor payroll broken down by O&M, capital and non-O&M accounts; and
 - c. Contract labor overtime payroll broken down by O&M, capital and non-O&M accounts.
- 182. With reference to the discussion on labor beginning on page 8, line 22 of Ms. Adams' testimony:
 - a. Please explain why there would be an increase in O&M payroll costs if the employees hired are replacing contractors who were performing mostly construction activities.
 - b. According to page 8, lines 28 to 30 of Ms. Adams' testimony, the Company "did not budget to reflect a full complement of employees for FY 1999 because we were substituting contract labor for Western's own employees." In response to KPSC 1-69e, it is stated that "[n]one of our planned positions to be filled were previously held by contractors." Please explain the apparent inconsistency in the two statements.
 - c. When did the Company begin its practice of using contractors instead of employees?

- d. Please provide the date on which the Company plans to begin hiring employees to replace contractors.
- e. Please explain how the costs of contractors were removed from the cost of service. Include in your response the amount removed and documentation supporting that amount.
- 183. Please provide a statement that describes the Company's planned use of contractor labor for the forecasted period. Indicate the level of contractor employees and the related O&M and non-O&M costs for the forecasted period, and the amount of contractor labor that the Company plans to eliminate.
- 184. With reference to the communications expense included in the forecasted test year:
 - a. Please provide workpapers and other documentation supporting the \$300,000 increase.
 - b. Please provide an explanation of the reason communications expense was underbudgeted in FY 1999.
 - c. When will the mobile data terminals (MDT) be installed on the Company's vehicles? Are the MDTs replacing other equipment currently being used? If so, please identify the equipment being replaced and show how their costs were removed from the cost of service.
 - d. Please provide an analysis that compares the budgeted communications expense with the actual expense for FY 1999 to date.
- 185. With reference to the \$250,000 increase in uncollectibles, presented on page 9, line 19 of Ms. Adams' testimony, please provide documentation supporting the \$250,000 increase.
- 186. With reference to page 10, lines 3 and 4 of Ms. Adams' testimony, please provide the basis for the 4 percent overall wage increase and supporting documentation for the 23 percent benefits factor.
- 187. With reference to page 10, lines 22 through 23, please provide the annual level of savings associated with Gas Meter Performance Control Program. Include in your response documentation showing the derivation of the savings amount.
- 188. With reference to page 13, lines 13 through 15 of Ms. Adams' testimony, please be specific as to the cost elements that cause the \$172,000 increase in the Shared Services' budget.

- 189. With reference to the discussion on the capital budgeting process in Mr. Doggette's testimony:
 - a. Please explain how contingencies are handled in the preparation of the capital budget. How are the amounts for contingencies derived and monitored?
 - b. Please provide the level of contingencies included in the FY 1999, 2000 and 2001 capital budgets.
 - c. For the FY 1999, 2000 and 2001 capital budgets, please provide a breakdown of the growth and non-growth portions of expenditures.
 - d. What is the overall capital spending goal for FY 1999-2001? Please explain how the capital spending goal is derived.
- 190. With reference to the discussion in Mr. Doggette's testimony relative to the control and monitoring of capital expenditures:
 - a. Please explain whether the spending on any capital projects is affected when other capital projects exceed their approved funding levels. If so, please explain fully how spending on capital projects is interrelated.
 - b. In instances where projects are delayed during a given fiscal year, are the approved funds available for use on other projects? If so, is there is a separate approval process for the shifting of funds? Please explain.
 - c. Please explain the decrease in the capital budget between FY 1997 and FY 1998.
- 191. Please provide copies of all monthly and quarterly budget variance reports on the FY 1999 capital budget available to date. Please provide additional reports as they become available.
- 192. Please provide copies of the quarterly capital budget variance reports with explanations for each year presented in the chart on page 8 of Mr. Doggette's testimony.
- 193. Please explain why a zero-based approach was not used to develop the forecasted test year capital budget.
- 194. Please explain how the Shared Services' capital budget is incorporated in the capital budget presented in Exhibit DHD-1.
- 195. With respect to the development of the Shared Services' capital budget:
 - a. Please provide copies of FY 1999, FY 2000 and FY 2001 capital budgets.

- b. Please provide backup documentation and explain how the budgets for FY 2000 and FY 2001 were derived. If the budgets for those years were developed in a manner similar to the budgets presented in Exhibit DHD-1, provide rates (and supporting documents) used for overheads, maintenance and improvements, price increase.
- c. Please discuss all areas where the controls and monitoring of Shared Services' capital budget differ from WKG's capital budgeting practices.
- 196. For Fiscal Year 1999 most recent date during 1999, please provide an analysis that shows the capital budget, the actual expenditures and the budget variance explanations.
- 197. Please provide the following with respect to WKG's pension expense:
 - a. The pension plan actuarial study used to support the base period pension expense credit amount of \$2,032,245.
 - b. The most recent actuarial study for the pension plan.
 - c. Supporting documentation showing the derivation of the \$2,032,245 credit and budget credit to pension expense of \$853,000.
- 198. With reference to page 7, lines 4 through 7, of Mr. Burman's testimony, does he agree that as a result of those events WKG's customers have prepaid the Company's current pension obligation? If no, please explain.
- 199. Does Mr. Burman agree that by setting the pension expense to zero, WKG will keep all benefits of the pension plan overfunded position? If no, please explain.
- 200. Please provide the level of pension expense included in the cost of service of the Company's last base rate case.
- 201. With reference to FR 10(10)(b)2.2, sheets 4 through 6, please explain why the plant in service schedules for the forecasted period do not include any amounts for retirements. Explain how retirements have been reflected for the forecasted period.
- 202. With reference to FR 10(10)(d)2.2:
 - a. Please explain the cause of the reduction in marketing program expenditures in Adj. 4.
 - b. Please explain the cause of the increase in communication costs and identify what the other minor adjustments are as presented in Adj. 5.
 - c. Please explain the cause of the decrease in outside services in Adj. 6.

- 203. With reference to FR 10(10)(d)2.3, please explain the details relating to the PSC assessment for 1997 which is being paid in 1999. Why is the 1997 assessment being paid in 1999? Are there any interest and penalties related to the 1997 assessment? If so, please provide the forecasted test year amounts and state whether they have been removed from the cost of service.
- 204. With reference to FR 10(10)(f):
 - a. Please confirm whether the membership dues on Schedule F-1 are included in the cost of service.
 - b. Please show how the charitable contributions, country club dues, and employee activity costs on Schedules F-2.1, 2.2 and 2.3 were removed from the cost of service.
 - c. The DSM amount and informational advertising amount on Schedule F-3 are slightly different when compared to the amounts presented on Schedule D-2.2 (Adj. 4 and Adj. 7). Are they supposed to be the same? What accounts for the difference?
 - d. Please show how the selling expense in footnote 5 on Schedule F-3 has been removed from the cost of service.
- 205. Please provide workpapers and supporting documentation for the adjustments presented on Schedules D-2.1, 2.2 and 2.3. Reconcile the amounts presented Schedule on D-2.2 with the amounts discussed on pages 8 and 9 of Ms. Adams' testimony.
- 206. With reference to FR 10(10)(g), please provide workpapers and supporting documentation for the amounts in the Base Period and Forecasted Period columns on Schedules G-2 and G-3. Please reconcile the total payroll amount with the total amount shown in ADJ1 on D-2.2. Are the officers' amounts on Schedule G-3 included in the total payroll on Schedule G-1?
- 207. With reference to FR 10(10)(b)5, please provide workpapers and documentation supporting the derivation of the deferred credits and accumulated deferred income tax balance.
- 208. Please explain how the Company handled postretirement benefits other than pension (SFAS No. 106) expenses for ratemaking purposes. Explain any differences between the ratemaking and financial accounting treatment. Please provide the level of SFAS No. 106 expense included in the forecasted test year cost of service.
- 209. Please provide the actuarial study supporting the base year SFAS No. 106 expense and the most recent SFAS No. 106 actuarial study.

- 210. Please provide a copy of the Company's uncollectibles accounting policy. How is the level of uncollectibles determined? Is it based upon a percentage of accounts receivable or a percentage of sales?
- 211. For FY 1994 through FY 1998, please provide the following:
 - a. Billed revenues subject to uncollectibles;
 - b. Uncollectibles written-off;
 - c. Recoveries of uncollectibles; and
 - d. Uncollectibles expense.
- 212. Please provide the level of any gains or losses received or anticipated on the sale of utility property during the based period through the end of the forecasted test year. Include a description of the property, the dates and the amounts.
- 213. Please provide the level of fines and penalties included in the cost of service for the forecasted period.
- 214. Please identify and provide the level of payments other than membership dues to industry organizations that is included in the forecasted test year cost of service. Include a statement of purpose for each payment.
- 215. Please provide the level of dues paid to the American Gas Association (AGA) and other organizations that are associated with lobbying activities. Indicate whether these costs have been excluded from the cost of service.
- 216. Please provide the level of direct lobbying on behalf of WKG or Atmos Energy Corp. that is included in the forecasted test year cost of service.
- 217. Please list all self-funded or accrued reserves for claims such as injuries and damage, insurance, pensions, etc., and provide the following for the base and forecasted test years:
 - a. the level of monthly or annual accruals;
 - b. actual funds paid out;
 - c. the end of period balance; and
 - d. explain how such reserves have been handled for ratemaking purposes.
- 218. Please separately provide a list of deferred debits and deferred credits for WKG at of the end of the base period and the forecasted test year.

- 219. Please describe all plans the Company may have concerning early retirement, employee severance or corporate restructuring.
- 220. Please provide a copy of all incentive or bonus compensation plans and provide the level of such expense included in the cost of service.
- 221. With reference to the response to KPSC 1-3,
 - a. Please explain whether the future test year expense level for OPEB includes both the pay-as-you-go amount and the accrued (actuarially determined) amount.
 - b. Please provide a worksheet showing the OPEB expense previously allowed in rates; the annual level of total OPEB expense incurred or to be incurred for each year subsequent to rate recovery; the balance in the OPEB reserve account as the end of the future test year related to Western.
- 222. With reference to the response to KPSC 1-8, FY 98 included \$2.2 million of capitalized start-up costs related to service improvements.
 - a. Please explain how startup costs were removed from the capital budgeting process, given that a "bottoms up" approach was not used.
 - b. Please describe the type of costs that are included in the "various" category totaling \$652,000.
- 223. With reference to the response to KPSC 1-9(b), please explain why it is appropriate to use number of customers in determining Western's share for the information technology strategy and Shared Services costs.
- 224. According to Mr. Gruber's testimony beginning on page 12 through page 15, he discusses four initiatives -- the Customer Information System, the Centralized Customer Support Center, the Information Technology Infrastructure and the Business Process Change. He states that those costs are separate from IT costs associated with the Oracle/Orbit system conversion. Please clarify what the IT strategy costs presented in the response to KPSC 1-9(b) are. Specifically, are those costs related to only the four initiatives? Do they include the Oracle/Orbit conversion? Do they include only the Information Technology Infrastructure portion of the four initiatives as mentioned on pages 12 through 15 of Mr. Gruber's testimony?
- 225. With reference to the response to KPSC 1-10, please provide the amounts for Atmos A&G allocation, Western business unit allocation and the total capital budget for FY 96, 97 and 98.
- 226. With reference to the response to KPSC 1-10, please show the derivation 36.25 percent and provide the similar amount and calculation for FY 96, 97 and 98.

- 227. With reference to the response to KPSC 1-16, please explain how Mr. Marks is aware of the Commission's "understanding" of the process to which Western agreed. Provide any documents that delineates the Commission's understanding.
- 228. With reference to the response to KPSC 1-22, please provide a copy of the results (quantification) of the AEG evaluation of the impact of Detroit Edison's low income program on uncollectibles.
- 229. Did Western receive an Order from the Commission authorizing the deferral and recovery of the costs associated with WKG CARES pilot program? If so, please provide a cite for such an authority. If not, please explain why Western did not seek such an order.
- 230. If there is not an Order authorizing deferral and recovery of WKG CARES pilot cost, is it Western's position that a Commission authorization to defer costs is not necessary? Please explain and provide instances where deferral and recovery was allowed without a previous Commission Order authorizing such treatment of costs.
- 231. With reference to the response to KPSC 1-27,
 - a. Please provide a breakdown of the components (weatherization, settlement of arrearages, etc.) of the costs for each year presented in the response to KPSC 1-27(a & c).
 - b. If any pilot costs were incurred and expensed during the base period or included in the forecasted test year, please provide the amounts and state the nature of the costs.
- 232. With reference to the response to KPSC 1-28,
 - a. Does the amounts in the "Expenditures Amount" column represent the actual cost at completion? If not, please explain what those amounts represent.
 - b. For categories other than Retirements & Salvage and Reimbursements, please explain what the other negative costs represent.
- 233. With reference to the response to KPSC 1-34,
 - a. Please explain how the "WKG %" and "WKG \$" for April 1999 through September 1999 were determined, given that the amounts for that period are projected.
 - b. According to the response to KPSC 1-34(b), the "WKG %" for the forecasted test year was determined using the approved WKG allocation percentage as set forth in each SSU's contract with the business units.
 - i. Please provide documentation showing the derivation of the allocation percentages for both the base and forecasted test periods.

- ii. Are the allocation percentages for the forecasted test year the same as used for the April 1999 to September 1999 period? Please explain any differences.
- iii. If not previously addressed, please explain why the allocation percentages differ for the base period and the forecasted period.
- 234. With respect to the response to KPSC 1-40(c), please explain how the KPSC fees are administered. Does the rate assessed change annually? Is the PSC fee a fixed amount assessed on the Company? Why does the tax liability as a percentage of revenues vary from year-to-year?
- 235. With reference to the response KPSC 1-46, please explain the nature of the following items:
 - a. Gilliland Rent I & II
 - b. Alliance Gas
 - c. Ten Alliance Gas
 - d. CIS Project
 - e. Oracle Database Maint
 - f. Monster Board Internet
 - g. Amer Gas Coaling Ctr.
 - h. Southern Gas Association
 - i. American Gas Association
 - j. National Bank of Texas
 - k. Int of Gas Tech

If any items above are for organization membership, please explain what requires prepayment of membership fees.

236. With reference to the response to KPSC 1-63, were any Y2K costs deferred? If so, please provide the level costs included in the forecasted test year expenses and cite the Commission Order authorizing the deferral of the Y2K expenses.

- 237. With reference to the response to KPSC 1-69a, when does Western expect to have the vacant positions filled?
- 238. With reference to the response to KPSC 1-70, do the positions and number of employees listed include contractors employees? If so, please provide the amounts excluding contractors.
- 239. With reference to the response to KPSC 1-71, please show the derivation the forecasted year amount of \$126,168. Include in your response a reconciliation of the \$126,168 to the \$300,000 presented on page 9 of Ms. Adams' testimony.
- 240. With reference to the response to KPSC 1-77, please provide:
 - a. the derivation of the 9,000 average number of meters tested; and
 - b. the source of the \$49.82 and \$24.09 for changing and testing.
- 241. With reference to Schedule C-2.2, please explain:
 - a. the negative amounts recorded during the base period in Account No. 8140;
 - b. the higher level of expenses recorded in Account No. 8560 during October 1998 and September 1999;
 - c. the higher level of expenses recorded in Account No. 8810 from April 1999 through September 1999;
 - d. the higher level of expenses recorded in Account No. 8910 from May 1999 through September 1999;
 - e. the higher level of expenses recorded in Account No. 8940 from March 1999 through September 1999;
 - f. the decreased level of expenses recorded in Account No. 9030 from April 1999 through September 1999;
 - g. the negative expense recorded in Account No. 9040 during November 1998 and June 1999;
 - h. the 37 percent increase in Account 8200 during the forecasted period;
 - i. the 104 percent increase in Account 8210 during the forecasted period;
 - j. the 53 percent increase in Account 8250 during the forecasted period;
 - k. the 142 percent increase in Account 8340 during the forecasted period;

- 1. the 220 percent increase in Account 8350 during the forecasted year;
- m. the 167 percent increase in Account 8360 during the forecasted year;
- n. the 54 percent decrease in Account No. 8500 during the test year;
- o. the 334 percent increase in Account No. 8620 during the forecasted test year;
- p. the 192 percent increase in Account No. 8650 during the forecasted test year;
- q. the 23 percent increase in Account No. 8780 during the forecasted test year;
- r. the 39 percent increase in Account No. 8800 during the forecasted test year;
- s. the 118 percent increase in Account No. 8870 during the forecasted test year;
- t. the 339 percent increase in Account No. 8920 during the forecasted test year;
- u. the 78 percent decrease in Account no. 9030 during the forecasted test year;
- v. the 63 percent decrease in Account No. 9100 during the forecasted test year; and
- w. the 70 percent decrease in Account No. 9250 during the forecasted test year.
- 242. With reference to FR 10(9)(u) Schedule 3, page 3,
 - a. It is indicated that the Business Process Initiatives (BPI) amortization was not budgeted in the forecast period. Please explain what the BPI is, and why the amortization was not included in the forecast period. Were BPI costs included directly on Western books during forecast period? If so, why.
 - b. Please explain the cause of the increase in lease expense. Provide the expected increase amount and workpapers supporting the derivation of the increase.
 - c. Please explain the nature of technology project, the amount included in the forecasted period, and why those costs are no longer capitalized.
 - d. Please identify and explain the nature of the projects that were deferred during the first half of the base period. Include the forecast year amount associated with each project.
 - e. Please explain why transfer agent fees are not capitalized during the forecast period.
 - f. Please provide a listing of positions to be filled, the annual expenses related to those positions and the forecasted period amount.

- g. If the functions of the positions to be filled were being handled by contractors, please provide the number of contractor and the level costs associated with during the base period. If those positions were not filled with contractors, please explain how those job functions were handled.
- h. Please provide the number employees and the number of authorized positions for the Shared Services Unit for 1994 through 1999 year-to-date. Use the format of the response to KPSC 1-70. Include a column showing the level of contractor labor.
- i. Please provide an explanation of the variance related to Treasury, Risk Management and Purchasing.
- 243. With reference to page 7, line 28 through page 8, line 3, please provide a workpaper supporting the conclusion about FY 1999 growth. Also, please update the analysis through the most recent date available.

Respectfully submitted,

A.B. CHANDLER III ATTORNEY GENERAL

David Edward Spenard Assistant Attorney General 1024 Capital Center Drive Frankfort, Kentucky 40601-8204 (502) 696.5457

CERTIFICATE OF SERVICE AND FILING

Counsel hereby certifies that an original and ten (10) photocopies of the foregoing Initial Request for Information by the Attorney General were served and filed by hand delivery to the Hon. Helen C. Helton, Executive Director, Public Service Commission, 730 Schenkel Lane, Frankfort, Kentucky 40601; furthermore, it was served by mailing a true and correct copy of the same, first class postage prepaid, to William J. Senter, Western Kentucky Gas, 2401 New Hartford Road, Owensboro, KY 42303 1312, Mark R. Hutchinson, Sheffer, Hutchinson & Kinney, 115 East Second Street, Owensboro, KY 42303, John N. Hughes, 124 West Todd Street, Frankfort, KY 40601, and Douglas Walther, Atmos Energy Corporation, P.0. Box 650205, Dallas, TX 75265, all on this 19th day of August, 1999.

Daniel Land Land Assistant Attorney General

99-070_IR1



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

August 19, 1999

To: All parties of record

RE: Case No. 99-070

We enclose one attested copy of the Commission's Order in the above case.

Ċ

Sincerely,

Stephanie Bell

Secretary of the Commission

SB/sa Enclosure William J. Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY 42303 1312

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hutchinson Kinney 115 East Second Street Owensboro, KY 42303

Honorable John N. Hughes Attorney for Western KY Gas 124 West Todd Street Frankfort, KY 40601

Mr. Douglas Walther Atmos Energy Corporation

P.O. Box 650205 Dallas, TX 75265

Honorable David E. Spenard

Assistant Attorney General 1024 Capital Center Drive Frankfort, KY 40601 8204

Hon. Robert M. Watt, Hon. J. Mel Camenisch, Jr. STOLL, KEENON & PARK, LLP 201 E. Main Street, Suite 1000 Lexington, KY 40507 1380

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN ADJUSTMENT OF RATES

CASE NO. 99-070

<u>ORDER</u>

)

)

IT IS ORDERED that Western Kentucky Gas Company ("Western") shall file with the Commission the original and 15 copies of the following information, with a copy to all parties of record. The information requested herein is due no later than September 3, 1999. Each copy of the data requested should be placed in a bound volume with each item tabbed. When a number of sheets are required for an item, each sheet should be appropriately indexed, for example, Item 1(a), Sheet 2 of 6. Include with each response the name of the witness who will be responsible for responding to questions relating to the information provided. Careful attention should be given to copied material to ensure that it is legible. Where information requested herein has been previously provided, in the format requested herein, reference may be made to the specific location of said information in responding to this information request. When applicable, the information requested herein should be provided for total company operations and jurisdictional operations, separately. 1. Refer to the response to Item 1 of the Commission's July 16, 1999 Order. Provide the following information concerning WKG Storage, Inc. and Western Kentucky Energy Services, Inc.:

a. Describe the nature of the affiliate's business operations.

b. Indicate when the affiliate was established.

c. Indicate whether any of Western's assets, liabilities, capital, or personnel were transferred to either affiliate.

2. Concerning transactions between Western, Atmos Energy Corporation ("Atmos"), and any other Atmos regulated divisions or non-regulated affiliated subsidiaries:

a. For the base period and the five previous fiscal years, provide a schedule showing the total dollar value of affiliated party transactions between (1) Western and Atmos and (2) Western and all other Atmos affiliates. The schedule should separately identify the affiliate and the total dollar value of that affiliate's transactions for each of the periods requested.

b. For the base period and the five previous fiscal years, provide a description of any transaction between Western and Atmos, or Western and an Atmos affiliate, where the dollar value of the transaction equaled or exceeded \$100,000. Identify which entity was the provider and which was the acquirer. Also, explain in detail how the value of the transaction was determined (cost, fair market value, etc.).

c. Does Western attempt to estimate the dollar level of its affiliate transactions in its budgeting process? If yes, explain in detail how the estimate is determined. If no, explain why this is not done.

-2-

d. For the base period and the five previous fiscal years, provide an analysis comparing the total dollar value of affiliated transactions Western incorporated in its fiscal year budget to the actual amount expended. Include an explanation for any differences between budgeted and actual amounts that exceeded 5 percent.

e. For the forecasted period, provide the total dollar amount of affiliated transactions incorporated into the budget. Explain how Western determined that amount.

3. Refer to the response to Item 3 of the Commission's July 16, 1999 Order. Provide the accounting entries Western normally would make to its books to record its post-retirement employee benefits ("OPEB") during a fiscal year. Identify the account numbers and titles used, as well as a description of each transaction.

4. For the forecasted period, the base period, and the five previous fiscal years, provide the following information concerning Western's OPEBs. In addition, explain how the items requested below were determined for the base and forecasted periods.

a. The amount of OPEB claims incurred and funded.

b. The amount of OPEB claims actuarially determined.

c. The amount of the OPEB liability recorded for each period.

5. Concerning Western's OPEBs, provide citations to the applicable generally accepted accounting principles that support Western's accounting treatment.

6. Refer to the response to Item 3, Sheet 5 of 5, of the Commission's July 16, 1999 Order and the reference to the response to Item 59(b). The response to Item 59(b) appears to deal exclusively with the impacts of weather on Western's customers'

-3-

gas usage. Explain how the average decline in Mcf/year/customer, which apparently is based on this weather-related impact analysis, is indicative of the effects of conservation on Western's gas sales.

7. Refer to the response to Item 9 of the Commission's July 16, 1999 Order. Western has indicated that the approach used to develop the capital budgets submitted in its application was not consistent with the approach normally used. Western has also indicated that it has not performed any analysis or review to determine if the "baseline" forecast approach produces a result similar to the usual "bottom up" approach. Explain in detail how the results of the baseline forecasting approach can be considered reasonable without some verification that the results from this approach are similar to the normal capital budgeting approach utilized by Western.

8. Refer to the response to Item 9(f) of the Commission's July 16, 1999 Order. Explain in detail why an allocation factor based on Western's percentage of customers to the total Atmos customer count is appropriate.

9. Refer to the response to Item 10 of the Commission's July 16, 1999 Order. Western was requested to provide the workpapers and assumptions used to determine that the projected increase in maintenance and improvements should be 36.25 percent for the FY 2000 capital budget. The response does not adequately satisfy the request.

a. Provide the originally requested workpapers and assumptions for the 36.25 percent factor.

b. For the base period and the 10 previous fiscal years, provide an analysis of the actual increase or decrease experienced by Western for maintenance

-4-

and improvements. The analysis should compare the oldest fiscal year to the following year, and continue year-to-year comparisons through the base period.

10. Refer to the response to Item 12 of the Commission's July 16, 1999 Order.

a. Provide the actual capital ratios for Atmos as of April 30, 1999 and June 30, 1999.

b. Provide the actual capital ratios for Atmos as of July 31, 1999;
August 31, 1999; and September 30, 1999. This information will be due on December 1, 1999.

11. Refer to the response to Item 13 of the Commission's July 16, 1999 Order.

a. Explain in detail why, if Atmos's objective is to maintain a capital structure comprised of approximately 50 percent equity and 50 percent debt, it is using a 5-year financial plan which results in equity levels significantly above 50 percent by FY 2002 and FY 2003.

b. Describe the changes in the assumptions for the 5-year financial plan that would be necessary to yield equity percentages for FY 2002 and FY 2003 that are closer to the stated goal of 50 percent.

12. For each of the items listed below, provide the percentage that Western's operations represent compared to the total regulated Atmos operations. This information is to be provided as of the end of the forecasted period, the base period, and the five previous fiscal years.

a. Total number of customers.

b. Total number of employees.

c. Total gas throughput in Mcf.

-5-

d. Total revenues from gas sales and transportation.

e. Total purchased gas costs.

f. Total other operating and maintenance expenses.

g. Total net operating income.

h. Total net income.

13. Refer to the response to Item 14 of the Commission's July 16, 1999 Order.

a. Concerning Item 14(a), provide Western's definition of "normal weather conditions."

b. For FY 1999 to date and the previous 10 fiscal years, indicate whether Atmos experienced normal weather conditions.

c. In how many jurisdictions does an Atmos business unit have in operation a Weather Normalization Adjustment ("WNA") tariff similar to the one proposed in this proceeding? Indicate the percentage of Atmos's total regulated operations impacted by this mechanism. The percentage should be based on total gas sales revenues.

d. In how many jurisdictions does Atmos plan to propose, within the next two fiscal years, a WNA tariff similar to the one proposed in this proceeding? Indicate the percentage of Atmos's total regulated operations that would be impacted if the proposals were adopted. The percentage should be based on total gas sales revenues.

e. Indicate the status of the proposed Universal Shelf Offering discussed in the response to Item 14(b).

-6-

f. Concerning the response to Item 14(d), Atmos has completed five major acquisitions within the past 12 years. Explain in detail why it would not be reasonable to have modeled one additional acquisition in the current 5-year financial plan.

g. Concerning the responses to Items 14(e) and 14(f), it is stated that these items are dependent upon the reasonableness of other assumptions contained in the 5-year financial plan. Does Atmos perform any sensitivity analysis during the development of the 5-year financial plan to evaluate the reasonableness of the assumptions used? If yes, describe this analysis. If no, explain in detail why such an analysis is not performed.

14. Refer to the response to Item 15 of the Commission's July 16, 1999 Order. For the first nine months of FY 1999 and the five previous fiscal years, provide the base stock capital growth associated with the Employee Stock Ownership Plan, the Direct Stock Purchase Plan, and the UCG Plan. Provide the number of shares issued and the dollar increase in Atmos's equity balances associated with these plans.

15. Refer to the response to Item 20(a) of the Commission's July 16, 1999 Order.

a. For each of the recommendations listed in the Executive Summary of the "Process and Impact Evaluation of Western Kentucky Gas WKG CARES Program" ("Evaluation Report"), describe in detail the actions taken by the Western collaborative in response to those recommendations.

b. On page 2 of the Evaluation Report, it is recommended that written contracts be designed and implemented with each of the participating community

-7-

assistance program ("CAP") agencies. Explain in detail why written contracts were not already part of the process when WKG CARES was first established.

c. On page 5 of the Evaluation Report, it is stated that net perparticipant energy savings had been estimated as 16.8 Mcf. It is also stated that the savings related to participants in the program covered the period from November 1996 to September 1997. Explain in detail why the actual level of achieved savings was not calculated or presented in the report. In addition, explain why a full year of program activity was not utilized.

d. On page 12 of the Evaluation Report is a listing of the nine efficiency measures included in the WKG CARES program. Explain why the following programs were included in WKG CARES, even though they failed three of the four standard demand side management ("DSM") cost/benefit screening tests conducted during pre-implementation.

- (1) Wall insulation.
- (2) Floor insulation.
- (3) Water heater replacement/repairs.
- (4) Duct insulation.
- (5) Repair/replace furnace.

e. Explain in detail how Western recorded the funding of WKG CARES during the Evaluation Report review period.

f. On page 17 of the Evaluation Report it is stated that at least 10 percent of all homes that have been weatherized using WKG CARES funds are

-8-

inspected. Explain why only 10 percent are inspected and how the level of inspections was determined.

g. Refer to page 30 of the Evaluation Report. A review of the information presented in Table IV.1 shows that while the Bluegrass Community Action Agency had approximately 3 percent of the total WKG CARES participants, it represented 10 percent of the home surveys. The Pennyrile Allied Community Action Agency had approximately 33 percent of the WKG CARES participants, but represented only 24 percent of the home surveys. Explain in detail why these situations occurred and why the home survey sampling approach did not result in a distribution of the home survey that more closely matched the actual participant distributions by CAP agency.

h. If the home surveys were conducted in conjunction with an evaluation of WKG CARES, explain why it was necessary to include questions concerning customer satisfaction with Western as the customer's service provider.

i. On page 38 of the Evaluation Report is a continuation of bullet point observations from the home surveys. Reconcile the last two bullet points on page 38 with the results shown on Table IV.4 on page 33.

j. Beginning on page 42 of the Evaluation Report is a discussion of how a statistical billing analysis was used to estimate the change in annual Mcf consumption for a sample of program participants and non-participants. Explain in detail why the evaluation did not compare actual customer usage prior to, during, and after the program review period to determine the actual energy savings.

-9-

k. Explain how the data used in the Princeton Scorekeeping Methodology ("PRISM") was weather normalized. Specifically state what time period was used to determine "normal" weather.

I. Western has stated in its data responses that the winters of 1996 and 1997 were generally normal. If that is the case, explain why the data for the PRISM analysis had to be weather normalized.

m. Provide a schedule showing the <u>actual</u> Mcf usage for each of the 114 participants and the 112 non-participants for these time periods: November 1995 through October 1996; November 1996 through September 1997; and April 1997 through March 1998. Reference numbers should be used rather than customer names. The data should not be weather normalized.

n. Define the phrase "naturally-occurring reduction in consumption" as it is used on page 55 of the Evaluation Report. Also, explain in detail why such an adjustment was needed in the development of the net energy savings.

o. Explain what the phrase "environmental damage associated with the consumption of natural gas" means as it is used on page 55 of the Evaluation Report.

p. Explain why an environmental damage factor for natural gas obtained from the Minnesota Department of Public Service was included in the cost/benefit testing analysis. Include with the explanation a discussion of why a factor based on Minnesota's experience is applicable to Kentucky.

q. Provide the material referenced in Appendix A – Bill Stuffer of the Evaluation Report.

-10-

16. Refer to the response to Item 20(c) of the Commission's July 16, 1999 Order. The request asked why actual customer savings were not developed as part of the impact evaluation. The testimony cited in the response states that "net perparticipant energy savings has been <u>estimated</u>" (emphasis added), while pages 45 through 48 of the Evaluation Report contain references to "estimated reads were combined with subsequent actual reads," "normalized annual consumption estimates were developed for each of the program participants," and "net energy savings estimates were developed." While the analysis may have started with actual consumption data, the Evaluation Report makes it clear that the reported customer savings were estimated. Provide the information originally requested.

17. Refer to the response to Item 27 of the Commission's July 16, 1999 Order. The response indicates that Western expensed all DSM pilot costs. However, the account numbers listed for the schedule of pilot program costs are all miscellaneous deferred debit accounts.

a. Indicate the account number(s) used to show these expenses on Western's income statement.

b. Provide a sample accounting entry made to Western's books to record a DSM pilot program cost.

c. Explain in detail why, if the DSM pilot costs were expensed, the accounts identified in this response are miscellaneous deferred debit accounts.

18. Refer to the response to Item 28 of the Commission's July 16, 1999 Order. Provide the same information as was supplied in this response for the capital projects for fiscal years 1989 through 1993 ("FY89-FY93 Period").

-11-

19. Provide the following information for each of the capital projects included in the response to Item 28 of the Commission's July 16, 1999 Order and the response Western will be providing for capital projects in the FY89-FY93 Period:

a. For each project included where the responses show a reference of "Deferred," explain why the project was deferred, when the project was next included in a capital projects budget, and when it was actually constructed.

b. For each project included where the responses show a budgeted amount and no expenditure amount, but was not referenced as deferred, explain why no expenditures were made on the project. Indicate when expenditures were made on those projects.

c. For each project included where the responses show expenditures but no budgeted amount, explain the situation that required capital expenditures where none were budgeted.

d. For each project included in the responses, prepare a schedule showing the month and year for the following dates:

- (1) Budgeted project starting date.
- (2) Budgeted project ending date.
- (3) Actual project starting date.
- (4) Actual project ending date.

e. Using the project information contained in the responses, prepare a summary by fiscal year that shows the following:

(1) The total number of capital projects.

(2) The number of capital projects that were completed ahead of schedule.

(3) The number of capital projects that were completed on schedule.

(4) The number of capital projects that were completed behind schedule.

20. Refer to the responses to Items 28 and 29 of the Commission's July 16, 1999 Order. The response to Item 28 indicates Western's historic capital projects completion percentage ranged between 80.2 percent and 112.4 percent. Given this historic information, explain in detail why it is reasonable to assume that all capital projects included in the forecasted test year capital budget will be completed by the end of the forecasted test year.

21. Refer to the response to Item 35 of the Commission's July 16, 1999 Order. The response provides the link between the capital budget projects shown in Volume 3 of 10, Tab 1, Exhibit DHD-1 with Volume 10 of 10, Tab 2, Schedule B-2.2. However, this link applies only to the grand totals from Exhibit DHD-1. A link between the additions to a particular plant account cannot readily be established.

a. For pages 1 through 4 of 6 of Exhibit DHD-1, provide a summary for each page listing the additions by plant account number, rather than budget categories. Retain the column titles showing the expenditure classifications for each page. Also show how the amounts for retirements and public works reimbursements are allocated to the particular plant accounts.

-13-

b. For any asset account shown on Schedule B-2.2, for either the base period or forecasted period, explain in detail why the addition shown does not match the plant account summary provided in response to part (a) above.

22. For each of the estimated months contained in the base period and for the entire forecasted period, explain in detail how it was determined when the particular amount of plant addition would be recognized in the plant account. Also, provide a schedule showing by month the amount of plant addition by plant account number.

23. Refer to the response to Item 37 of the Commission's July 16, 1999 Order.

a. Provide a detailed explanation as to how the accumulated depreciation amounts were allocated to the individual 300 series account numbers, for both the base and forecasted test periods. Include all assumptions, the basis for the allocations, calculations, and supporting workpapers used to determine the amounts. This should be done for both the original Schedule B-3 filed, as well as the revision included in the response to Item 37.

b. Provide a schedule showing Western's utility plant in service, accumulated depreciation, and proposed depreciation expense adjustment by classes of assets, for both the base and forecasted test periods. If any class of asset appears to be over-depreciated, include a detailed explanation for what has occurred or is occurring within that plant classification.

c. Explain in detail the nature of the errors made by Western when originally preparing Schedule B-3.

24. Refer to the response to Item 39(a) of the Commission's July 16, 1999 Order.

-14-

a. For each of the consultants listed in the response, provide a description of the areas of the rate case on which the consultant worked.

b. Describe the nature of the employee expenses that total \$13,274.

c. Describe the nature of the labor expense of \$452.

d. Provide a description of the services received from the Lukens Consulting Group, Inc. for the period April through June 1999.

e. Concerning the work performed by Utility and Economic Consulting, Inc., explain why entries for the following dates were determined to be related to this rate case: October 20, 1998 (entire day); November 20, 1998; December 18, 1998; December 23, 1998; March 1, 1999; and April 20, 1999.

f. Explain why the invoice from the law firm of Ward & Anderson, P.C. was included as a rate case expense.

25. Refer to the response to Item 43(c) of the Commission's July 16, 1999 Order.

a. Explain why there was a balance remaining in Western's FY 1998 overhead Account 1070.

b. Explain why it was appropriate to apply the remaining overhead balance from FY 1998 to FY 1999 capital expenditures.

c. Does Western anticipate that there will be a remaining balance in its overhead accounts for FY 1999? Explain the response.

d. For each of the 10 previous fiscal years, indicate whether Western had a balance remaining in its overhead accounts, and describe how any remaining balance was cleared.

-15-

26. Refer to the response to Item 45(c) of the Commission's July 16, 1999 Order. Explain what Western means by "recapitalized" and why the Division 09 annual reserve computation will be expensed.

27. Refer to the response to Item 46 of the Commission's July 16, 1999 Order. Explain why the PSC Assessment is considered by Western to be a prepayment. Also explain why Western believes it should be allowed to earn a return on its PSC Assessment.

28. Refer to the response to Item 46 of the Commission's July 16, 1999 Order. For each of the items listed below, describe the nature of the item and explain why Western believes it should be allowed to earn a return on the item.

- a. Division 09 Alliance Gas.
- b. Division 09 Tennessee Alliance Gas.
- c. Division 02 American Gas Cooling Center.
- d. Division 02 Southern Gas Association.
- e. Division 02 American Gas Association.
- f. Division 02 Nation Bank of Texas.
- g. Division 02 Int. of Gas Tech.

29. Refer to Schedule DAM-5 of the Direct Testimony of Donald A. Murray. Provide the time period used to obtain the figures in the last three columns of the chart.

30. Refer to Schedule DAM-10 of the Direct Testimony of Donald A. Murray. This chart uses two separate estimates for Earnings Per Share ("EPS") growth rates. Explain why the Value Line EPS estimates are used to calculate the High cost of capital and the Standard & Poor's ("S&P") EPS estimates are used to calculate the Low cost of capital, as opposed to using the exact method for calculating cost of capital used in Schedule DAM-9. (If the exact method were to be used, Schedule DAM-10 would have a High and Low cost of capital calculation using the Value Line EPS growth rate estimates and a separate but similar calculation using the S&P EPS growth rate estimates.)

31. Refer to Schedule DAM-15 of the Direct Testimony of Donald A. Murray. Explain why the figures comparing Discounted Cash Flow ("DCF") results for dividend and earnings growth do not come from sets of calculations consistent across time. In other words, explain why DCF results for Dividend growth rates come from Schedules DAM-6 and DAM-7 and why DCF results for Earnings growth rates come from Schedules DAM-10 and FSM-11.

32. Refer to Schedule DAM-16 of the Direct Testimony of Donald A. Murray.

a. Explain the time period used for this table.

b. Explain the source or derivation of the figures in column (1), Market Total Returns.

c. Explain why Western used Long Term Corporate Bonds Return as a risk free rate in column (2), as opposed to a federal government bond rate.

d. Explain why it is appropriate to use 6.10 percent in the calculation of the Cost of Equity in Schedule DAM-16, but not appropriate in the similar calculation in Schedule DAM-17.

e. Explain why the Equity Risk Premium in column (3) is different from that used in column (3) in Schedule DAM-17.

-17-

f. Explain why Western uses the Long Term Bond return of 6.10 percent in the calculation of the Risk Premium, but uses the Aaa Corporate Bond Return to calculate the Cost of Equity.

33. Refer to Schedule DAM-17 of the Direct Testimony of Donald A. Murray.

a. Explain the time period used for this table. If it is not the same as the time period used in Schedule DAM-16, provide an explanation for why a different time period was used.

b. Explain the source of the Risk Free Return figure in column (1).

c. Explain the source and derivation of the Equity Risk Premium figures in column (3).

d. Comparing the Equity Risk Premiums in columns (3) of both Schedules DAM-16 and DAM-17, the difference between these sets of figures (1.20%) is greater than the difference between the Risk Free Returns, column (2) in Schedule DAM-16 (6.10 percent) and column (1) in Schedule DAM-17 (5.81 percent). This implies that a different Market Total Return figure is used in Schedule DAM-17 than that used in Schedule DAM-16. The implied Market Total Return in Schedule DAM-17 is 13.81 percent compared to 15.30 percent in Schedule DAM-16. If not explained previously, explain this apparent difference in usage of Market Total Returns.

e. Explain the source and derivation of the Size Premium, column (5). Also, explain why similar adjustments are made for some companies, and not others.

34. Refer to the Direct Testimony of Donald A. Murray. At page 19 of the testimony, Dr. Murray discusses the reasons for making an adjustment to the historical CAP-M calculation to account for Atmos's small size relative to other companies.

-18-
a. Explain why a size premium was added to all of the companies.

b. If investors attribute additional risk to relatively smaller companies and everything else being equal, shouldn't the Cost of Equity calculations be higher in Schedule DAM-17 than in Schedule DAM-16? Explain why the Cost of Equity declines with Western's size adjustment.

c. How common is the use of a size premium in other regulatory jurisdictions?

35. Refer to the response to Item 60(a) of the Commission's July 16, 1999 Order. In what ways should the Commission allow for the risk of short-term interest rate increase? By incrementally increasing the allowed return on equity? By adjusting the short-term interest cost? Explain thoroughly.

36. Western not being a stand-alone company explains, in part, the proposal to use Atmos's capital structure as the capital structure to be used to determine Western's cost of capital. If it is beneficial to Western to be part of the Atmos system and have Atmos raise capital for Western's operations, explain why the issue of whether or not Western would have a higher cost of capital as a stand-alone company is relevant.

37. By utility and jurisdiction, identify all Atmos operating divisions that presently have: (1) WNA tariffs; (2) Premises Charges; or (3) Margin Loss Recovery Mechanisms.

38. All other things being equal, explain whether reducing the volatility in revenues and earnings tends to lower the risk of a financial investment from the point of view of an investor.

-19-

39. Provide a definition and/or explanation that differentiates business risk from financial risk.

40. Refer to Schedule DAM-22 of the Direct Testimony of Donald A. Murray. Explain how Dr. Murray determined the recommended range on page 22 of his Direct Testimony using the variety of calculated returns on equity. Provide workpapers.

41. Refer to the Direct Testimony of John W. Hack at pages 2-3.

a. Provide the most recent Request for Proposal ("RFP") issued by the Gas Supply Department on behalf of Western and the list of potential vendors to whom it was sent.

b. Provide a thorough description of the bid selection process employed by Atmos/Western after receiving the responses to this most recent RFP.

42. Refer to the Testimony of John W. Hack at page 4 regarding Western's supply source arrangements.

a. The testimony refers to a "Natural Gas Sales, Transportation, and Storage Agreement" with Reliant Energy Services. Has there been any change in that arrangement since the time Mr. Hack's testimony was filed?

b. Provide a detailed description of any changes to that arrangement that have occurred since the filing of Mr. Hack's Testimony.

43. Refer to the Direct Testimony of Gary L. Smith at pages 34-38 and the response to Item 48 of the Commission's July 16, 1999 Order.

a. The reference to the WNA tariff of Columbia Gas of Kentucky ("Columbia") does not refer to the fact that the Commission initially approved Columbia's

-20-

WNA tariff as a three-year pilot. Was Western aware that Columbia's WNA tariff was implemented as a pilot program?

b. There are some differences between Western's proposed WNA tariff and Columbia's WNA tariff. Did Western give any consideration to proposing its WNA tariff as a pilot program?

c. Provide any reasons for why Western would be opposed to having its proposed WNA tariff implemented on a pilot basis.

44. Refer to the Direct Testimony of Gary L. Smith at pages 7-8.

a. The testimony indicates that "through March 1999, Western's total average monthly meters in service have increased by 2,132 over the same period in FY 1998." Does the number 2,132 represent all meters for all customer classes?

b. Provide a breakdown of the 2,132 increase in meters by customer classification.

c. Provide the comparable numbers reflecting the average increase in monthly meters in service, by customer class, for the periods ended December 1998 and June 1999.

45. Refer to the Testimony of Gary L. Smith at pages 11-12 and the response to Item 58 of the Commission's July 16, 1999 Order.

a. Provide a more detailed description and further explanation of the differences in the ways that Western uses its financial statistics and its marketing reports for purposes of tracking customer growth.

-21-

b. Provide a detailed explanation of how the revised forecasted growth of 1,700 residential customers shown in the testimony was derived.

c. Provide a summary of the analysis referred to on page 12 of the testimony for commercial and public authority customers that resulted in the revised growth rate of 230 for commercial customers.

46. Refer to Item 58(a) of the response to Commission's July 16, 1999 Order.

a. In the same format used in the response to Item 58(a), provide an update that includes two additional columns: one for fiscal year 1998 and one for the 12 months ended June 30, 1999.

b. The response included "actual sales and transportation volumes, by class, in Mcf"; however, the request was that the volumes be provided adjusted for normal weather. Provide a second version of the update requested in part (a.) with the volumes adjusted for normal weather for each of the five periods..

47. Refer to Exhibits GLS-1 and GLS-7 in the Direct Testimony of Gary L. Smith.

a. Explain the increase of \$84,884 in the negative revenue adjustment for "additional contract reformation" as shown on line 33 of the two exhibits. Provide any necessary calculations.

b. Provide the calculations, along with a narrative explanation, showing how the gas cost revenues of \$77,522,158 were derived.

c. Provide a breakdown, by customer, of the adjusted volumes of 13,332,103 Mcf and revenues of \$1,692,428 for "Total Special Contracts." This does not require identifying customers. Reference to Customer No. 1, No. 2, etc. will suffice.

-22-

48. Refer to Exhibits GLS-1, GLS-5, and GLS-7 of the Direct Testimony of Gary L. Smith.

a. Exhibits GLS-1 and GLS-7 show 6,281 as the increased number of commercial bills related to the customer growth forecast. Exhibit GLS-5, which summarizes the customer growth forecast adjustment, includes 6,210 as the increased number of commercial bills. Identify which is the correct number.

b. Provide the calculations, along with a narrative explanation, of how the Mcf volumes in Exhibit GLS-5 resulting from the customer growth forecast were derived for each customer class.

49. Refer to Exhibit GLS-6 of the Direct Testimony of Gary L. Smith. Provide the calculations, along with a narrative description, of how the Mcf volume reductions resulting from residential and commercial conservation and energy efficiency measures were derived.

50. Refer to the Direct Testimony of Gary L. Smith and the response to Item 59(b) of the Commission's July 16, 1999 Order.

a. Define what customer actions Western includes in its references to conservation effects.

b. Has Western conducted any surveys or studies in an attempt to determine the specific actions or measures customers have undertaken that have caused the decline in usage? If yes, provide the results and a narrative description of Western's analysis of the results. If no, explain why such surveys of studies have not been conducted.

-23-

c. Has Western attempted to quantify the impact of improved appliance efficiency and technological innovations in equipment when examining its declining sales volumes? If yes, provide the results of that analysis. If no, explain why Western has not considered the impacts of these factors.

d. Has Western been able to determine what portion of the decline in usage is due to normal occurrences such as: (1) newer, better insulated homes equipped with more efficient energy-using appliances accounting for a larger percentage of its total customer base; (2) naturally occurring replacement of older, less efficient appliances with newer, more efficient appliances; and (3) reduced usage per customer due to changing demographics, such as smaller household size and increases in multi-family residences as a percentage of total residences?

51. Refer to the response to Item 50 of the Commission's July 15, 1999 Order.

a. Many of the gas distribution companies regulated by the Commission that make quarterly Gas Cost Adjustment ("GCA") filings have tariff provisions that permit out-of-time filings when such filings are warranted. These provisions provide the flexibility to respond to significant gas supply cost changes. Would Western be able and agreeable to operating under a similar tariff provision?

b. While this rate application is pending, Western will continue to make monthly GCA filings, with the last filing prior to the end of the suspension period being due in early January of 2000 with rates to be effective February 1, 2000. Assuming this case stays on schedule, would Western be able to convert to a quarterly filing schedule after the conclusion of this proceeding with its first quarterly filing on April 1, 2000 for rates to be effective May 1, 2000? If not, explain why.

-24-

52. Refer to the response to Item 51 of the Commission's July 16, 1999 Order.

a. Provide copies of the orders from the Tennessee, Georgia, and South Carolina commissions in which the respective sharing ratios were established for another Atmos business unit.

b. The special contracts Western currently has produce average margins of less than \$.13 per Mcf. Discounts from tariff rates in the form of "additional contract reformation" exceed \$1 million. How much of Western's load (in Mcf) not already served at less than tariff rates is subject to competition or possible bypass? How much net revenue was generated from these loads during fiscal year 1998?

c. The proposed tariff rider does not include a starting point, or base amount, reflecting the margins, or net revenues, derived from the loads already served at less than tariff rates or those loads served at tariff rates that are subject to competition or possible bypass. If a base level, or starting point, from which to measure the "margin losses" is not included in the tariff, explain why such an omission will not result in an immediate loss calculation based on the proposed formula.

d. Based on the revenues from existing contracts, discounts and rate flexes, along with the revenues from loads that could be subject to less than tariff rates in the future, provide the total dollar amount of margins, or net revenues, for the forecast period that would reflect the type of base level, or starting point, described in part (c.) of this request.

e. Historically, between rate cases, Western's shareholders have been at risk for 100 percent of lost margins due to competition, bypass, etc. and Western, in response to competitive circumstances, has had to make rate concessions

-25-

in several instances. Explain how having shareholders at risk for only 10 percent of lost margins will provide Western an incentive to maximize the revenues from its special contract, alternative fuel, and potential bypass customers.

53. Refer to Item 52 of the response to the Commission's July 16, 1999 Order.

a. Under the transition schedules for the pipelines when would Western began collecting Gas Research Institute (GRI") surcharges from its customers?

b. How does Western intend to notify the Commission that it will begin to make such collections?

c. GRI is involved in numerous research and development activities. Provide the most recent GRI annual report that details its activities and its levels of expenditures.

54. Refer to Item 54 of the response to the Commission's July 16, 1999 Order.

a. Explain how the amount of \$77.57 million in "Total Annual Residential Revenue, proposed margins," was reduced to \$61.66 million in "Approximate Residential Margins, 11 months."

b. Provide an explanation for the use of 11 months and 10 percent in the derivation of the estimate of \$308,304 as the amount to be generated annually from the proposed late payment charge.

55. Refer to the Direct Testimony of Daniel Ives and the response to Item 56 of the Commission's July 16, 1999 Order.

-26-

a. The specific items of plant involved in new service installations are mains, meters, services, and regulators. For which of these items does Western expect the economic life to be shorter than the physical life? Explain why.

b. For each of these four plant items, provide the lives Western is presently using for purposes of calculating its per books depreciation.

c. Provide the calculation used to derive the pre-tax rate of return shown on Exhibit DMI-5, Schedule 1 of 2.

d. Provide schedules, in the same formats as Exhibit DMI-5, Schedules 1 and 2, showing the carrying costs and resulting premises charges based on recovery periods of 240, 300, and 360 months.

e. Provide the calculations, along with a narrative explanation, of the "Facilities Adjustment Charge" of \$15.44 per year for all residential customers that Mr. Ives suggests Western be allowed to implement if the Commission rejects the proposed premises charge.

56. Refer to the Direct Testimony of David H. Doggette and the response to Item 57 of the Commission's July 16, 1999 Order.

a. The survey of banks in Exhibit DHD-2 was limited to eight local banks. Explain how these particular banks were selected for the survey.

b. Considering how widespread Western's service territory is, why was the survey limited to eight "local banks"?

c. The proposed returned check charge is based on the premise that Western incurs an administrative charge for processing bad checks similar to the

-27-

returned check charges imposed by the banks. What attempt has Western made to determine the actual level of costs it incurs to handle and process bad checks?

d. Has Western determined, or attempted to determine, the margin, or mark-up above their costs, that the banks include in their returned check charges?

e. The proposed Seasonal Turn-on Charge is not cost-based but is intended as a disincentive to customers disconnecting from the system on a seasonal basis. Explain why such a charge requires a higher "after hours" rate similar to those special charges that are cost-based.

57. Refer to the Direct Testimony of Betty L. Adams and the response to Item 67 of the Commission's July 16, 1999 Order. Refer to the response identified as DR 67(f), sheet 1 of 2, compared with the response identified as DR 67(g), Schedule C-2.1, Sheet 4 of 10. The base period amount of "Shared Services Billing" on DR 67(f) of \$10,003,000 does not correspond with Administrative Services Transferred on DR 67(g), Schedule C-2.1, Sheet 4 of 10, Account 922, in the amount of \$9,050,095. The amounts provided for the forecasted year on DR 67(f), Sheet 2 of 2, and DR 67(g), Schedule C-2.1, Sheet 9 of 10, Account 922 are in agreement. Explain and reconcile the differences in amounts for the base period.

58. Refer to Volume 10 of 10 of the Application, Tabs 3 and 5, the Direct Testimony of Rebecca M. Buchannan, and FR 10(10)(c)2, Schedule C-2, and FR 10(10)(e), Schedule E.

a. Explain why the State and Federal Income Tax on Schedule E for the base period is mathematically correct, but does not agree to the Income Taxes for Base Year Revenue and Expenses on Schedule C-2.

-28-

b. If FR 10(10)(c)2, Schedule C-2 as originally filed in the application would be different if presented on the basis of FERC accounts, resubmit Schedule C-2 based on FERC accounts.

c. Provide calculations to support the income tax for the columns titled Base Year Revenue & Expenses, Utility Budget Adjustments, SSU Billing Adjustments, Forecasted Revenue & Expenses, and Ratemaking Adjustments on FR 10(10)(c)2, Schedule C-2.

59. Refer to the Direct Testimony of Betty L. Adams and the response to Item 68 of the Commission's July 16, 1999 Order. Included with this response are comparisons of budget to actual year-to-date reports for FY 1998, 1997, 1996, 1995 and 1994 referenced as "RESP-10." These reports contain data for only 11 costs or "element groups."

a. Are the costs or "element groups" on these budget reports broken down further on other budget to actual comparison reports?

b. If yes, provide these reports for FY 1998 and for the months-to-date since then with a cumulative total beginning October 1998 through the most recently completed month of accounting records. Also, provide a brief explanation of all variances, both favorable and unfavorable, for the lesser of \$5,000 or 5 percent.

c. If yes, provide a schedule combining the year-to-date actual per the RESP-10, the Shared Services Billing, depreciation, and any other costs to determine operating and maintenance expense for FY 1998 and for the months-to-date with a cumulative total beginning October 1998 through the most recently completed month of accounting records.

-29-

d. If no, explain in detail how Western monitors the underlying account element data for accuracy in budgeting. Also, what form of variance analysis does Western use for management reporting? Provide this variance analysis for FY 1998, 1997, 1996, 1995, and 1994 or such periods as are referenced in subpart "b."

60. Refer to the Direct Testimony of Betty L. Adams and the response to Item 68 of the Commission's July 16, 1999 Order.

a. Since authorized employees have exceeded actual employees every year from 1994 through 1998, explain the basis for including 100 percent of authorized employees for rate-making purposes in the forecasted period.

b. What measures does Western propose to use in filling the 15 open positions that are shown when comparing the Testimony of Conrad E. Gruber and the response to Item 62 or the Commission July 16, 1999 Order, which reflects a total of 267 employees compared to the forecasted level of 282?

c. What are the expected benefits from the addition of the planned operating and maintenance employees that Western's customers will receive that they have not been receiving?

61. Refer to Volume 4 of 10 of the Application, Tab 4, FR 10(9)(m), and the Direct Testimony of Donald P. Berman. In the NARUC accounts individual elements of functional expense are shown in the chart of accounts at FR 10(9)(m) as follows: directors retirement benefits, service awards; employee incentives; meals & entertainment; membership fees; community relations & trade shows; and sports activities:

-30-

a. Are any amounts for the above individual elements of functional expenses included in the base period or forecasted period?

b. If yes, provide the amounts for both the base period and forecasted period as applicable, and explain why these types of expenses should be recoverable for rate-making purposes.

c. If no, explain why these types of expenses are included as "above the line accounts" in the chart of accounts.

62. Does Western's bottom-up budget process for the annual operating and maintenance budget include providing budgeting personnel with any reports comparing, for instance, the most recently completed fiscal year budgeted amounts and actual results, as well as the present operating budget, for a reference point in establishing a new budget?

a. If yes, provide such completed documentation from the "element group" account level for FY 1999, 1998, 1997, 1996 and 1995.

b. If no, explain in detail what reports management uses to evaluate the budget for accuracy of inputs, and provide documentation in the way of comparative reports from the "element group" account level for FY 1999, 1998, 1997, 1996 and 1995.

c. If no comparative reports are available from the budgetary input process, explain in detail how Western's budget process can be relied upon for accuracy, evaluation of trends and other analysis for periods past the immediate budget period.

63. Does Shared Service's bottom-up budget process for the annual operating budget include providing budgeting personnel any reports comparing, for instance, the

-31-

most recently completed fiscal year budgeted amounts and actual results, as well as the present operating budget, for a reference point in establishing a new budget?

a. If yes, provide such completed documentation from the most detailed account level for FY 1999, 1998, 1997, 1996 and 1995.

b. If no, explain in detail what reports management uses to evaluate the budget for accuracy of inputs, and provide documentation in the way of comparative reports from the most detailed account level for FY 1999, 1998, 1997, 1996 and 1995.

c. If no comparative reports are available from the budgetary input process explain in detail how Shared Service's budget process can be relied upon for accuracy, evaluation of trends and other analysis for periods past the immediate budget period.

64. Refer to the Direct Testimony of Betty L. Adams and the response to Item 72(a) of the Commission's July 16, 1999 Order.

a. Does Western's response that its billing system prior to June 1, 1999 did not provide accounts receivable aging mean that management did not otherwise have an aging schedule created for periodic evaluation of revenue collectibility?

(1) If yes, provide a detailed explanation of how Western determined the uncollectible accounts to write off?

(2) If no, provide any aging schedules created for the FY 1998 and 1997, with an explanation of any coding identifying customer classes.

-32-

(3) Provide a detailed explanation of Western's uncollectible account determination policy, with procedures on how accounts 60, 90, or 120 days and older are pursued for recovery.

b. Provide monthly accounts receivable aging schedules since June 1,
 1999 and monthly uncollectibles written off for those months' activity.

c. Provide the calculation supporting the derivation of the 0.4 percent of revenue factor used in the gross revenue conversion factor at Volume 10 of 10 of the Application, Tab 8, FR 10(10)(h), Schedule H. Include support for the combination of uncollectibles and revenue from different customer classes in determining a composite factor.

65. Refer to the Direct Testimony of Betty L. Adams and the response to Item 83(a) of the Commission's July 16, 1999 Order.

a. Provide a summary of Shared Services "Combined Direct & Billed" total monthly expenses as allocated by division on the exhibit in the response to Item 83(a), "April's Financial Statements," bottom of the page marked "(32)." Prepare this summary for fiscal year 1998 and for the months since then with a cumulative total beginning October 1998 through the most recently completed month of accounting records.

b. Are any non-regulatory expenses allocated to regulated divisions or any regulatory expenses allocated to non-regulated divisions? If so, explain the reasons for the allocations and the allocation processes.

66. Refer to Volume 10 of the Application, Tab 3, FR 10(10)(c)2.1, and the Direct Testimony of Rebecca M. Buchannan.

-33-

a. For NARUC account 923, outside services employed, provide a schedule of actual and projected expenses by vendor that exceed \$7,500 directly paid or billed to Western, or allocated by Shared Services. Give a brief explanation of the service to be provided.

b. For NARUC account 925, injuries and damages, provide a schedule of actual and projected expenses beginning with total workers compensation, then by vendor, that exceed \$10,000 directly paid or billed to Western, or allocated by Shared Services. Give a brief explanation of the expenditure, other than the amount of workers compensation.

67. Refer to Volume 10 of the Application, Tab 4, FR 10(10)(d)2.2, Schedule D-2.2 and the Direct Testimony of Betty L. Adams. The explanation for "ADJ 1," budgeting adjustment, includes "an adjustment of the credit for pension due to FASB 87 in the base year." Is this a result of an accounting method change? If yes, explain the change. If no, is it similar to the "Ratemaking Adjustment" on FR 10(10)(c)2, Schedule C-2, in Volume 10 of the Application, in the amount of \$771,992 referenced to Schedule F-2.3? Are these adjustments duplicated in both the base period and forecasted period?

68. Refer to the Direct Testimony of Donald P. Berman. Provide Atmos's or Western's most recent actuarial report for its pension plan.

69. The response to Item 47(f) of the Commission's July 16, 1999 Order indicated that Western would require more time to prepare an adequate response. The supplemental response filed August 13, 1999 indicated that progress was being made, but that additional time would be required, and that substantial time and analyses had

-34-

been required to develop the cost-of-service study based upon the future test period. The Commission renews the original request and further requests that all underlying worksheets for the development of the forecasted inputs and other analyses discussed in the supplemental response be supplied no later than the due date of this request.

70. Refer to the Direct Testimony of Thomas H. Petersen and the response to Item 47(i) of the Commission's July 16, 1999 Order. Many of the notes describing the functionalization and classification processes within the model seem to represent assumptions based upon historic precedent and industry knowledge. What analysis has Western undertaken currently or during recent cases to validate that the assumptions used as inputs to the cost-of-service study are reasonable? Has Western completed any analyses to validate the sensitivity of these judgmental inputs? Provide any such analyses. If no analyses have been completed, how can the Commission be assured that the results of the cost-of- service model are reasonable?

71. Provide the summary pages of the cost-of-service model assuming the "minimum system" method had been incorporated rather than the "zero intercept" method for both the historic period and the forecasted period. Describe what changes are necessary to implement this change.

72. Provide a reconciliation of the volume units and dollar amounts used by the financial, rate design and cost-of-service witnesses for the unadjusted historic test period, the adjusted historic test period, and the forecasted test period.

73. Refer to the response to Item 47(g) of the Commission's July 16, 1999 Order. Provide a detailed breakdown of the amount for "Other Revenue" of \$1,094,414

-35-

shown on Sheet 6 of 9 of the functional allocations attached to the cost-of-service analysis utilizing proposed rates.

74. Refer to the response to Item 47(e) of the Commission's July 16, 1999 Order. Western states that the allocation could be applied to differing numbers of customer classes and/or differing customer sizes within customer classes, albeit requiring significant analysis. Has Western completed such an analysis? If so, provide the results. If not, what assurances can be given that the current customer classifications are the most optimal?

Done at Frankfort, Kentucky, this 19th day of August, 1999.

By the Commission

ATTEST

Executive Director

JOHN N. HUGHES



Attorney at Law Professional Service Corporation 124 WEST TODD STREET FRANKFORT, KENTUCKY 40601

Telephone: (502) 227-7270

August 18, 1999



Telecopier: (502) 875-7059

Ms. Helen Helton Executive Director Kentucky Public Service Commission 730 Schenkel Lane Frankfort, KY 40602

Re: Case No. 99-070

Dear Ms. Helton:

In an effort to continue to provide the Commission and Staff with the most current and detailed information available, Western is supplementing its responses to items 6, 10, 12, 19, 23, 24d, 25, 42c, and 71 to the Commission's initial data request. Copies of the responses have been mailed to the intervenors.

If there are any questions about this matter or if additional information is needed, please contact me.

Sincerely yours,

Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265

Mark R. Hutchinson SHEFFER - HUTCHINSON KINNEY

115 E. Second St.

Owensboro, KY 42303 olin N. Hughes

X24 West Todd Street Frankfort, KY 40601

Attorneys for Western Western Kentucky Gas Company



Data Request:

Refer to the Application, Volume 2 of 10, Tab 1, the Testimony of Conrad E. Gruber. On pages 12 through 18 of the testimony is a discussion of Western's efficiency and productivity improvements. Explain in detail how the benefits of these efficiency and productivity improvements have been incorporated into Western's forecasted period. Include a dollar quantification of the improvements and identify where this quantification has been shown in the forecasted period.

Response:

Exhibits A, B and C show that Western's investment in the various efficiency and the productivity improvements has already produced real and significant savings and will continue to produce savings well beyond the forecasted test period Exhibit A, "WKG O&M Costs", presents a comparison of Western's total O&M spending for FY1998-FY2004. Exhibit B, "WKG O&M Cost Trend", plots the information in Exhibit A. Exhibit C, "Annual O&M Savings", quantifies the annual savings associated with these improvements.

್ಷೇಟ

-22

Э.

. 3.

With the seven year period is that the total level of O&M spending for the seven year period is the seven State 1987 166.4M. It also shows that total O&M spending in FY2000 and beyond is projected by the state of the Western to remain steady at around \$24.3M. Teason -

is a consistent of the Exhibit A also compares the O&M spending presented by Western in this conversion and the application to two different projections of O&M costs assuming "business as usual" spending practices trended off of FY1997 actual spending. The first scenario projects Western's spending for FY1998-FY2004 using the actual and forecasted growth rates associated with Gross Domestic Product (source: Federal Reserve Bank of St. Louis). The second scenario reflects a more conservative growth rate of 3.5%, which

> approximates the average annual rate of growth in Western's O&M expenses from FY1995 to FY1997. In comparison to either scenario, Western's O&M spending as filed in this case is much less than either of the "business as usual" scenarios. Western calculates the difference between Western's filed O&M spending versus the "business as usual" scenarios as savings of \$32.1M (GDP Growth) or \$25.2M (3.5% Growth).

Benefits of Western's Service and Productivity Investments

The benefits of Western's efficiency and productivity improvements is discussed at length in Mr. Gruber's testimony. The primary benefit of the improvements is that Western has leveraged technology to produce O&M cost savings. Exhibit B shows that

Western has reduced its O&M costs in the short run (FY1998-FY1999) and will flatten its O&M costs over the long term (FY2000-FY2004). That is, O&M savings began in FY1998-FY1999 concurrent with the introduction of these improvements by Western.

Exhibit C indicates that, in comparison to the more conservative growth rate scenario, Western will have saved its customers \$5.1M, or approximately \$2.6M per year, prior to the inclusion of Western's investment in these programs in rate base. In the forecasted years, the annual O&M savings resulting from these improvements is projected to increase each year from FY2000 to FY2004.

Mr. Gruber's testimony on page 6 discusses that Western's O&M costs will have grown approximately ½ of 1 percent per year from FY1994 to FY2000. As a result of the efficiency and productivity improvements begun by Western in FY1998 & FY1999, Western is projecting an even lower O&M cost growth rate of approximately 0.0% through FY2004. Supplemental Response to DR 6 Exhibit A

WKG O&M Costs

1. 13

(\$ millions)

	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL	S
GDP Growth	23.8	25.1	26.1	27.1	28.2	29.3	30.5	32.2		198.5
3.5% Growth	23.8	24.6	25.5	26.4	27.3	28.3	29.3	30.3	191.6	
WKG O&M COSTS	23.8	<u>21.5</u>	23.5	24.2	24.3	24.3	24.3	24.3	<u>166.4</u>	166.4
Savings from GDP	L	3.6	2.6	2.9	3.9	5.0	6.2	7.9	6	32.1
Savings from 3.5%		3.1	2.0	2.2	3.0	4.0	5.0	6.0	\$ 25.2	

O&M SAVINGS VS GDP GROWTH

\$25,200,000

O&M SAVINGS VS 3.5% GROWTH

\$32,100,000

Supplemental Response to DR 6 Exhibit B

WKG O&M Cost Trend



Supplemental Response to DR 6 Exhibit C

Annual O&M Savings



Million Per Year



Western Kentucky Gas Company Case No. 99-070 KPSC Data Request Dated July 16, 1999 Supplemental Response to DR Item 10 Witness: David H. Doggette

Data Request:

Refer to the Application, Volume 2 of 10, Tab 5, Exhibit DHD-1, page 2 of 6. Provide the workpapers and assumptions used to determine that the projected overhead rate should be 50 percent and the projected increase in maintenance and improvements should be 36.25 percent for the FY 2000 capital budget. Include an explanation as to how these determinations were made.

Response:

The 50 percent overhead rate was based on a review of Atmos' Administrative & General (A&G) overhead dollars and Western's business unit overhead dollars for the FY 1999. The Atmos A & G allocation was \$1,106,000 and the Western business unit allocation was \$1,840,000. Which when added to Western's direct capital expenditures for FY 1999 results in a total capital budget of \$8,408,000. The FY 1999 overhead rate is therefore 53%, hence a similar rate of 50% was applied for overheads in FY 2000. Past prudent management practices during abnormal weather periods has afforded WKG the opportunity to defer but perhaps not avoid certain non-safety-related projects. Therefore, to maintain system integrity and reliability WKG foresees the need to increase out maintenance and system improvement spending to reflect current system requirements. The requirements are identified as:

Shelbyville Main Replacement - Direct costs: \$128,500

Bowling Green Main Replacement - Direct costs: \$52,000

Bowling Green State Street Replacement - Direct costs: \$70,000

Bowling Green State Street/Adams Street Replacement - Direct Costs: \$60,000

Owensboro Walnut Street Replacement - Direct costs: \$27,500

WKG also anticipates approximately \$63,000 of additional blanket retirements and approximately \$10,000 of additional transmission line leakage repair. The above-identified costs represents 36.25 percent of the FY 1999 system maintenance budget.



Western Kentucky Gas Company Case No. 99-070 KPSC Data Request Dated July 16, 1999 Supplemental Response to DR Item 12 Witness: Reddy

Data Request:

Provide the actual capital ratios for Atmos as of June 30, 1999.

Response:

Atmos actual capital ratios as of June 30, 1999 are as follows:

	(\$000)	
Long-term Debt*	Amount \$399.607	$\frac{\text{Percent}}{43.85\%}$
Short-term Debt	\$110,228	12.10%
Shareholders' Equity	\$401,378	44.05%
Total	\$911,213	<u>100.00%</u>

*Includes current maturities portion of long-term debt.



Western Kentucky Gas Company Case No. 99-070 KPSC Data Request Dated July 16, 1999 Supplemental Response to DR Item 19 Witness: Marks

Data Request:

Refer to the Marks Testimony, page 8. It is stated that the TRC test measures the costs and benefits of a conservation measure from the broadest perspective as it represents the net benefit to society. Isn't it correct that the TRC calculates the net impact on a utility and its customer base as a whole, instead of as a net benefit to society? If no, provide documentation to support the contention that the focus of the TRC is the net benefit to society.

Response:

No. The supporting documentation is provided in the attachment to the response to DR 20 h.

The TRC Test is interpreted as the Societal Test without externalities. In fact, we chose in the evaluation report for the Collaborative to call the TRC test the "Societal Test excluding externality adder". I regret any confusion that this may have caused.



Western Kentucky Gas Company Case No. 99-070 KPSC Data Request Dated July 16, 1999 Supplemental Response to DR Item 23 Witness: Marks

Data Request:

Provide copies of all program materials associated with WKG CARES, including the program parameters established regarding the allowable program measures.

Response:

See attachment to DR 18 entitled, "Pre-Implementation Benefit/Cost Screening Results."



Data Request:

Provide the following information concerning WKG CARES:

d. Describe the extent to which WKG CARES programs are available, affordable, and useful to all customers.

Response:

· .

and the second second

The WKG CARES programs are available for use by low-income WKG customers. As noted in Exhibit MM-2, the proposed rate will cost about \$.25 per month for each residential customer. The prospective annual program expense of \$200,000 equates to spending which is less than 0.3% of the normalized annual bill for all residential customers. This amount seems affordable. That the programs are useful to all customers is demonstrated by the positive TRC benefit/cost ration. See Response to DR 20a - Appendix F on pages 4-5 in the attachment entitled "Process and Impact Evaluation of Western Kentucky Gas WKG CARES Program".

. . . .

and the second second

د و الارتيان - و الما العلم الما الم

. .



Western Kentucky Gas Company Case No. 99-070 KPSC Data Request Dated July 16, 1999 Supplemental Response to DR Item 25 Witness: Smith & Marks

Data Request:

Given the provisions of KRS 278.285, explain in detail why Western waited until the filing of this rate proceeding to recover the costs for WKG CARES, which began in 1996.

Response:

KRS 278.285 provides no specific guidance regarding the time period over which DSM program costs may be collected. It merely provides that the issue may be addressed as part of a proceeding for approval of new rate schedules or in a separate proceeding which would be limited to a review of demand-side management and associated rate recovery issues.

This was Western's first DSM program. Western believed it was necessary for the program to produce data upon which to base a filing for rate recovery. Western indicated this intention in its letter responding to Mr. Mills in November 1996. The WKG CARES process and impact evaluation report was not available until the timeframe during which the decision to file this rate proceeding was made. The WKG CARES program began in late November 1996. The first full winter heating season to provide information for the process and impact evaluation report did not end until spring of 1998. The report was completed in July 1998 and presented to the Collaborative in September 1998. Since the decision to file this rate proceeding was made shortly thereafter, it was decided that this filing was the best way to address the issue of WKG CARES cost recovery.

Copies of the Mr. Mills' letter and Western's response from Mr. Boyd are attached.



COMMONWEALTH OF KENTUCKY PUBLIC SERVICE COMMISSION 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

October 30, 1996

achment to Supplemental Response to DR Item 25, 1 of 2

> NOV 1996 RECEIVED

Mr. Earl Fischer President Western Kentucky Gas Company 2401 New Hartford Road P.O. Box 866 Owensboro, Kentucky 42302

Dear Mr. Fischer:

The state of the second second second

On October 20, 1995 the Commission approved a unanimous settlement agreement that resolved the issues in Case No. 95-010, Western's last general rate case. One of the provisions of that agreement was that Western would initiate a pilot DSM program directed toward its low income customers. Western agreed to work with a collaborative group and to fund the pilot program for three years at an amount up to \$450,000 per year. Western also agreed, that if feasible, the program would be initiated in time for the 1996 heating season.

It has been a year since the Commision's Order and the 1996 heating season is upon us. Also, Western has yet to file an application for cost recovery of DSM programs pursuant to KRS 278.285. We request, therefore, that you respond to this letter with a status report on Western's DSM activities and its DSM collaborative. The Commission is interested in the current status of Western's efforts to develop possible programs and whether a general timetable exists for when Western expects to have programs in place and/or make a filing with the Commission for recovery of DSM program costs.

Please respond within two weeks of receipt of this letter. If you have any questions regarding this request please contact Jeff Shaw of the Commission Staff at (502) 564-3940.

Sincerely,

Don Mills, Executive Director

cc: Lee Allen Everett Atmos Energy Corporation Western <u>K</u>entucky Gas Company

November 15, 1996

Honorable Don Mills Kentucky Public Service Commission 730 Schenkel Lane Frankfort, KY 40602

RE: Your Inquiry dated October 20, 1995

Attach

Supplemental Response to

WESTERN KENTUCKY

たまなといれたいというたいとないななまで

DR Item 25, 2 of 2

Dear Mr. Mills:

Thank you for your interest in the progress of Western Kentucky Gas Company's ("Western") demand-side management ("DSM") activitics. Western has been involved in DSM related activities contemplated in the unanimous settlement agreement in Case No. 95-010 since December of 1995. Our goal, which is a consistent with the settlement agreement, has been to implement a menue of residential customer DSM programs in time for the 1996 heating season. We have succeeded in developing several programs, through the collaborative efforts of the settlement parties and we are on the threshold of implementing the program, which collectively are called the Community Action Residential Energy Service ("CARES") in mid November 1996. We believe benefits from this program could be realized by some customers as early as December 1, 1996, which corresponds to the beginning for the heating season. Attached is a progress report of our efforts.

Your letter noted that Western has not filed an application for cost recovery of DSM program costs pursuant to KRS 278.285you are correct. We presently plan to wait until the "CARES" program produces some data upon which to base a filing. To assist in this effort the "CARES" Collaborative Executive Committee (which consists of representatives from the Attorney General's office, Kentucky Division of Energy, Kentucky Association for Community Action, Community Aid Legal Services and Western) retained the service of Hampton Strategies, Inc... Hampton is an experienced expert in evaluating DSM programs, and is planning to evaluate the program data in the Spring of 1998. We intend to file for cost recovery at the appropriate time, based on Hampton's recommendations.

Incidentally, the CARES collaborative is pushing for a press release announcing the beginning of the program within the next ten (10) days. You or a member of your staff are welcome to attend future meetings of the Collaborative. Again, thank you for your interest. If you have any questions, please contact me directly at (972) 788-3754.

Sincerely,

Manager, Regulatory Affairs & Compliance

Enclosures P.O. Box 650205 Dallas, Texas 75265-0205 214-934-9227



Western Kentucky Gas Company Case No. 99-070 KPSC Data Request Dated July 16, 1999 Supplemental Response to DR Item 42c Witness: Buchanan

Data Request:

42. Refer to the Application, Volume 10 of 10, Tab 15, Summary of Factors schedule, referenced as "WP Factors." Concerning the calculation of the Residual Factor:

c. Explain why it is reasonable to base the Residual Factor on the Western to Atmos ratios for Gross Direct PP&E, Average Number of Customers, and Total O&M Expense.

Response:

c. The residual factor used by Atmos is a modified Massachusetts formula. It is used to allocate the General Plant related items (plant and accumulated depreciation) of Division 02 General Office to the business units of Atmos. The three part allocator alleviates the inequities that can occur if only one of the components is used as an allocator. Gross plant, average customers and O&M expenses are a better reflection of the types of functions provided by the General Office (also known as Shared Services). The General Plant assets of Division 02 are used in conjunction with providing these "shared services" to the business units. (Some examples of the functions performed by the General Office Division 02 are Gas Control, Billing & Remittance, and Investor Relations. A complete listing of the Shared Services functions is provided in FR 10(9)(u), Volume 9, tab 2).

For an extensive discussion of allocations and the use of a residual factor, please refer to the direct testimony of Mr. Arthur L. Litke who testified on behalf of Western Kentucky Gas Company in Case No. 90-013. A copy of Mr. Litke's testimony is attached as "Attachment to DR Item 42c, pages 1-17".

Attachments to DR Item 42c, pages 1-17.

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

IN THE MATTER)
RATE ADJUSTMENT OF)
WESTERN KENTUCKY GAS COMPANY)

1

3

6

0

In D

5

19

20

Co. Phone Fax # ID:

CASE NO. 90-013

JUL 27'99

≤52 - No

P.01

TESTIMONY OF ARTHUR L. LITKE

Please state your name, employment, and business address. Q. Α. My name is Arthur L. Litke and I am Senior Vice President of the consulting firm H. Zinder & Associates, 1828 L Street, N. W., Washington, D.C. 20036. Please summarize your education and business experience. Ο. I received a B.S. degree in economics in 1944 from Trinity Α. College and an MBA degree in 1947 from the Wharton School ost-it" of Finance and Commerce, University of Pennsylvania. I Fax did postgraduate work at George Washington University Law Note School during the 1948-1953 period, and I attended the Advanced Management Program at the Harvard University 7671 Graduate School of Business Administration in 1961.

Since 1966, I have taught various accounting courses at Catholic, George Washington, and Georgetown Universities as a professor in accounting. I also taught the regulatory accounting section of the National Association of Regulatory Utility Commissioner's Short Course in 1971 and 1972. During the period 1973-1983, T was a member of the Board of Nominations for the Accounting Hall of Fame at Ohio State University.

My professional affiliations include the American 1 Arbitration Association, the American Accountants 2 Association, the American Institute of Certified Public 2 Accountants, where I served on the auditing procedures and ₫ technical standards committees; the District of Columbia 5 Institute of Certified Public Accountants, the Association б of Government Accountants, where I served as national 7 president; and the International Consortium on Government 8 Financial Management, where I served as president. I am a 9 Certified Public Accountant in the State of North Carolina. 10 From 1964 to 1973, I was the Chief Accountant of the 11 12 Federal Power Commission (now the Federal Energy Regulatory Commission). In this position I was the 13. principal advisor and consultant to the Commission for 14 15 accounting, financial, and statistical matters. Further, tell6's second was responsible for all of the activities in the 17 Area of Accounting and Finance, which 18 and included accounting, auditing, depreciation studies, and 19 · statistics and finance, including rate of return -10 activities. I was also a member of the 1973 and 1978 21 Natural Gas Survey and the 1973 National Power Supply 22 Update.

23 During the period 1973-1978, I was an original member 24 of the Financial Accounting Standards Board. The Board, 25 which consists of seven full-time members, establishes 26 financial accounting and reporting standards for the 27 private sector. The same standards are generally followed

- 2 -

by regulatory agencies and regulated companies.

1

53 No.003_P.03

In 1978, I served as an Associate Administrator, 2 Economic Regulatory Administration, Department of Energy. 3 For the period 1978-1981, I served as a consultant to the 1 Comptroller General of the United States on regulatory 5 matters. During this period I also served on the National ć Association of Regulatory Utility Commissioners 7 Subcommittee of Staff Experts on Accounting. Since ð leaving the General Accounting Office I have been employed 9 by H. Zinder & Associates. 10

I have published numerous articles on regulatory
 accounting matters, the most recent being a chapter on
 regulated industries in the Burton, Palmer and Kay
 <u>Handbook of Accounting and Auditing published in 1981 by</u>
 Warren, Gorham and Lamont.

What is the purpose of your testimony in this case? 16 · Q. Atmos Energy Corporation/Western Kentucky Gas (Atmos) 17 Α. requested my (1) opinion as to whether the allocation 18 methodology used by Atmos to allocate its corporate 10 services costs to Western is reasonable and would result 20 in a fair allocation of costs, and (2) comments on Mr. 21 Thomas C. DeWard's specific recommendation "D" that a 22. complete audit be performed at the corporate level before 23 any increase in corporate charges to Western be approved 24 25 by the Public Service Commission.

26 Q. What is your conclusion?

- 3 -
| | - | | JUL 27'99 |) / |
|------|------------|---------------------------------|-------------------------------|-----|
| - | - · · | | | |
| 1 | -A. | - Although my review was limite | d by time constraints, I | |
| 2 | 2 | believe the allocation method | ology used by Atmos gives a | |
| 3 | 3 | reasonable result. | - | |
| 4 | Q. | What do Atmos' corporate serv: | ice costs represent? | |
| 5 | А. | All costs of operating the hea | adquarters of Atmos amounting | |
| 6 | i | to \$15,324,309 of which \$4,74 | 5,168 or 31 percent were | |
| 7 | | allocated to Western. | | |
| 8 | Q., | How should such costs be allo | cated? | |
| 9 | Α. | In all cases where a causal re | elationship can be shown, the | |
| 10 | • | expenses should be directly as | ssigned to a specific | |
| . 11 | | product, function, segment or | company. Direct assignment | |
| 12 | م ي | is the most widely used method | d for allocation of service | |
| 13 | t.f⊈ | costs. When direct assignment | t is not feasible, homogenous | |
| 1.4 | ŕ . | costs are assigned to a cost p | pool and allocated to | |
| 15 | | activities on a cause and effe | ect basis such as usage for | |
| 16 | | computer operations. Remaining | ng expenses not assigned on | |
| . 17 | | the above basis are referred t | to as residual expenses and | • |
| 18 | • . • | are allocated on a variety of | basis. | • |
| 19 | ۰Q. | How are these residual expense | es allocated? | |
| 20 | Α. | There are a wide variety of al | llocation methods, including | |
| 21 | | sales revenues, gross plant, c | cost of sales, cost input, | |
| 22 | | direct labor expense, payroll | expense, employee | |
| 23 | | head-count, value added, produ | uction costs, and formulas | |
| 24 | | consisting of two or more fact | tors. | |
| 25 | ۵. | Is the method allocating resid | dual expenses important? | |
| 26 | Α. | Yes, it is very important. Th | he amount of these costs | |

-

÷....

55 No.003 P.05

allocated to a specific company or activity can be profoundly affected by the allocation method selected. In this case, the residual expenses must be fairly allocated to the various activities of Atmos. Otherwise, the costs and profits of these various activities will be mistated. Some activities will bear an unjust burden, and other companies will be undercharged.

ID:

-1

2

3

5

8 Q. Are the same allocation percentages derived for all Atmos
9 companies in this filing used in other regulatory
10 jurisdictions by Atmos?

I have been informed by Atmos that the same percentages 11 . Α. are used in the other jurisdictions in which Atmos 12 activities are regulated i.e., Texas and Louisiana. 13 Because over 90 percent of Atmos' activities are regulated 14 little, if any, benefit accrues to Atmos if one activity 15 has a larger percentage assigned to it because the other 16 regulated companies will likely be allocated a smaller 17 18. percentage.

Q. Are specific allocations methods for these types of costs
 prescribed by regulatory agencies?

21 A. Generally not.

22 Q. Based on your experience at the Federal Power Commission
23 (now the Federal Energy Regulatory Commission) what does
24 that Commission require?

25 A. The FERC Uniform System of Accounts does not specify any
26 single appropriate allocation method for these expenses.
27 As a matter of practice, however, the FERC accounting

- 5 -

staff requires that the expenses be directly assigned to a
 particular company (or activity) whenever possible. Any
 remaining or residual expenses may be allocated. The
 allocation method selected by a company is generally
 accepted so long as the end-result is reasonable.
 Have any of the accounting standards bodies made any
 pronouncements on the subject of allocating residual
 expenses?

ID:

Yes. The Cost Accounting Standards Board (CASB) issued a 9 Α. Cost Accounting Standard (CAS) in 1972 on the allocation 10 : of Home Office Expenses to Segments - CAS 403, 4 CFR 280. 11 A home office is defined as "an office responsible for 12 directing or managing two or more, but not necessarily 13.5 all, segments of an organization. It typically 14 establishes policy for, and provides guidance to, the 15 💚 segments in their operations. It usually performs 16 management, supervisory, or administrative functions, and 17. may also perform service functions in support of the 18 operations of the various segments." 19

20 Q. What is the CASB?

A. The CASB was established by Public Law 91-379 and was
organized in January 1971. It issued 19 cost accounting
standards before funding for its operation ceased in
September 1980. Funding was reinstated in 1988 and the
CASB resumed its operation, although in a different mode.
The Board's standards do, however, remain in force and

- 6 -

must be used by certain federal agencies and defense contractors.

Q. Please describe CAS 403 - Allocation of Home Office Expenses to Segments - together with its rationale.
A. Before describing CAS 403, I would like to point out that the results reached were attained after extensive research, public comment and due deliberation of a professionally qualified body established by Congress to specifically consider appropriate cost accounting matters. Although the CASB's authority only technically extended to negotiated defense contracts, the reasoning behind CAS 403 is clearly applicable to other similar situations.

CAS 403 was established to resolve continuing 14 15 problems concerning the equitable allocation of home office expenses to the various segments involved in 16 negotiated defense contracts. The standard requires that 17 home office expenses be directly assigned on a beneficial 18 19 or causal basis to the maximum extent practicable. The 20 standard also provides for the assembly of certain costs 21 in logical and homogenous pools to be assigned on certain specified bases. Those expenses which have not been 22 23 assigned and generally relate to managing the 24 organization as a whole are categorized as residual 25 expenses.

According to the standard, residual expenses are to
 be allocated on the basis of a three-factor formula. The

- 7 -

ID:

2

3

1

5

6

7

8

9

10

11

12

13

· -

-

1 -	standard	states_that (4 CFR 284);
2	(c)(.	1)This formula is considered to result in
. 3	appro	opriate allocations of the residual expenses of
4	home	offices. It takes into account three broad
5	area	s of management concern: the employees of the
6	orgai	nization, the business volume, and the capital
ne galer in die de gebeurg 7	inve	sted in the organization. The percentage of the
B	resid	dual expenses to be allocated to any segment
3	pursi	ant to the three factor formula is the
10	arith	nmetical average of the following three
. 11	perce	entages for the same period:
12	(i)	The percentage of the segment's payroll
13		dollars to the total payroll dollars of
14		all segments.
15	(ii)	The percentage of the segment's
16	: .	operating revenue to the total operating
1.7		revenue of all segments. For this
18	•	purpose, the operating revenue of any
19		segment shall include amounts charged to
20		other segments and shall be reduced by
21		amounnts charged by other segments for
22		purchases.
23	(iii)	The percentage of the average net book
24		value of the sum of the segment's
25		tangible capital assets plus inventories
25 (26		to the total average net book value of
20		such assets of all segments. Property

- 8 -

held primarily for leasing to others shall be excluded from the computation. The average net book value shall be the average of the net book value at the beginning of the organization's fiscal year and the net book value at the end of the year.

ID:

1

2

3

4

5

6

7

In explaining its reasoning, the Board stated that it 8 has concluded that where the amount of residual expenses 9 are material, a single allocation formula should be used 10 by all contractors. The Board also stated that the 11. three-factor formula is the preferred method for such 12 allocation. The Board specifically found that (4 CFR 289): 13 The use of the three factors in the formula 14 minimizes any distortion that may result from 15 any one of the factors. 16 The three-factor formula is selected 27 because it takes into account the major 18 subjects of management concern, i.e., volume 19 we of activity, employees, and invested 20 21 capital. Some companies consider that the time, effort, and attention of top management 22 attributable to various segments are 23

24approximately proportionate to the volume or25activity of those segments. Revenue is26considered by some companies to be a27generally reliable and convenient measure of

- 9 -

....

1	volume or activity. Other companies believe
2	that top management efforts are primarily
3	devoted to the employees of an organization
÷	and, therefore, advocate the use of payroll
5	for allocating the cost of these efforts.
6	Still others believe that a major top
7	management concern is the management and
8	deployment of the capital invested in the
9	organization; for the purpose of this
10	formula, the net book value of tangible
1.1.	capital assets and inventories is considered
12	by the Board to be a reasonable
13	representation of invested capital.
14	In essence, the CASB has stated that the three-factor
15	formula is a fair allocation formula and gives reasonable
16	results in the federal government's dealings with the
17	private sector. The residual expense allocation method
18	prescribed by the CASB, <u>i.e.</u> , the three-factor formula, is
19	for all practical purposes the same as the general
20	allocation factor used in this filing for allocating
21	certain Atmos service costs to the subsidiary companies.
22	Q. In describing the allocation methodology used in this
23	case, Mary S. Lovell indicated that general allocation
24	factor used in this case was derived from the
25	Massachusetts formula. What is this formula?

1D: -_-

- 10 -

59 No.003 P.11

The Massachusetts formula is composed of three equally Α. ٦ weighted parts; gross payroll, operating revenue and gross 3 plant from which a percentage is derived and applied to 3 certain Atmos service expenses to determine Western's 1 allocated share. 5 Ms. Lovell indicated that four factors were used in Q. ć deriving the general allocation formula whereas the 7 Massachusetts formula uses but three. What are your views? 8 A comparison of the components of the two formulas shows Α. 9 the following: 10 11 Massachusetts Atmos 12 Gross plant Assets or direct plant Number of employees Gross payroll 13 Operating revenue Mcf received in system Number of customers 14 15 Although there are three factors in the Massachusetts .16. formula and four in the Atmos formula, I do not believe 17 this modification has any material effect as to the final 18 result. I believe that the number of employees equates 19 with payroll and Mcf received into the system equates with 20 Atmos believes that some modification operating revenue. 21 should be made to recognize the level of customers 22 services. This modification gives effect to that aspect 23 in the final percentage. In the case of Western, the 24 residual factor allocation percentage was decreased to 25 32.53 percent from 33.6 percent if this factor was 26 27 excluded.

ΙD

- 11 -

JUL 27199

. 00 No.003 P.12

x, >.

				_ .		-		
2		_ The res	ults are v	very simila	r usir	ng eithe	r formula	• -
2		The residual	expense a	llocation	percen	itage us:	ing t he	
3		Massachusett	s formula	compared t	o the	Atmos fo	ormula are	e`as
÷,		follows:						
5		WESTERN -	ENERGAS	TRANSLA Percentage)	NRG	ENART	EGÁSCO	TL16
7 £	Atmo Mass	s 32.53 . 33.5	47.85 45.88	12.39 14.13	1.11 1.14	5.36 4.55	0.33 0.44	0.43 0.36
9	Q.	How extensive	ely is the	Massachus	etts f	ormula u	ised as a	
10		basis for all	location?				:	
11	Α.	I believe the	ere are a	large numb	er of	companie	es using t	.he
12		formula or se	ome simila	r methodol	ogy.	Moreover	, over th	e
13		years, the Ma	assachuset	ts formula	, or a	formth	ereof, ha	S
14	·.)	been used by	most stat	es as a ba	sis fo	r apport	ioning	, -
15		corporate ind	come to a	state for	income	or fran	chise tax	
16		purposes.					-	
17	Q.	IS CAS 403 bi	inding_upo	n the Comm	ission	?	· ·	
18	A:	Certainly not	. My pur	pose in di	scussi	ng this	cost	
19:	· · ·	accounting st	andard was	s to show	(1) th	at the t	hree-fact	or
20		allocation me	ethod is a	well reco	gnizeđ	method	for	•
21		distributing	expenses (which canno	ot be	directly	assigned	
22		(2) that the	standard	was adopted	d afte	r extens	ive	
23		consideration	h by the Co	ost Account	ting S	tandards	Board, a	
24		body establis	shed by the	e Congress	to co	nsider c	ost	
25		accounting ma	atters, and	d (3) that	even	though C	AS 403 is	
26		not binding c	on this Cor	mmission, d	one ob	jective	of the CA	SB
27		was to get fa	ir costing	g standarð:	s which	h would	assist in	

1U: - . -

- 12 -

-			
	1		achieving a fair result to both the government and
	2		contractor. In essence this is one of the very important
	3		objectives of rate regulation and hence of this
	4		proceeding, i.e., to achieve a result which is just and
	5		reasonable to the consumers and the Company. I believe
	· 6	· •	this methodology accomplishes this most important and a second
	7	دوندين کې پاکان د	objective.
	8	Q.	Why do you believe that the Massachusetts formula
	9		methodology is a proper method of allocating expenses from
	10		Atmos to Western?
a a sa	11	A.,	First, we must accept the basic premise that there is no
	12	· .	one method which is without flaws. Any method that can be
	13	, , ,	devised will have certain defects. The question is which
	14		method will give a fair and reasonable result over a long.
	15	÷	period of time under varying conditions with the least
	16	·	probability of significant distortion. I believe that in
	17		the case of a company with several segments as Atmos, a
• • •	18	5.	formula approach which considers labor, revenues, and
	19		plant realistically recognizes the major concerns of
مرين شيني وي معمد الم	20		management, (i.e. management of its activities, property
	21	·	and people).
	22	Q.	In your review of the allocation basis and categories
	23		allocated, do you believe that the basis used are
	24		appropriate?
	25	Α.	Cost allocation inevitably raises difficult questions
	26		where answers frequently are not clearly right or clearly
	27		wrong. However, considering the constraints under which
			- 13 -

ID:

⊾:01 No.003 P.14

1 Atmos-Western found itself while preparing for this 2 filing, I believe that the allocation basis used were 3 reasonable and will result in a fair allocation of Atmos 4 service costs. However, I believe those categories which 5 used the residual formula should be reviewed to determine 6 the extent, if any, where direct allocation could be 7 feasible. For example, the legal and governmental 8 affairs, rates, and internal audit functions.

9 I understand that Atmos is continuing to review
10 categories of expenses and departments where direct
11 allocation may be feasible.

12 Q. Will these suggestions have a material effect on the 13 allocation results?

14 A. Over time, probably not. As Ms. Lovell indicated in her 15 testimony, a study made of direct charging internal audit 16 costs to Western compared to the residual method resulted 17 in only about a .02 percentage point variance from that 18 used in this filing.

As indicated in my testimony, all items should be addirectly charged where possible, pooled costs should be allocated on a causal basis and the balance should be allocated based on a residual formula. I understand this is the objective of Atmos.

Q. Mr. DeWard recommends that a complete audit be performed
at the corporate level before any increase in corporate
service charges is approved above that in the previous
case before the Public Service Commission (Case No. 9556-M

- 14 -

	-	ID: JUL 27'99 5:02 No.003 P.15
	·	
1	-	dated Center 31, 1986) is approved. [Page 8, Direct
2		Testimony)
3	A.	That is correct.
4	Q.	What does he suggest that the audit encompass?
5	А.	It appears to me that he envisions a detailed financial
6		and management audit of corporate service costs together
7		with a review of the allocation of service costs to its
8		subsidiary companies.
9	Q .	Based upon your review of the allocation methodology
10	I	employed by Atmos, do you believe that such an extensive
11		audit is necessary before the appropriate corporate
12		service cost level can be approved by the Public Service
13		Commission?
14	Α.	No.
15	Q.	Please explain.
16	Α.	Obviously, Mr. DeWard has little, if any, confidence in
17	•••••••••••••••••••••••••••••••••••••••	Atmos' corporate service costs allocation methodology. I
18		co not share this view.
19	· · ·	I must assume (1) that Atmos has the prerogative to
20		organize its corporate office to reflect its management
21	·	philosophy, (2) costs associated with each department are
22		those associated with that activity, (3) the costs are
23		permissible for regulatory purposes, (4) direct charges
24 [.]		are made where appropriate, and (5) the basis used for
25		allocation has a cause and effect logic.
26		For instance, the Human Resources Department costs
27		are allocated on the basis of year-end number of

· · · · · · · · · · · ·

- 15 -

:03	_No	•	003	Ρ	•	1	6
-----	-----	---	-----	---	---	---	---

	- 	
1		employees. Here I believe that this is a causal
2		relationship.
3	Q.	What about the Executive Department where a general
4		allocation is used?
5	Ά.	In this case, I believe that it is unrealistic to expect
6		management to keep time sheets as to where their time is
7		spent. Their time is spent running the corporation as a
. 8		whole and managing its varied functions. The residual
9		allocation is appropriate.
10	۵.	Do you believe that the corporate expenses should be
11		limited to the 9556-M ceiling?
12	A.	No, \$27,000 per month or \$324,000 per year is not
13	· .	reasonable on its face to recover costs associated with
14	. .	general office services rendered on behalf of Western. As
15	-	previously stated there is no precise right number when
16	•	allocation is necessary. The best one can do is come to a
17		reasonable and fair result. What that may be is based on
18	÷	our individual judgment and experiences.
19	* *	The fact that corporate service costs allocated to
20		Western may have increased does not mean these costs are
21		unnecessary. As indicated by Mr. Purser's testimony,
22		Western was having difficult times when it was acquired
23		and may not have been managing at the appropriate resource
24		level. Further, frequently in order to achieve better
25		management and more efficient operations expenditures of
26		funds are necessary.
27	Q.	Does this complete your testimony?
28	Α.	Yes, it does.

ID:

16 -

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

IN THE MATTER OF

RATE ADJUSTMENT OF WESTERN KENTUCKY GAS COMPANY CASE NO. 90-013

27

CERTIFICATE

I, Arthur L. Litke, have answered the above questions propounded to me in Case No. 90-013. These answers and exhibits constitute and I hereby adopt, under oath, these answers and exhibits as my prepared direct testimony in said Case.

DISTRICT OF COLUMBIA CITY OF WASHINGTON

SUBSCRIBED AND SWORN TO before me by Arthur L. Litke, on this 26th day of June 1990.

Notary Public, District of Columbia

My Commission Expires:

Western Kentucky Gas Company Case No. 99-070 KPSC Data Request Dated July 16, 1999 Supplemental Response to DR Item 71 Witness: Adams & Gruber

Data Request:

On page 9, lines 10 through 17 of Ms. Adams' testimony is a discussion of the increase in the forecasted test period communications expense that is attributed to increased use of mobile data terminals ("MDTs") and higher cellular usage. Provide a schedule showing the cost amounts, MDT units acquired and plant accounts charged since the project inception, showing the years in which the investments in MDTs were made.

- a. Does Western have contracts for communications expenses, such as long distance and cellular usage?
- b. If yes, provide the old and new contracts and an explanation of why the usage was deemed to increase in the forecasted period considering any contractual changes or changes in services used.
- c. Give a quantified determination of how this increase was estimated and whether the costs are under contract or not.

Response:

In addition to the response provided to this question previously, Western submits the following:

Western has acquired 88 MDT units as follows:

1
33
44
9
1

- b. Attached are copies of all of Western's cellular service contracts.
- c. To determine whether Western's cellular costs would increase in the forecast period, Western looked at the most recent cellular cost data (See attached chart entitled, "Monthly Cellular Cost for western Kentucky Gas") and clearly identified that the trend of cost increases in this area was continuing. Additionally, implementation of the MDT's, which did not begin in earnest until February and March of 1999, was moving toward the June conversion to the new billing system. Since the MDT's were designed to work with this type of system, the effectiveness and, therefore, use of the MDT's was expected to be further enhanced. MDT's require a cellular modem and a

cellular line to effectively move orders to and from field operations to the Customer Support Center. Each field technician also carries a hand held cellular phone to provide communications in cases of service order questions and emergencies.

The fixed costs of the cell lines are under contract, while the usage cost varies. Increased usage of cellular units is anticipated with further roll-out and field experience. It is also important to note that construction and maintenance crews have yet to convert to the use of cellular technology but such applications are projected to come on line in FY2000.



|--|

• •

•

AUG. 10. 1999 10:11AM USCC MGMNT NO. 6331 P. 3 000000 DETAIL OF PAYMENTS AND ADJUSTMENTS 06/12/98 - PAYMENT.....THANK YOU! TOTAL PAYMENTS AND ADJUSTMENTS. 826(526 526 BY SERVICE LINE ACCOUNT SUMMARY INFORMATION PAGE MYFIELD SERVICE MY COMES NEVE CLARK K RICHARDSO RION TO BERRY A ALLISON AE DOGGETTT VE LOVAL SER GRAVS SER GRAVS SER GRAVS ISONVILLE SERVICE RIFFITH **生TIN** BORD ON CALL NILLIS ADA F S CAR. ITIRS n, INGFIELD ACCOUNT NUMBER: 30375758 BILLING DATE: 06/16/98 212 \$2,516,08 CR ... \$2,516.08 CR ੑੑੑੑਸ਼ੑਸ਼ੑਫ਼ਲ਼ਲ਼ਫ਼ਗ਼ਖ਼ਸ਼ਸ਼ਲ਼ਗ਼ਲ਼ਲ਼ਲ਼ਫ਼ਗ਼ਫ਼ਲ਼ਲ਼ਜ਼ਜ਼ਲ਼ਲ਼ਜ਼ਫ਼ਗ਼ ਲ਼ਗ਼ਗ਼ਗ਼ਗ਼ਲ਼ਗ਼ਲ਼ਲ਼ਲ਼ਲ਼ਫ਼ਗ਼ਲ਼ਲ਼ਗ਼ਗ਼ਲ਼ਸ਼ਸ਼ਸ਼ਗ਼ਲ਼ਲ਼ਖ਼ਫ਼ਫ਼ਗ਼ 88 4 2 255 <u>5</u>52 194289898982828

000000 AIRTINE TOTALS TOTAL: 1000 NINUTES P/OP INCLUDED PEAK(P) OFF-PEAK(OP) USAGE CHARGES: Account Summary of Airtine Usage Fleet plan AJR(INE - INCLIDE) PERK(P) OFF-PERK(OP) NONTHLY SERVICE: FLEET PLAN - 06/16/98 THROUGH 07/15/98 TOTAL MONTHLY SERVICE...... other charges and credits: Kentucky School Tax Total other charges and credits... TOTAL CLARENT ACCOUNT LEVEL CHARGES AND CREDITS ACCOUNT LEVEL CHARGES AND CREDITS (502)929-8904 JEFF WHITING ROAMING ADMINISTRATION FEE TOTAL OTHER CHARGES AND CREDITS..... DERAL LAUVERSAL SERVICE FEE TOTAL CURRENT CHARGES DETAIL OF CLIRRENT CHARGES PAGE . د 0.25 0.25 ω SPECIAL 0.0 ACCOUNT NUMBER: 30375758 BILLING DATE: 06/16/98 199.0 SPECIAL MINUTES 133.0 32.0 250.0 19.00 19.00 HOHE 915.0 2400.0 673.0 3988.0 \$15.01 \$19.95 \$54.32 \$9.89 \$2.00 SERVICE LINE 000101 MINUTES 2533.0 705.0 4238.0 ß

554.32 **354.32**

\$19.95

\$7.47 Q

AUG. 10. 1999 10:11AM

IDIAL USAGE CHARGES ...

\$14.51

OHMUC

.......

MGMNT

CC

US

NO. 6331

-P.

4

\$2,340.13

AFFRINT NUMBED. 202755

216

0000

F

AUG. 10. 1999 10:11AM

DEPT 603030

DENVER, CO 80281-0043

۰. .

USCC MGMNT

9-132 X 64 10-6

:

EOS

#

020760202030020

500000001551256200155100000005

н н н

Ħ

							•
P.D. BOX 419 EVENSVILLE, IN 47703-0419 EVENSVILLE, IN 47703-0419 COMMENTS C	000000 002077	PLEASE DETACH AND MAIL THE BUTTON PORT	FOR ALL BILLING INQUIRIES,	Summer of Clarge Manthly Service Other Charges and Credits Usage Charges Traces Traces Total Cuarent Char	52,340.13 52,340.13CR 5.00 5.00	NESTERN KY GAS## PREVIOUS PAYMENTS ADJUSTMENTS PAST DUE BALANCE THRU 07/15/98 THRU 07/15/98 BALANCE	ų.

22,962,15 \$38,27 \$181,86 \$779,04 \$181,80 \$78,00

SUMMARY OF CLARENT CHARGES

FOR ALL BILLING INDUIRIES, CALL (502)929-0175.

TOTAL CURRENT CHARGES

SE DETACH AND WAIL THE BOTTOM PORTION WITH YOUR PAYMENT TO ENSURE PROMPT MEMOLING.

000000	000207 ACCO	INT NUMBER: ING DATE:	30375758 07/16/98	N)
3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CHECK BOX AND INDICATE	due date	total Angunt due	AHOUNT
EVANSVILLE, IN 47703-0419	COMPANYS CHANNE FRANK	08/06/98	\$2,962.15	
SEND CHECK PAYABLE TO:	4 11			

ESTERN KY ONS##

ATTN JEFF MHITING 2401 NEN HARTEORD ROAD 24ENSBORD, KY 42303-1312

NO. 6331

5.00

\$2,962.15

5.00

\$2,962,15

CURRENT

ADVANCE TOTAL PAYMENTS AMOUNT DUE

DUE DATE

08/06/90

5

P

200

INVOLCE NUMBER: 30375758-2-078

ACCOUNT NUMBER: 30375758 BILLING DATE: 07/16/90

Foe |

0-132 X 64	10-								A											• - •																			
94 9 90 9 91 9 91 9 91 9	• • • •																																			g		 000000	· · · · ·
	(502)929-5107	+605-626(205) 5805-626(205)	1702-021		202122-1225	(502)929-1977	(502) 529-1939	(502)929-1932	9044-001	14684-626(205)	(502)529-1634	(502)929-1811	(502)929-4794	(502)929-4792	(502)929-3455	(502)925-8881	2942-626(205)	(502)929-8976	9018-525-5018 (502)9-59-68444	(\$02)929-8155	14466-626(205)	(502)929-2393	(502)929-321((502)929-6311	(502)929-8334	(502)929-9101	(502)929-8457	(502)929-2504	(502)-959-2502)	(502)729-3205	0564-626(205)	1068-626(205)	1268-626(205)	2069-626(205)	ACCOUNT LEVEL CHARGES A	WHAY OF CHARGES BY SERVIC	07/08/98 - PAYMENTS AND ADJUS 07/08/98 - PAYMENT TOTAL PAYMENTS	R	
404 400 100 400 100 40 100 40 100 100 40 100 40 100 100 40 100 100 100 100 100 100 100 100 100 1	RICK HILLIS	GREY BULLINGTON	DRUCE TUCKER	DOUG STERROS	RON SALHON	TOM ROFHMAN	GREG RANNCE	DON GRIFFITH	THE FLOW ANKING	BILL HOODHARD	JIN RICHROSON		TIN CHENS	KONNIE BENNINGFIEL	PAUL VANCE	PRT LEBREN	HARION TO SUP	JERRY HARMON	TON HIGDON		STEVE CLARK	KAY COOMES	DAN PRICE	DAVID RUSSELL	HADISONVILLE SERVIO	RIC KISSINGER	RODGER OFFICE	DAVE DOGGETTE	JIN ALLISON		EARL FISHER	DHENSBORD ON CALL	GLASCON ON CALL		D CREDITS		ithents And Adjustments	DUNT SUBMARY INFORMATI	PAGE 2
86 54 95 94 86 94 86 94 85 94 95 94 96 94 96 94 96 94 96 94			-	-			•												•				•			• • •	-	-	-									101	ACCOUNT NUMBER: 303 BILLING DATE: 07.
N, 66 M, 66 M, 66 M, 66 M, 66 M, 66 M, 66 M, 66	S23.	558.1 579.1	S35.	222	S25	525	\$32.0		530.0	562.1		.055	537.	529.0	543	S 19.	S2.	S24.	SH2.0	5	548.		592.1	534	3157.1 355.1	565.0	2513	387.0	517.0		S158 .	2982 1942	133 .	1967. 1921	\$63.		\$2,340.		16/98
44 44 46 54 46 14 46 14 16 14 16 14 16 16 16 16 16 16 16 16			20	5	3	70	18	~~ 8	R 2	112	34	*=	13 :				,	3	¥ d		8	7 4	- - -		36	22	6	7		* 7		50			8		13 CR \$2,340.13 CR		
19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 1) 																							-															

E08

: :

	HULIAGHNOES, TOTAL USAGE CHA	AIRTINE - INCLUDED PERK(P) OFF-PERK(OP)	FLEET PLAN	OTHER CHARGES AND CREDITS: MISCELLANEOUS ACCESSORIES FEDERAL UNIVERSAL SERVICE 2010 DISCOUNT ROAWING ADMINISTRATION FE ROAWING ADMINISTRATION FE	HONTHLY SERVICE: FLEET PLAN - 07/16/98 THE TOTAL HONTHLY S	(502)929-8904 JEFF #1111NG	TOTAL CLARGENT ACCOUNT LEVEL O	OTHER CHARGES AND CAEDITSI KENTUCKY SCHOOL TAX TOTAL OTHER CH	Account level charges and cas	TOTAL:	1000 MINUTES PAOP INCLUDED PEAK(P) OFF-PEAK(OP)	ACCOUNT SUMMARY OF AIRTINE US	000000 (502)929-1540 (502)316-1075 TOTAL CLARENT (
	0.0	SPECIAL 0.0 0.0 0.0		Fee Roes and credits	OUGR 08/15/98 ERVICE	•	HARGES AND CREDITS	RGES AND CREDITS	TAIL OF CLARENT CHARGE DITS	· • •	0.25 0.25	HOE	IT LORNER KAY COONES MDT	J. J.
	502-0	MINUTES 328.0 82 141.0 35	,				: 			0,465	NINTES 136.0 59.0		•	ACCOUNT NUMBER: 3 BILLING DATE: 0
英华 达 经 达 分 美 希 经 等 任	s117	N998		SI74. S27. S27.		8		\$63.		4183.0 4	HINUTES MI B64-0 1 2553.0 2 766.0 2		\$17. \$17.	0375758 7716798
"家家家",我们是这个人,我们有多少的。	25 36 37 31 47,31			: \$ 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	24.61 3	RVICE LINE 000101	\$63. 40	84. 29 5		\$77.0	825-20 1752-20 1910-20	27	82 82 82 82,962,15	

ī

FOR

100

P.O. BOX 419 CHECK BOX AND INDICATE DUE DATE TOTAL ANOUNT END CHECK PAMABLE TO:: CHECK BOX AND INDICATE DUE DATE ANOUNT DUE DATE ANOUNT SEND CHECK PAMABLE TO:: ENLISOUTH WORLLITY ENLISOUTH WORLLITY BELSOUTH WORLLITY NESTERN KY GREEN 09/06/98 \$2,571.93 DEPT 603030 201 MESTERN KY GREEN 09/06/98 \$2,571.93 DEPT 603030 201 NEW FMILIIN 201 NEW FMILIING 2001 201 NEW FF MILIING 201 NEW FF MILIING 201 DEPT 60303003375758271993310002571933100020000005 201 NEW FF MILIING 201 NEW FF MILIING 201 NEW FF MILIING 201 NEW FF MILIING 201 NEW FF MILIING 201 DEPT 603030337575827199331002571933100020000005 201 NEW FF MILIING 201 NEW FF MILIING 201 NEW FF MILIING 201 NEW FF MILIING 201 NEW FF MILIING 201 201 NEW FF MILIING 201 NEW FF MILIING 201 201 NEW FF MILIING 201 NEW FF MILIING 201 201 NEW FF MILIING 201 NEW FF MILIING 201 201 NEW FF MILIING 201 NEW FF MILIING 201 201 NEW FF MILIING 201 NEW FF MILIING	SUMMARY OF CHRORIT CHARGES HONTHLY SERVICE OTHER OMPOSES AND CREDITS INCLS INFL CHRORES 5112,001-76 FOR ALL BILLING INQUIRIES, CALL (502)929-6175,	ACCOUNT NUMBER: 30375758 BILLING DATE: 08/16/98 INVOICE NUMBER: 30375758-2-088 INVOICE NUMBER: 30375758-2-088
---	--	--

SHARA NO. 10. 1999 10. 10 MM

弱	10 10	**				•)									_		-								•		0000	
「「「」、「」、「」、「」、			1929-5294	5805-626(203)	(\$02)929-\$071	(202)929-2023	5664-626(205)	(502)929-1977	(202)929-1013	2564-626(205)	1564-626(205)	>064-626(205) 4684-626(205)	(502)929-4834	8184-626(205) 1164-622(205)	15021929-4794	262 h-6261 205)	(502) 929-4 787 (502) 929-3455	(502)929-8881	2942-6261205)	(502)929-8976	9018-6261205	(502)929-8155	(502)929-9944	6015-555-5505	(502)929-3211	(\$021929-8334	1016-62612051	15021929101	(502-2504	UE60-626(202) 5042-67612041	2025-626(205)	1502152-528 1544-6261205	1902 929-8901	2268-6261205) [268-6261205]	2068-626(205)	ACCOUNT LEVEL CHARG	SUMMARY OF CHARGES BY C	08/04/98 - PAYMENT	DETAIL OF PAYHENTS AND	ŪŪ.	
		RICK HILLIS	RANDY EDGE	CADY BUT I JUCTON	BHARY MIGGINTON	DOUG STEARAS	RON SALMON	TOM ROBERTS	GREG RAMAGE	DON GRIFFITH	COLEMAN ADATHS	BILL HOODHARD	JIN AICHARDSON	LARRY REYNOLDS	TIN OWENS	KEVIN DOBBS	PRUL VANCE	ART LEBRIN	MARION TO	JERRY HARMON	NDT WHITING	HAMESVILLE	STEVE CLARK	MAYFIELD SERVICE	DAN PRICE	MADISONVILLE SERVIC	KEVIN AKERS	RODGER GARMS		JIM ALLISON	BETTY ADAMS		OWENSBORD ON CALL	GLASGOW DN CALL	GARY SMITH	ES AND CREDITS	EDVICE I INC	MENTS AND ADJUSTMENTS	AD MISTMENTS	Account Summary Informat	PAGE 2
	*************	7 7 8 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 8 9 8				•		•	-	• ,																H						-	•		•						ACCOUNT NUMBER: 30375758 BILLING DATE: 08/16/98
* * * * * * * * * * * * * *	**********	364.76	\$26.81	\$39.42	\$23.54	124 F3	\$36.34	525,72	432 B3	533.3 5	<u>3141-05</u>	244-76		121.03 CR	85% 59 850,877	\$51.01	56' Ohs	55 15B	528.95	242 37 94.40	\$28.08	264,53 244,53	167.77	3466.73 334.18	\$20,22	8146.31	\$79.93	19 57-101	564,12	523.66	\$29.92 \$27.75	S218,68	\$67.37	534.87	5191.45	363.81		\$2,962.15 CR			
* * * * *	* * * * *					-																																			

IN. 1222 IN. LOUM υυ,

0000 THEATH

. -

		AIRTINE - INCLUDED PEAK(P) 0.0 107.0 40.00 PEAK(P) 0.0 107.0 .00 OFF-PEAK(OP) 0.0 266.0 66.50 AIRTINE TOTALS, 0.0 95.0 23.75	LISAGE CHARGES; FLEET PLAN	OTHER CHARGES AND CREDITS. MISCELLANEOUS ACCESSORIES FEDERAL UNIVERSAL SERVICE FEE 20% DISCOUNT TOTAL OTHER CHARGES AND CREDITS	MONTHLY SERVICE: FLEET PLAN - 08/16/98 THROUGH 09/15/98 TOTAL MONTHLY SERVICE	JEFF WHITING	TOTAL CURRENT ACCOUNT LEVEL CHARGES AND CREDITS	other charges and credits; Kentucky School Tax Total Other Charges and credits	DETAIL OF CURRENT CHARGES ACCOUNT LEVEL CHARGES AND CREDITS	1000 MINUTES P/OP INCLUDED RATE MINUTES MINU 00 PINUTES MINUTES MINUTES <th< th=""><th>(502)929-1940 IT LONNER (502)929-1962 KAY COOMES MDT (502)929-1862 ENGINEER ON CALL TOTAL CURRENT CHARGES</th><th>000000</th></th<>	(502)929-1940 IT LONNER (502)929-1962 KAY COOMES MDT (502)929-1862 ENGINEER ON CALL TOTAL CURRENT CHARGES	000000
• • • • • • • • • • • • • • • • • • •	\$90.25 \$30.50 \$30.50		330.28	\$59,90 \$42 \$22,04 CR	\$6'6!\$	SERVICE LINE 000101	163.8 1	18.E33	-	ES HINUTES 100 10002.0 100 3366.0 1007.0 5373.0	\$18,05 \$17,82 \$54,94 \$2,571,93	

P.O. JOX 419 EVHASVILLE, IN \$7703-0419 COMPENS CHAN SDAD CHECK PANALE TO; BELLSDITH MORTLITY	702000 000000	SUMMARY OF CLIMAENT MONTHLY SERVICE OTHER CHARGES AND CREDITS USAGE CHARGES TRUES TRUES TOTAL CLARAENT CHARGE FOR ALL BILLING INQUIRIES, CA	PREVIOUS PRIMENTS ADJUSTMENTS PAST DUE BALANCE THRU 09/15/90 THRU 09/15/90 BALANCE \$2,571.93 \$2,612.20CR \$.00 \$40.27CR	HESTERN KY GASWA
THDICATE DUE DATE ANDUNT DUE ENCLOSED ROK. 10/07/780 \$2,880.72	ACCOUNT NUMBER: 30375758 2 BILLING DATE: 09/16/98 2	CHANGES S1,095.91 S1,065.79 S1,065.79 S122-01 S120-01 S120-01 S120-01 S120-01 S120-01 S120-01 S120-01 S120-01	DUE DATE10/07/98CURRENTADVINCETOTALCHARGESPANMENTSANOUNT DLE\$2,920.99\$.00\$2,889.72	ACCOUNT NUMBER: 30375758 BILLING DATE: 09/16/98 INVOICE NUMBER: 30375758-2-098

903

Fos Post

-112	nu	r. 10.	199	9 II	U:I	JЧШ		U	201	J 191\	a mita i	L													n.	. 05	91	ſ.	IJ		. .	
• 7	**							, f			-1		-			-								-								2 1
·	**	•		<u>.</u>											·													Ş	3			
	**		,	N.																								000	2			
	**			i.																					ይ		8	¢	D		1	
		999	i33i		195	163	iga	63	25	193	122		200		201	22		~ ~	~~	~					.∍₹	_						
	1999 1999	262	N N	588		ŝŇ		ŘŔ		388	388 NNN	222	388 1 N N		38	58) S	RR	ខ្លួន	222	Žž	388	85	3 2 2	182	ĨÄ₹	160						
	-	推設改	NN.	i N P	1.1.6	121	1XX	N.N.		ŚŇX	5×8	XXX	XX		ŠŽ	88	N.N	žž	Ŭ,	¥ y	ÿ	ŇŸ	ÿ		Š9	3						
		111	JJ	RI.]]]		1)	27.	144	44	LA A	PΨΫ	ιų.	ŶŸ	Ϋ́Υ	ųφ	39	Ϋ́́	, YYQ	ççç	Y QQ	4Q Q	ΪŻΩ	a a a a a a a a a a a a a a a a a a a	883					
	**	389	98		iy:			Žĝ	ΕĘ	ia:		말망	ij	33	G	<u>z M</u>		910	33	32	i v s	59	888	189	233		13				ļ	
	**	•		ļ,							1 — Li	1 N F	1674	- 19	ΞŴC	2) ++ .	-	<i>4</i> →	~1#	84	1110	84	- N -	Ň.	- B		33					
	**			j 5.																					불쭉		2₽					
	**			•																					ន្តីដ							ł
	**		r					•																	S S S S S	8:	:2	₽				ł
•	96,66 Al		•	••																					ΞÂ	<u> </u>	: 5	8		P		I
	**	특별곱	333	333	경검	139	128	귕뼗	김주	33		Ŧ	122	20	121		***	동자	辺の	yL		me) V G	ດເ	22	₹:	: 0	S		3	ł '	1
	**	ຸຊຊ	<u> </u>	i B S			26	ΞĘ			역충		2		₹	ζŦ,	SB	27	턿릴	23	99	20	jēş	37	<u>e</u> a	콜菜	불질	Ø		•••	ł	
	에 해 이 해 이 해 이						변물	٥ŝ		Πs	55	27		is -	18	12,	28:	Ĭ	현 <u></u> 연	ZZ			ġž	Ωz	3	ĔΪ	ž	Ŧ				
	**	שעק	ät;		93	83	12	킋읊	78 78		20	덕콜	8E	ES	<u>الج</u>	'Â	isi		82	36	\$F	23				112	z	Ŗ		N	Į	
	***	5	- ST	별꺯	Ĩž	3	걸즐	×.	ē,		~?	2	ి చే	* **	, vi		BE	8 8	골 곧 6	33	56	29	22		•	<u>d</u> e	Ë	¥				
	14 (4) # 14 #4	4	2	2		ø	a			5							2	2				ā	22			3		3				
1	10 14									þ					h	1	N.					Ë				:	•	3			Ι_	
1	H H					,			1	0					·	• !	Ā	1 68										II.				1
1													•.			a.		**							• .	:		Ž	_			
	N 42														:,	*		• • •								:				-R-		
1									•									•												2	3	
1	平安 14 99									-	-					1		• • •								:.	-		2	577		ľ
	N 84															• • .										÷				SÈ.		ł
1							ŀ																		•	:			1	"8		
i											•	-														:	•	-	-	- 		
1	9 99																	÷								:			*	50		
	4 14																									•			g	57		
4	4 14							. •								•										:			9	828		
,	• •		•				•																			: 2						
		공공	205	꿈꿍	98.	52	SRI	285		ż	NN		Ny 1		N¥	38	52	13X	353			55	ង	533	8 -	: 21	2					
*	* * 2	82	3, ⊐ ,≅	58	28		222		22			13	9		μġ		50.0				9 W I		w f				ė lu					
		}				•							<i>~ v</i> /(w~1			10.0	441.	งญง		n d i	-101	D.	- 03-	ŭ n				Ÿ	ł
	• • •							:																-	:	N ₂ ,	đ					
	> ?? 																									5						1
N	-																									N.						
м М	144 Lan																				'					0					×	
	• •• • #•																							、		τΰ						
н	i 44																															1
H J) 34 44																															
N																																1
H	**								_																	_					1	ļ
	- 71 - 44																													. [ĺ
-	Ħ																														1	
											_																			Į		

Ţ

		•				-			
ないないので、「「「「「」」ので、		HIGGELLANEOUS ACTERNOL HIGGELLANEOUS ACTERNOL HIGGELLANEOUS ACTERNOL HIGGELLANEOUS ACTERNOL HIGGELLANEOUS ACTERNOL	UCHTHLY SERVICE: FLEE FUM - 09/16/78 1 TOTAL HOMTHLY TOTAL HOMTHLY	(\$02)929-8904 JEFF NHITING	other charges and oredits: Kentucky School Try Total other : Total current account leve	ACCOUNT LEVEL CHARGES AND	FLEET PLAN 1000 MUNUTES P/OP INCLUDED PEAK(P) OFF-PEAK(OP) TOTAL:	CCONNI 210000 00 000000 (2021)316-1260 (2021)316-1260 (2021)316-1260 (2021)316-1260 (2021)316-1260 (2021)316-1259 (2021)316-1259 (2021)316-1259 (2021)316-1259 (2021)316-1259 (2021)316-1259 (2021)316-1260 (2021)316-12	
: : :			HROUGH 10/15/98 HROUGH 10/15/98		, charges and caedi	detril of curred Dredits	0.25 0.25		E 304d
:	84 44 44 46 49 46 59 46 59 56 59 56 59 56 59 56		ų čer T			AT CHARGES	<u>送</u> 2		arco Arco
						·	341.0 341.0		JUNT NUMBER: JNG DATE:
	40 50 40 46 40 30 40 30 40 40						HOME HINUTES 843.0 2781.0 1050.0 4674.0		30375758 09/16/98
		56.37 56.37 9 9	5 19.95	SERVICE	\$7 0,78	,* -,	TOTAL HINUTES 100112-0 22942-0 1073-0 5015-0	S17.82 S17.82 S17.82 S17.82 S17.82 S17.82	
	84 64 14 84 16 85 14 94 14 94		\$6°61 8	LINE 000101	570.78			66' 026'2	
	44 44 44 44 44 44		-					-	

:5



BELLSOUTH Mobility^{*}

3231 North Green River Road Evansville, IN 47715-1379

Account Number: 502-016-1248 Total Amount Due: 2,779.71 Due Before: 11/08/98

AMOUNT PAID \$

Check here if address change: complete reverse side

Make check payable in U.S. currency drawn against a U.S. bank to:

BELLSOUTH Mobility^{*}

PO BOX 530031 ATLANTA GA 30353-0031

4

00460000000 8

2401 NEW HARTFORD RD

OWENSBORO KY 42303-1312

50201612480

00000277971

Please Return TOP Portion With Payment.

BELLSOUTH Mobility^{*}

WESTERN KY GAS ATTN: JEFF WHITING

3231 North Green River Road Evansville, IN 47715-1379

Fa	or Customer Use	
Amount Pald	Date Paid	Check #

WESTERN KY GAS Bill Period Ending: 10/11/98 Account Number: 502-016-1248

Billing Inquirtes, call Customer Service 24 hours a day 800-351-2400

Total Past Due	Current Monthly	Other Credils	Totzi Amount
(Remit Immediately)	Charges	& Charges	Due
40.27¢R	2,634.31	185.67	2,779.71

Your BellSouth Mobility Wireless Bill Looks Different

Your BellSouth Mobility bill looks different this month, but your service has not changed. As you are aware, BellSouth Mobility acquired the United States Cellular (Cellular One) markets that provided wireless service to Kentucky and Southern Indiana residents, in November, 1997. Over the last ten months, BellSouth Mobility has continued to merge the various back office systems to better service our customers. One of these changes is converting your bill to look like the BellSouth Mobility bills used by all other BellSouth Mobility markets. We recently sent you a letter explaining the changes that you would see regarding the look of this bill and a possible change to your price plan.

Enclosed is an insert that will further explain the difference between your last month's bill and this month's bill. We, at BellSouth Mobility, are proud to have you as a customer. We are committed to offering our customers the latest. in wireless technology, the most extensive variety in service plans and phones, and superior customer service while maintaining affordable prices.

IB8 V484 (11/86)

• AUG. 10. 1999 10:14AM



Summary of Charges for Mobile Accour For Bill Period Ending 10/11/98	nt Number: 50	2-016-1248	Page	2 of 79
PRIOR BILLING ACTIVITY Previous Balance Payments Received thru 10/17/98 Adjustments to Previous Balance Past Due Balance TOTAL PAST DUE		2,880.72 2,920.99 ,00 40.27CR	40.27¢R	
CURRENT BILLING ACTIVITY Monthly Service Emergency 911 Service Fee Local Airtime Charges Total Airtime Usage Package Minutes Peak Minutes Night Minutes Roamer Charges (includes state & local taxes)	3,881.0 1,701.0 3,160.0 20.0	1,424.50 38.50 545.00 310.27		
Long Distance and Directory Assist BELLSOUTH LONG DIST INTRALATA TOLL Taxes Pederal State County TOTAL CURRENT MONTHLY CHARGES	75.22 130.74 64.85	37.88 7.35 270.81	2,634.31	·
OTHER CREDITS & CHARGES (Details on la	at page)	• •	185.67	

TOTAL AMOUNT DUE BEFORE 11/08/98

2,779.71

<u>.</u>



•		

BELLSOUTH Mobility*

3231 North Green River Road Evansville, IN 47715-1379

Account Number: Total Amount Due: Due Before:	502-016-1248 7,512.85 13/07/98
AMOUNT PAID S	
Check here if address change: complete rever	se side

Make check payable in U.S. currency drawn against a U.S, bank to:

BELLSOUTH Mobility

PO BOX 530031 ATLANTA GA 30353-0031

4

8 00460000000

WESTERN KY GAS ATTN: JEFF WHITING 2401 NEW HARTFORD RD

OWENSBORO KY 42303-1312

50201612480

00000751285

BELLSOUTH Mobility*

3231 North Green River Road Evansville, IN 47715-1379

Please Return TOP Portion Wi	th Payment.	•	
	Fo	r Customer Use	
oad	Amount Paid	Date Paid	Check #
9			

WESTERN KY GAS Bill Period Ending: 11/11/98 Account Number: 502-016-1248

Billing inquiries, call Customer Service 24 hours a day 800-351-2400

Total Past Due	Current Monthly	Other Credits	Total Amount
(Remit Immediately)	Charges	& Charges	Due
366.53CR	7,387.25	492.13	7,512.05

Okay maybe some of you haven't heard, but the 502 area code is nearing exhaustion. So we are now going to have a new area code to accompany our old area code. This means that there will be two valid area codes for the new area now served by the 502 area code today. What this also means is that everyone (wireless and wireline) will be required to dial 10 digits - even for, what historically have been local calls. This 10 digit dialing only applies to those territories served by the existing 502 today.

THE NEW AREA CODE IS 270.

There will be a permissive dialing period beginning 10/1/98 where customers can complete calls with 7 or 10 digits. We can do this today from our mobiles, so this shouldn't pose us any problems. Mandatory 10-digit dialing will begin 4/1/99.

IBS V484 (11/96)

PRIOR BILLING ACTIVITY Previous Balanca

CORRENT HILLING ACTIVITY Monthly Service Optional Features

Energyancy 911 Service Fee Non-Recurring Charges Local Airtime Charges Total Airtime Usage

Package Minutes Peak Minutes

Payments Received thru 11/14/98

Adjustments to Previous Balance Past Duc Balance TOTAL PAST DUE



Summary of Charges for Mobile Account Number: 502-016-1248 For Bill Period Ending 11/11/98

	Page	3	of	186
2,887.14				

365.53CR

÷,

. . .

1 - 22

2,887.14 366.53CR 366.53CR

3,124.90

8,310.0 5,139.0

2,715.0 435.0

109.20 79.80 5.00CR 618.31

Off Peak Minutes	435.0	
Night Minutes	21.0	
(includes state & local taxe	2,807.5	3
Long Distance and Directory M	Wistance Charges	• •
INTRALATA TOLL	18:5	17
BELLSOUTH LONG DIST	99.6	1
Taxes		195
Federal	195 56	
State	231 00	
County	175 07	•
TOTAL CURRENT MONTHLY CHARGES	113.07	

OTHER CREDITS & CHARGES (Details on last page)

TOTAL AMOUNT DUE BEFORE 12/07/98

7,512.85

492,13

7,387.25





BELLSOUTH Mobility*

3231 North Green River Road Evansville, IN 47715-1379

Account Number: 502-016-1248 Total Amount Due: 12,901.05 Due Before: 01/06/99 AMOUNT PAID \$

*Please remit past due balance immediately Check here if address change: complete reverse side

Make check payable in U.S. currency drawn against a U.S. bank to:

BELLSOUTH Mobility*

PO BOX 530031 ATLANTA GA 30353-0031

۵

2401 NEW HARTFORD RD

OWENSBORO KY 42303-1312

WESTERN KY GAS ATTN: JEFF WHITING

00460000000 50201612480

00001290105

Please Return TOP Portion With Payment.

BELLSOUTH Mobility

8

3231 North Green River Road Evansville, IN 47715-1379

For Customer Use			
Amount Paid	Date Pald	Check #	

WESTERN KY GAS Bill Period Ending: 12/11/98 Account Number: 502-016-1248

Billing inquiries, call Customer Service 24 hours a day 800-351-2400

Total Past Due	Current Monthly	Other Credits	Total Amount
(Remit Immediately)	Charges	& Charges	Due
7,512.85	5,125.51	262.69	12,901.05

. . <u>.</u> .

.

Beginning with January bills, the Kentucky PSC requires that BMI collect a 'Kentucky Lifeline Support' fee in the amount of \$.05 per line for each Kentucky customer. The Lifeline fund, one of two state Universal Service funds, enables certain low-income and disabled persons to receive local telephone service at reduced rates.

The second Kentucky state fund is expected to be established in 1999 to support local telephone service in 'high-cost' areas of the state.

)B9 V484 (11/96)





Summary of Charges for Mobile Account Number: 502-016-1248 For Blll Period Ending 12/11/98

Page 2 of 162

PRIOR BILLING ACTIVITY Previous Balance Payments Received thru 12/15/98 Adjustments to Pravious Balance Past Due Balance TOTAL PAST DOE Please remit	immediately	7,512.85 -00 -00 7,512.85	7,312.85	
CURRENT BILLING ACTIVITY				
Monthly Service		3,221,93		
Optional Features		110,19		
Non-Recovering Charges		86.10		
Local Airtime Charges		225.00CR		
Total Airtime Usage	7 775 0	502.B3		
Package Minutes	5.098.0			
Peak Minutes	2,439.0			
Off Peak Minutes	146.0			
Night Minutes Rosson Chasses	42.0			
(included state & least home)		869.87		
Long Distance and Directory Argists	Math Manager	2	······································	
INTRALATA TOLL	ace marges	17 17	•	
BELLSOUTH LONG DIST	×	51 02		· ·
Texes		So2.40	· .	
Federal	144.69			•
	238.87	• •		
TOTAL CURRENT MONTHLY CHARGES	118.84	• .		
			5,125.51	

OTHER CREDITS & CHARGES (Details on last page)

TOTAL AMOUNT DUE BEFORE 01/06/99

12,901.05

262.69

¢





BELLSOUTH Mobility*

3231 North Green River Road Evansville, IN 47715-1379

Account Number:	502-016-1248
Total Amount Due:	10,978.22
Due Before:	02/08/99

AMOUNT PAID \$

"Please remit past due balance immediately Check here il addresa change: complete reverse side

Make check payable in U.S. currency drawn against a U.S. bank to:

BELLSOUTH Mobility

PO BOX 530031 ATLANTA GA 30353-0031

8

WESTERN KY GAS ATTN: JEFF WHITING

2401 NEW HARTFORD RD OWENSBORO KY 42303-1312

00460000000 50201612480

11. 190

00001097822 5

Please Return TOP Portion With Payment.

BELLSOUTH Mobility*

3231 North Green River Road Evansville, IN 47715-1379

Fo	r Customer Use	
Amount Paid	Date Paid	Check #
	-	

. · · · .

WESTERN KY GAS Bill Period Ending: 01/11/99 Account Number: 502-016-1248

Billing Inquiries, call Customer Service 24 hours a day 800-351-2400

Total Past Due	Current Monthly	Other Cradits	Total Amount
(Remit Immediately)	Charges	& Charges	Due
5,347.17	5,509.02	122.03	10,978.22

IS YOUR CURRENT RATE PLAN THE BEST FOR YOU?

PACT: Your needs change. FACT: So do our rate plans.

At anytime during your contract you can change from your current rate plan to one that better fits your needs as they change. BellSouth Mobility has many different rate plans to choose from. *

*Some promotional plans and/or features are only available to new activations.

188 V484 (11/06)


Page

2 of 159

Summary of Charges for Mobile Account Number: 502-016-1248 For Bill Period Ending 01/11/99

PRIOR HILLING ACTIVITY Previous Balance Payments Received thru 01/17/99 Adjustments to Previous Balance Past Due Balance Past Due Balance TOTAL PAST DOX Please remit immediately	12,901.03 7,512.85 41.03CR 5,347.17	5,347.17	
CURRENT BILLING ACTIVITY Monthly Service Optional Features Emergency 911 Service Fee Local Airtime Charges Total Airtime Usage 6,693.0 Fackage Minutes 5,001.0 Feak Minutes 1,306.0 Off Feak Minutes 343.0 Night Minutes 43.0	3,241.93 110.19 86.10 320.67		
(includes state & local taxes)	-/443103		•.
Long Distance and Directory Assistance Charges INTRALATA TOLL BELLSOUTH LONG DIST Taxes Federal 146.59 State 221.65	5.11 60.07 479.10	n en	
County 110.86 TOTAL CURRENT MONTHLY CHARGES		5,509.02	

TOTAL AMOUNT DUE BEFORE 02/08/99

----...

10,978.22

122.03





BELLSOUTH Mobility

3231 North Green River Road Evansville, IN 47715-1379

Account Number;	502-016-1248
Total Amount Due:	6,447.32
Due Before:	03/09/99

AMOUNT PAID \$

Check here if address change: complete reverse side Make check payable in U.S. currency drawn against a U.S. bank to:

BELLSOUTH Mobility*

PO BOX 530031 ATLANTA GA 30353-0031

6

8 00460000000

2401 NEW HARTFORD RD

OWENSBORO KY 42303-1312

WESTERN KY GAS ATTN: JEFF WHITING

50201612480

00000644732

BELLSOUTH Mobility*

3231 North Green River Road Evansville, IN 47715-1379

	Fo	For Customar Use				
load	Amount Pald	Date Pald	Check#			
9	·					

WESTERN KY GAS Bill Period Ending: Account Number:

02/11/99 502-016-1248 Billing inquiries, call Customer Service 24 hours a day 800-351-2400

Total Past Due	Total Past Due Current Monthly		Total Amount	
(Remit Immediately)	emit Immediately) Charges		Due	
52.31CR	6,471.55	28.08	6,447.32	

YOU HAVE AN ADDITIONAL NUMBER ON YOUR MONTHLY CELLULAR BILL

In March, BellSouth Mobility will be assigning an account number to each cellular customer. This number will appear on your monthly cellular bill. It is part of BellSouth Mobility's continued efforts in better serving our customers.

The addition of the account number is an improvement to our internal customer account system. At this time, the account number will not need to be referenced when inquiring about your current service. We will continue to access your cellular account by mobile number.

JBŞ V484 (11/96)



2 of 177

Page



Summary of Charges for Mobile Account Number: 502-016-1248 For Bill Period Ending 02/11/99

PRIOR BILLING ACTIVITY Provious Balance 10,978.22 Payments Received thru 02/15/99 Adjustments to Previous Balance Past Due Balance TOTAL PAST DUE 11,019,25 11.28CR 52.31CR 52,31CR CURRENT BILLING ACTIVITY Nonthly Service 3,286.93 Optional Features 123,08 Emargency 911 Service Fee 87,50 Non-Recurring Charges Local Airtime Charges 15.00 872.54 Total Airtime Usage 9,848.0 Package Minutes 5,014.0 Peak Minutes 4,367.0 Off Peak Minutes Night Minutes 88.0 Rosmor Charges 1,403.19 (includes state & local taxes) Long Distance and Diractory Assistance Charges INTRALATA TOLL . 8,82 BELLSOUTH LONG DIST , 102.56 . . • Taxas 571.93 Federal 173.77 State 265.44 132.72 County . TOTAL CURRENT MONTHLY CHARGES 6,471.55 OTHER CREDITS & CHARGES (Details on last page) 28.08

•

TOTAL AMOUNT DUE BEFORE 03/09/99

6,447.32

Account Number: 22001642-00NU. 0334 Total Amount Duc: 714.40



Due Before: AMOUNT PAID:

WESTERN NY GAS ATTN: JEFT WHITING 2401 NEW HARTFORD RD OWENSBORO KY 42303-1312

1650 Lyndon Farms Court Louisville, KY 40223-4029

PO BOX 530047 ATLANTA GA 30353-0047

22022001642700101999041100000571440201

a Charges

~2.25

1650 Lyndon Farms Court Louisville, XY 40223-4029

WESTERN KY GAS Bill Period Ending: Account Number: Total Past Due 0.00

04/11/99 22001642-001-22 Current Monthly Charges 5,716.65

Total Amount Other Credits Duc 5,714.40

ATTENTION CUSTOMERS WITHIN THE 502 AREA CODE

Due to the Western Kentucky area code split, April 19, 1999 has been designated as the initial date BellSouth Mobility will begin reprogramming Western Kentucky customers' cellular telephones.

If your phone number starts with a 502 area code, you will need to take your cellular phone by any BellSouth Mobility retail store. A BellSouth Mobility representative will reprogram your phone to the new area code 270 within 5-10 minutes.

The new 270 area code will not change your current local calling area. The area code change will only effect those customers who currently have a 502 area code in their phone number. The 812 area code customers will not be effected.

If you have any questions about your cellular service, including the area code change, please stop by or contact your local BellSouth Mobility retail store. Ľ. Z

Billing inquiries, call Customer Service 24 hours a day at 800-351-2400

AUG. 1U. 1 Stanutary For Bill	Beriod Ending 04/11/99	ber: 220016	42-001-22	Page 2	NU. 5334 P.	3
PRIOR BI Pre Pay Adj TOJ	LLING ACTIVITY vious Balance ments Received thru 04/12/99 ustments to Previous Balance Past Due Balance AL PAST DUE		1,709.59 1,709.59 0.00 0.00	0.0D		
CURRENT Mon Opt Zma UR:	BILLING ACTIVITY hthly Service tional Peatures argency 911 Service Fee wersal Svc Charge	·	3207.90 141.21 86.90 42.04			
Lo	col Airtime Charges Total Airtime Usage Package Minutes Posk Minutes Off Peak Minutes Night Minutes	10,365.0 5,352.0 4530.0 432.0 51.0	902.44			
Ro	nmer Charges (includes stare & local taxes)		619.98			<i>.</i> .
Lo	ng Distance and Directory Assistan INTRALATA TOLL BELLSOUTH LONG DISTANCE	ce Chargea	12.47 71.57			
Ta	Xe3 Federal Excise Tax City Utility User State Sales General County Utility User	153.53 130.46 267.57 -0.12	551.44	α τ		
TOTAL C	URRENT MONTHLY CHARGES		:	5,716.65		
OTHER C	REDITS & CHARGES			-2.25		
total a	Mount due before 05/08/99			5,714-40		

1650 Lyndon Farms Court Louisville, KY 40223-4029

USUL MGMNT

Account Number: 22001642-06NU, 6334 Total Amount Due:

707/99 +

P. 4

200.00

ل در جو د ا

. :.

*Please remit past due AMOUNT PAID:

Due Before:

balance immediately

WESTERN KY GAS ATTN: JEFF WHITING 2401 NEW HARTFORD RD OWENSBORO KY 42303-1312

PO BOX 530047 Atlanta ga 30353-0047

22022001642700101999051100001670148406

1650 Lyndon Parms Court Louisville, KY 40223-4029

WESTERN KY GAS Billing inquiries, call Customer Service Bill Period Ending: 05/11/99 24 hours a day at 800-351-2400 Account Number: 22001642-001-22 Toral Current Monthly Other Credits Total Amount Past Due Charges 4 Charges Due 16,701.48 5,714.40 7,090.81 3,098.27

ATTENTION CUSTOMERS WITHIN THE 502 AREA CODE

April 19, 1999 is the initial date BollSouth Mobility will begin reprogramming. A star in Western Kentucky customers' cellular telephones.

If your phone number starts with a 502 area code, you will need to take your cellular phone by any BellSouth Mobility retail store. A BellSouth Mobility representative will reprogram your phone to the new area code 270 within 5-10 minutes.

The new 270 area code will not change your current local calling area.

The area code change will only effect those customers who currently have a 502 area code in their phone number. The 812 area code customers will not be affected.

> If you have any questions about your cellular service, including the area code change, please stop by or contact your local BellSouth Mobility retail store.

AUG. IU. 1999; for Bill Peri	C. 241 M MobilUDUU M od Ending 05/11/99	UMN iber: 22001	642-UU1-22	Page 2
PRIOR BILLING Previous Payments Adjustme Pae Toral, pb	ACTIVITY Balance Received thru 05/12/99 nts to Previous Balance t Due Balance ST DIE Please ren	nir immediately	5,714.40 0.00 0.00 5,714.40	5,714.40
		•		
CURRENT BILLI Monthly Optional	NG ACTIVITY Service . features		4683.90 147.59	
Emergend Universa	1 Svc Charge		40.14	
Local Ai Tot Pac Pec Ofi Nic	rtime Charges al Airtime Ušaga kage Minutes k Minutes Peak Minutes pt Minutes	17,608.0 10,031.0 7144.0 358.0 75.0	1.291.08	
Roamer ((inc)	charges Ludes state \$ local tax	28)	423.03	
Long Dia IN BEJ	stance and Directory As: RALATA TOLL LISOUTH LONG DISTANCE	Sistance Charges	2,25 51,45	
Taxes Fei Sti Ci Co	DERAL ÉXCISE TAX ATE SALES GENERAL IY UTILITY USER UNTY UTILITY USER	306.54 598.98 209.04 1.86	1,116.42	
TOTAL CURREN	r Monthly Charges	·		7,889.91
OTHER CREDIT	s & CHARGES	• •		3,098.27
AC Mo	count Level bile Level	761.56 2,336.71		

TOTAL AMOUNT DUE BEFORE 06/07/99

16,701.48

Conservation and service

AUG.	IU. 1999 12:241M 1650 Lyndon Farms Courr Louisville, KY 40223-40	USCC MGMNT 29 *Pleas balanc	e remit past due	Account Number: 2200 Total Amount Due: Due Before: AMOUNT PAID:	01642-00.NO. 6334	P.
	WESTERN KY GAS ATTN: JEFF WHITING 2401 NEW HARTFORD AD OWENSBORO KY 42303-1312		PO BOX 53(Atlantà G	0047 2 30353-0047		
	1650 Lyndon Farms Court Louisville, KY 40223-40	22022001 29	642700101999061 :	100002406614506		
	WESTERN KY GAS Bill Period Ending: 0 Account Number: 2 Total Past Due 13,321.20	6/11/99 2001642-001-22 Current Monthly Charges 10,150.82	Bi 7 Other Credits 6 Charges 594.12	illing inquiries, call days a week at 800-351 Total Amount Due 24,066.14	Customer Service -2400	

6

ROAD TRIP SPECIAL! When you hit the road this summer don't forget BellSouth Mobility's Emergency Roadside Assistance.

ъć,

For only \$4.00 a month, the feature provides a 24-hour dispatch service that includes vehicle towing, battary/jump starts, flat tire changes, fuel/fluid delivery, and lockouts.

Add this feature to your service by 7/1/99, and we'll give you THE FIRST TWO MONTHS FREE!

Call 1-800-351-2400 or *611, a free call from your cellular phone.

ATTENTION WESTERN KENTUCKY CUSTOMERS Have you gotten your cellular phone reprogrammed with the new 270 area code? The reprogramming doesn't cost you anything and will be done while you wait. Stop by your local BellSouth Mobility store today!

AU	UG. 1U. 1999 _{C1} 12:241M _{2 Mobil} USUC MGMN Nor Bill Period Ending 06/11/99	T _{ber:} 22001	642-001-22		Page 2	NU, 1	6334	P. 7	
	PRIOR BILLING ACTIVITY Frevious Balance Payments Received thru 06/12/99 Adjustments to Previous Balance Past Due Balance TOTAL PAST DUE Please remit i	mmediately	16,701.48 -5,714.40 2,334.12 13,321.20		13,321.20				
	CURRENT BILLING ACTIVITY Monthly Service Optional Features Emergency 911 Service Fee Universal Sv¢ Charge		4603.90 152.70 124.95 76.84		a da Antonio di Antonio	·			
	Local Airtime Charges Total Airtime Usage Package Minutes Peak Minutes Off Peak Minutes Night Minutes	31,569.0 10,002.0 20,371.0 815.0 301.0	3,666.39					· · · · · · .	
•	Roamer Charges (includes state & local taxes)		199.51						
	Long Distance and Directory Assist INTRALATA TOLL BELLSOUTH LONG DISTANCE	ance Charges	17.89 88.65		· .				
	Taxos Yederal excise tax State Sales General City Utility User County Utility User	286.10 552.32 249.85 51.64	1,139.91	<u>.</u>	2000 NU 483		مهر معرف م	مي ميلين مي مراجع مراجع مراجع	
	TOTAL CURRENT MONTHLY CHARGES		-	•	10,150.82		· ·	• • 	
	OTHER CREDITS & CHARGES	•			594.12				
	TOTAL AMOUNT DUE BEFORE 07/08/99				24,066.14				

· · ·

AUG. 10. 1999 12:24PM

1650 Lyndon Farms Court

Louisville, KY 40223-4029

USCC MGMNT

Account Number: 22001642-00N0. 6334 Total Amount Due: 404.51

07/99 *

- - -۰.

1.1.124

. . .

. •.

*Please remit past due AMOUNT PAID;

balance immediately -----

WESTERN KY GAS ATTN: JEFF WHITING 2401 NEW HARTFORD RD OWENSBORO KY 42303-1312

PO BOX 70812 CHARLOTTE, NC 28272-0812

Due Before:

22022001642700101999071100002340457208

1650 Lyndon Farms Court Louisville, KY 40223-4029

WESTERN KY GAS Billing inquiries, call Customer Service Bill Period Ending: 7 days a week at 800-351-2400 07/11/99 22001642-001-22 Account Number: Total Current Monthly Other Credits Total Amount Past Dug Charges & Charges Dụê 13,079.06 9,736.42 589.09 23,404.57

Beginning in August, the per-line Universal Service support charge will increase to 73 cents per month. This change reflects increases in BellSouth's Universal Service Fund payments; which BellSouth and other telecommunications carriers are required to make by Federal Law. . .*

The funds collected for the Universal Service Fund help ensure the availability of basic telecommunications service to everyone at a reasonable cost, and are also used to provide discounted service to schools, libraries and rural health care providers.

Additional information on Universal Service can be found on-line at http://www.fcc.gov/ccb/universal_service/ushelp.html or look under 'What's New' at www.bollsouthmobility.com

P. 8

AUG. 10. 1999 212:24PM. Mobil USCC N For Bill Period Ending 07/11/99	IGMNTber: 22001642-001-22	Page 2 NO. 6334	P. 9
PRIOR BILLING ACTIVITY Previous Balance Payments Received thru 07/12/9 Adjustments to Previous Balance Past Due Balance TOTAL PAST DUS Please res	24,066.14 910,997.09 8 0.00 13,079.06 mit immediately	13,079.06	
CURRENT BILLING ACTIVITY Monthly Service Optional Features Emergency 911 Service Fee Universal Svc Charge	4683.90 -871.87 124.95 61.54		
Local Airtime Charges Total Airtime Usage Package Minutcs Posk Minutes Off Peak Minutes Night Minutes	4,036.31 33,743.0 10,000.0 22,461.0 920.0 362.0	: .	
Roamer Charges (includes state & local tax	65) 523.B3		
Long Distance and Directory As INTRALATA TOLL BELLSOUTH LONG DISTANCE	aistance Charges 0.98 01.25		
Taxes Federal Excise Tax State Sales General City Utility USER County Utility User	1,007.53 306.36 513.12 231.74 36.31		
TOTAL CURRENT MONTHLY CHARGES		9,736.42	
OTHER CREDITS & CHARGES	2	589.09	

TOTAL AMOUNT DUE BEFORE 08/07/99

23,404.57

Welcome Bell	South Mobili 0059428					
CUSTOMER INFORMATION Name of Individual or Business Responsible for Bill Payment (Please Point)	Individual Business Years employed					
NOCHENNE CORST	Social Security Number Dete of Birth					
P.C. Box 866	Driver's License Number State					
City Oneusberro Yy 47302	Portection D Partnership D Government D Sole Proprietorship Years in business under present ownership					
Business Phone #	Payment Contact Pert 7 Contact 8: Cont					
ACCOUNT IN	VFORMATION					
User isame nuures						
Mair to the attention bt: Maaring Address	City State, Zip Hill Copies Required					
Sales ID # Market Nerrob Do you currently have service with BellSouth Mobility? Use No Hirres. Hir yes. Add service line to existing account? Use No Hirres. His control of the second service line to existing account?	existing callular # Crevenue? Lead Source Referred by Cread Source Advance Data Data Data Data Data Data Data Dat					
Account # Activation Date CVS Credit # / Authorization #	Credit Class Deposit Amount Cellular Phone BPR - AHAUMED					
ACCESSORY DESCRIPTION OTY LOC SITE EQ TYPE PRICE	ACCESSORY DESCRIPTION OTY LOC SITE ED TYPE PRICE					
	3					
MONTHLY CHARGES / 2.10	INITIAL CHARGES Signal Dial Direct® Plus Insurance					
MONTHLY SERVICE PLAN NAME 1854546HT 37475	Accept Decine NORATED					
PEAK	VTED □ Mobile \$2.95 \$0 \$25 ES Λ Ω Portable/Transportable \$2.95 \$35 \$25					
COSTON CALLIFORWARDING C 3-WAY CALLING C CALL FORWARDING C 3-WAY CALLING D CALL FORWARDING C 3-WAY CALLING	HARGE					
DETAIL BILLING	HARGE (above)					
MESSAGE CENTER EQUIPMENT INSURANCE EQUIPMENT INSURANCE OTHER (specify)	AIES (above)					
ROADSIDE ASSISTANCE TAXES	50 entra martes per					
	CDEEMENT					
NOTICE TO CUSTOMER	Children in the second se					
this Agreement for an INITIAL TERM ("INITIAL TERM") OF, months (customer's initials.	White any increase in misse rates as explained below, for agree to maintain central defined inter-					
 The first month's bill will show a monthly service charge for the following month, subsequently you 	will be billed one month in advance.					
 All "Special Pricing Plans" are subject to eligibility requirements and approval. Ineligibility for "Special" When using your phone outside your home service area (roaming) rate may vary. 	al Pricing" does not nullify this agreement.					
 Long distance is billed in addition to airtime. The appropriate liquidated damages (up to \$240.00) may apply for early cancellation (see paragrage) 	ph 18 Prch Line					
Customer authorizes Company to check Customer's credit and to provide and exchange credit info Customer certifies that the pricing plan chosen has been explained and that the Customer understance	prmation regarding Customer with credit bureaus.					
charges, usage charges, liquidated damages, applicable daxes, (rental agreements, where applicable Customer elects to subscribe to BellSouth Mobility month agreement By signing below the up	All and agrees to same. 32.55 state pricing part including out not infinite to the activation root, motivity according to the above information and has received a copy of the above information and has received above information and h					
of, read, understands, and accepts the attached Terms and Conditions of Service Agreement (Form #	#BSCC 11-97). An analysis and the second state of the second state					
Check Box if Addendum is Attached for Additional Service Lines						
	Authorized Customer Signature Date					
Make checks payable to: BellSouth Mobility	Sales Representative Agent & Construe					
\$CCC \$Gilt Certificate	× ///// 2/ail9					
Receipt # / P.O. # / Gift Certificate #						
Number Exp. Date						
By initialing here, customer authorizes company to charge future amounts due under this	Customer will remain on the rate plan selected or a higher rate plan					
Service agreement to the credit card account listed above	Other Comments:					
Thank you for selecting BellSouth Mobility						

We	lcome	p Bell	South N	<i>lobil</i>	00	29604
	CUSTOMER INFO	RMATION	🗆 Individual	Business		A & A & A & A & A & A & A & A & A & A &
Name of Individuel or Business Responsible for Bill Paymont (Please Print)	-		Employer		-	Years employed
Street Address of Responsible Party - Do Not Use P.O. Box	11 11	Act:/Suite No.	Social Security Number	- -	Date	of Birth
City City Sigie	1-64, " 12W	Zip	Driver's License Number		·	State
Business Phone & Licci I STOCK C Kome Phone	/ (/ ne #	7307 Busin	Payment Contact:	ship 🔲 Government 🔲 Sole Pr	Contact #:	under present ownership
J-13-161-151-151161	- -		Tax Exompt Q Yes	ll yes, attach certilicate	Exempt Certificate #	
User Name Address	s	ACCOUNT IN	City State, Zip		User Phone #	
Mail to the attention of.	Mailing Address	7302		City State, Zip		Bill Copies Required
Sales ID # Market Name To Ada	Do you currently have service with BellSouth Mobility?	D Yes D No	existing cellular # 2 - G = G = S	PC. H D Yes D No	ead Source Referred by	Ci Account #
Account # Activation Date	CVS Credit # / Author	ization #	Credit Class Dep	osit Amount Cellular Phon	121-19121	91-1/8KR
	812648551	ACCOUNT IN	NFORMATION			
Medinaula Estimon	43A6.05		FUNCH LOE DEM AENT	AL UITEN WART		NA NA
ACCESSORY DESCRIPTION	QTY LOC SITE EQ	TYPE PRICE	ACCESSORY	DESCRIPTION		E EQ TYPE PRICE
			3	· · · · ·		· · · · · · · · ·
2	SERVI			ES		stand a standard a standard a
MONTHLY CHARGES	00.01		INITIAL CHARGES		Signal Dial Direc	Plus Insurance
MONTHLY SERVICE PLAN NAME (16 91) M. 30	27.75	ADVANCED MONTHLY P	RORATED 1921 - 1915 - 1917		Accept	Loss/Damage Mech/Elec bone Deductible Deductible
PEAK OFF-PEAK		FIRST MONTH'S PRORA MINUTE	ая <u></u> Л.Г.		\$2.95 Ie/Transportable \$2.95	\$0 \$25 \$35 \$25
Call FORWARDING C 3-WAY CALLING		SERVICE ACTIVATION C	HARGE	H You Sub	scribe to Signal Dial Direct+ Plus It	\$35 \$25 surance. You acknowledge that equipment working order. You have maked mad and
DETAIL BILLING	- <u> </u>	EQUIPMENT / PHONE CI	HARGE (above)	the broch pany, gro	the terms and conditions under w m. You acknowledge that insurance for by BellSouth Mobility. Request	thich the insurance is offered as outlined in the protection is offered by the insurance com- for information for claims regarding the and concerne is explained by compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the compared to the the ofference is a surgitable by the the ofference is a surgetable by the the o
	* <u>************************************</u>	EQUIPMENT ACCESSOF OTHER (specify)	UES (above)	1-8007480	0187	chtsta ++
OTHER (specify)	· · · · · · · · · · · · · · · · · · ·	TAXES	999 \$1999 \$19946. S	DC	$s = \lambda c$	
		SERVICE A	GREEMENT			
NOTICE TO CUSTOMER (a)Term. The charges for cellular service are specified a	bove. In exchange for th	e Company agreein	to limit any increase in the	se rates as explained	below. You agree to n	naintain cellular service unde
this Agreement for an INITIAL TERM ("INITIAL TERM") • The monthly service charge and any minutes includer	OF, months d will be prorated for the	s (customer's initials number of days in se	LLS.	period.		
The first month's bill will show a monthly service char. Att "Special Pricing Plans" are subject to eligibility reg	ge for the following mont	h, subsequently you	will be billed one month in a	idvance.	•	en an an Arthur an Alban 19 An Annaichte an Alban 19 Annaichte Annaichte
When using your phone outside your home service and	rea (roaming) rate may v	ary	Therefore a second	iis agreement.	en e	nen og seneral af det som en seneral af det s Seneral som en seneral af det som en seneral a Seneral som en seneral af det som en seneral a
 Long distance is blied in addition to airtime. The appropriate liquidated damages (up to \$240.00) i 	may apply for early cance	al alion (see paragra;	ch 18)			
 Customer authorizes Company to check Customer's of Customer certifies that the pricing plan chosen has been applied on the plan chosen h	credit and to provide and en explained and that th	exchange credit info e Customer understa	rmation regarding Customer ands the components of the p	r with credit bureaus. pricing plan, including l	but not limited to the a	activation fee, monthly access
charges, usage charges, liquidated damages, applicat Customer elects to subscribe to BellSouth Mobility's	te taxes, (rental agreem month agreement. By	ents, where applicab signing below, the ur	e) and agrees to same	owledges the accuracy	y of the above informa	tion and has received a copy
of, read, understands, and accepts the attached ferms a	and Conditions of Service	e Agreement (Form #	#BSCC 11-97).			
	a JCI VILE LINES		Authorized Customer Signatu	ire	n Article Control Article Article Control	Date ////
Make checks payable to: BellSouth Mobility	· · · · · · · · · ·		x 1.//1	In Aria	n an	12/tolar
\$Cash \$S.	i Agric Alexandri - Constanti Const Angelo - Constanti - Proposi Inc	Check	Sales Représentative / gent	Signature	<u>। स्थान के प्रकेश क</u>	Date
	······································	Gift Certificate	x All	7-1		12/10/97
UVISA D MasterCard D American Expres	s 🖸 Discover			CASH REGIST		N
Number Exp. Date			Customer will rem	ain on the rate r	blan selected or	a higher rate plan
By initialing here, customer authorizes company to ch service agreement to the credit card account listed at	harge future amounts due	under this	for a period of 180) days.		
ORIGINAULOFFICES, YELLOW: AGENUSALESPE	HSON STEINK COST	MERICHOMOT	Other Comments:	مانية ماين ومانية. مانيا ميرا ^م انين		<u>1997 - Maria Mariana, an</u> Ang ang ang ang ang ang ang ang ang ang a
Thankwartar	Dall Sanda M	oblight	a the factor of	2		<u>an er efterskinder</u> Nan († 1996) statistist
		uuuuy.	n <u>1990. An an</u>		ringer in the second	

.

Welcome BellSouth Mobili

2452 20	1.1	1	2727 30913	A sector
16.65	52622		ALC:	SP States
1. 6.44	1.1.1.1.1.1.1	10 C 10 C	59 X O H	Bacal US -
		10.16	1.000	2.352
L TO LOW!	131		7	A
and the state of the	1 2 3 1 9	S4-5-2-102	10012-01	IT WAS

CUSTOMER INFO	RMATION	🗆 Individual	Business			
Name of Individual or Business Responsible for Bill Payment (Please Print)		Employer			Years of	mployed
Street Address of Responsible Party - Do Not Use PO, Box	Apt/Suite No.	Social Security Number		D	ate of Birth	·
7-6-307-566		Driver's License Number			Stat	haisis. Ie
City State		Corporation' O Parts	tership 🖸 Government 🗖 Sole Pro	prietonship Years in busin	ess under present ownership	1 27 88883 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Business Phone # Home Phone #		Payment Contact:	Ar Coute	Contact #:	(22-81	<u>1.a)</u>
5617-1017188140 111-111-1		Tax Exempt D Yes	· If yes, attach certificate	Exempt Certificate #	11 11 11 11 11 11 11 11 11 11 11 11 11	52 45 16 2 3
	ACCOUNT IN			User Phone	• • • • •	<u>, 11, 12, 12, 12, 12, 12, 12, 12, 12, 12</u>
IT whiting			· . /			
Mail to the attention of: Mailing Address	Cell	Moder	City State, Zip	••••	Build	Copies Required
Sales ID # Market Name Do you currently have service with BelSouth Mobility?	Yes D No	xisting cellular =	5994 Dyes	ad Source Reterred b	/	C Account #
Account a Activition Date CVS Credit a / Authoriz	ation #	Credit Class	Deposit Amount Cellular Phone	121 92	9.22	4.11
	ACCOUNT IN	FORMATION				
MEGANODEL ESUMSN	UNLOCK CODE	PURCH COE DEM RE	ENTAL OTHER WARR P	ETTOP / LOC SITE	EO TYPE . PRICE	A
		ACCESSOF	TY DESCRIPTION	. OTY LOC	SITE EQ TYPE	PRICE
			·····			
		3				
			266 (ر او	
		INITIAL CHARGES	2LO 2 922 2 4 4 4 1 1 1	Signal Diat Di	rect ^e Plus Insurance	ti dangan Tangan Citang ang ang ang ang
MONTHLY SERVICE PLAN NAME TO THE TRANSPORT		and the fille and fille and the second	and the second	Accept	Decline	MacivElac
MINUTES INCLUDED IN PLAN	FIRST MONTH'S PROBA	TED		Premiun \$2.	vPhone Deductible 95 \$0	Deductible \$25
CUSTOM CALLING FEATURES	SERVICE ACTIVATION C		C Portable C Access	a/Transportable \$2.0 pries \$1.9	95 \$35 95 \$35	\$25 \$25
CALL FORWARDING THE CASE AND A CALLING THE FORMATING AND A CALL FORMATING AND A CALLING THE AND A THE AND A THE AND A TH	SECURITY DEPOSIT	HARGE (above)	If You subg	s in Your possession and in g	s insurance. You acknowledge (cod working order. You have rea or which the insurance is offered	that equipment ceived, need and \$ as outlined in
DETAIL BILLING MESSAGE CENTER A CARACTERISTIC AND	INSTALLATION CHARGE	IES (above)	the brochur fany, and freurants	A You acknowledge that insur pLoy-BollSouth Modelly, Requ rill be directed to Signal. A sur	ance protection is offered by the set for information for cizims re- nmany of coverage is available b	a insurance com- garding the by calling
EQUIPMENT INSURANCE	OTHER (specify)	ૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢ			مند با من	internet and a second
OTHER (specify)	TOTAL INITIAL CHARGES	n sa wili in the sol di digitali the solution of the			and the second	
TAXES						71808/42 20-725
NOTICE TO CUSTOMER	SERVICE A	GREENIENI	ter ele a deres e a a a a a	1	n an an an Arran an A Arran an Arran an Arr	
(a) Term. The charges for cellular service are specified above. Investmange for the this Agreement for an INITIAL TERM ("INITIAL TERM") OF, months	Company agreeing (customer's initials)	g to limit any increase in the	hese rates as explained t	elow, you agree to		
 The monthly service charge and any minutes included will be prorated for the n The first month's bill will show a monthly service charge for the following monthly 	umber of days in se subsequently you	ervice during the first billin will be billed one month in	g period. n advance.	n en		e.Ts.
All "Special Pricing Plans" are subject to eligibility requirements and approval. I	neligibility for "Speci	al Pricing" does not nullify	this agreement.		त्र के के किस्तार के क स्वार के किस्तार के किस्	
 When using your phone outside your home service area (roaming) rate may va Long distance is billed in addition to airtime. 	ry.	an a	in an baile tha a claim lain baile. Tha an tha chaile an tha claim	en e	in the state of th	nan sing dia panganan Tan Sulawanan Tan Sulawanan sing
• The appropriate liquidated damages (up to \$240.00) may apply for early cance	ilation (see paragra	oh 18) Smotion seconding Custom				
 Customer authorizes Company to check Customer's creat and to provide and Customer certifies that the pricing plan chosen has been explained and that the 	Customer understa	ands the components of th	e pricing plan, including t	out not limited to th	e activation fee, mor	nthly access
charges, usage charges, liquidated damages, applicable taxes, (rental agreement Customer elects to subscribe to BellSouth Mobility's	ents, where applicab signing below, the u	le) and agrees to same. ndersigned "Customer" ad	knowledges the accuracy	of the above infor	mation and has rece	sived a copy
of, read, understands, and accepts the attached Terms and Conditions of Service	Agreement (Form	#BSCC 11-97) Commenter Service Content and Street Service	an an Alain An Carlon an S An t-San San San S	and a strategy of the second secon Second second	ः ३०२३१२ः देख्यात्रीः सम् तृत् कृत्ये प्रतिष्ठि स्ट्राय्	197 (* 94.) 197 - 197
Check Box if Addendum is Attached for Additional Service Lines	n synthe min 1911 wie. 19 ann 11 ann airteanna	an the second of the second	ender van Begennen de Bege Bewennen de Begennen de Beg	an Barra an Araga An Aragana	્ય વેપણ જેવા પ્રકાર શિવા પંચ કરે. આંગણ જાણ જાણ જાણ જાણ જાણ જાણ જાણ જાણ જાણ જા	an tanàn an Antanàna a
en te statemen skultere en de se PAYMENT et en statement et	ny top greep angean b	Authorized Customer Signa	ature.	ي و د د وي ال المروم. يونو المروم ا	Constant Property Date	
Make checks payable to: BellSouth Mobility		X Y/ I	A T			2919
\$\$	Check 🖉 👯	Sales Representative / Age	Int Signature	an a	Date A	港等
	aift Certificate	XOT	11			29/9
UVISA Discover	oles antes collègia		CASH REGIST		ION	and the second s
Number Exp. Date		Customer will re	main on the rate r	lan selected	or a higher rate	e plan
By initialing here, customer authorizes company to charge future amounts due	under this	for a period of 1	80 days.			
		Other Comments:	an a sha sha sha sha sha sha sha sha		مِدْفُرَةٍ بِجُوْدَةٍ مَنْ مَنْ مَنْ مَنْ مَنْ مَنْ مَنْ مَنْ	124714455
		مى بىرى بىرى بىرى بىرى بىرى بىرى بىرى بى	เป็น รูปเวขาเสราช เป็นไปเกม ได้	1 a 2 of the state of the second	and with the	Con factor
Mannes in State Monthe Destination	NATION ST	Antonio	Starting and an and a start of the start of	and a strategy and and a strategy an	A CONTRACTOR OF ST	
			an a			2441-53-12.

	Welcome	B ell	lSouth	Mobi	<i>li</i> 0!		
					於胡波爾拉斯的意思	001/	463
	CUSTOMER INF	ORMATION -	Individual	<u>D</u> Busir	1088		
Name of Individual or Business Responsible for Bill Paymen	nt (Please Print)		Employer		•		Years employed
Street Antigers of Bergerselling Party - On Mar Ling PO Bor	(Act /Suite No.	Social Security Num	ber	1 1 1 1	Date of Birth	
Street Address of Hesponalde Party - 20 Hol Case A.C. Du	66 10 10		Driver's License Nur		-	·	
City Contraction	State	Zip					Sum
Dr. on Joca	N C	17767	Corporation D P	artnership 🖸 Governmen	t D Sole Proprietorship Years i	n business under presen	t ownership
Business Phone #	Home Phone #	100	Payment Contact:		Conta	ct #:	
	0 - -		Tax Exempt D Y	/es If yes, attach ce	ertificate Exempt Certifice	le f	
		ACCOUNT I	NFORMATION		Liber	Phone 6	
User Name	Address .		City State, Zip				
Mail to the attention of:	Mailing Address			City State.	, Zip		Bill Copies Required
Sales ID # Market Name	Tai Do you currently have service	lf yes.	existing cellular #	A	evenue? Lead Source Refe	nred þy	
166KB (1210	with BellSouth Mobility? Add service line to existing account?	O Yes O No	<u>, 7 </u> - 149-	19130	Ci Yes Ci No	Kay	C Min
Account # Acti	ivation Date CVS Credit # / Auth	orization #	Credit Class	Deposit Amount · C	Cellular Phone #	NO IN	7,7,9,21
		ACCOUNT	NFORMATION		<u>1-1-1</u>	<u>, i j j j</u>	
MFG/MODEL	ESNMEN	UNLOCK CODE	PURCH COE DEM	RENTAL OTHER	WARR PERIOD LOC S	ITE EQ TYPE	PRICE
<u> </u>	1/1:1/19/09/11		X		1 190-		<u>-9798</u>
ACCESSORY DESCRIPTION	OTY LOC SITE E	TYPE PRICE	ACCES	SORY DESCRIPTION	YTO Y	LOC SITE EQ	TYPE PRICE
1 116 176	2 2	733 112	3				
							•
2			4	ACES			l
	JEN1						·····
MONTHLY CH	ARGES 16 Konstant	1	INITIAL CHARGES		Accept.	Dial Direct+ Plus Insurar	
MONTHLY SERVICE PLAN NAME	<u>sa</u>	ADVANCED MONTHLY F	RORATED			Monthly Loss/C Premium/Phone Dedu	Damage MecryElec Intible Doductible
PEAK OFF-PEAK	<u></u>	FIRST MONTH'S PROFU	ATED ES	1.16	Mobile Portable/Transportable	\$2.95 \$	0 \$25 35 \$25
CUSTOM CALLING FEATURES		SERVICE ACTIVATION C	CHARGE	Nfi -	C Accessories	\$1.95 \$	35 \$25
C CALL WAITING	and the second	EQUIPMENT / PHONE C	HARGE (above)	***	If You subscribe to Signal Dial Di listed here is in Your possession understand the terms and condition	ecte Plus Insurance, You a and in good working order. Ins under which the insurar	cknowledge that equipment You have received, read and toe is offered as outlined in
DETAIL BILLING MESSAGE CENTER	and a substance between star	INSTALLATION CHARGE			the brochure. You acknowledge to pany, and not by BellSouth Mobili insurance with be directed to Sign.	hat insurance protection is on ty. Request for information al. A summary of coverage	for claims regarding the is available by calling 4
		OTHER (specify)	1673.c	110 .	1-800-480-0167.	and the	
ROADSIDE ASSISTANCE	e.g	TAXES			00		<u>2 / K</u> 7. 6 6 9
TAXES	·	TOTAL INITIAL CHARGE	s		PC:	A Ter Main	1.(153-
	· · · · · · · · · · · · · · · · · · ·	SERVICE A	GREEMENT	· • • • • • • • • • • • • • • • • • • •	···	•	an an an
NOTICE TO CUSTOMER					Valained below You as	aa to maintain o	dular convice under
 (a) Ierm. The charges for cellular service a this Agreement for an INITIAL TERM ("INI" 	TIAL TERM") OF	the Company agreein hs (customer's initials	ig o limit any increase i	n these rates as e	xplained below, fou age	ee to maintain ce	,
The monthly service charge and any min	nutes included will be prorated for the	e number of days in s	ervice during the first bi	lling period.			
 The first month's bill will show a monthly All "Special Pricing Plans" are subject to 	v service charge for the following more eligibility requirements and approva	nth, subsequently you I. Ineligibility for "Spec	al vill be billed one monti al Pricino" does not nu	n in advance. Ilifv this adreement	t.		N
 When using your phone outside your hold 	me service area (roarning) rate may	vary.			• • •		
Long distance is billed in addition to airti	ime.				- •	· .	
 The appropriate liquidated damages (up Customer authorizes Company to check 	to \$240.00) may apply for early can Customers credit and to provide an	cellation (see paragra	iph 18) prmation reparding Cust	tomer with credit bi	184385.		
 Customer certifies that the pricing plan c 	chosen has been explained and that I	he Customer underst	ands the components of	f the pricing plan, in	ncluding but not limited	to the activation	lee, monthly access
charges, usage charges, liquidated dama	ages, applicable taxes, (rental agree	ments, where applicat	ble) and agrees to same	acknowledges the	accuracy of the above	information and I	has received a coov
of, read, understands, and accepts the atta	ached Terms and Conditions of Servi	ice Agreement (Form	#BSCC 11-97).	aoniomeuges life	accorder of the above		
Check Box if Addendum is Attached	for Additional Service Lines	x	14				· · ·
	PAYMENT		Authorized Customer Si	gnature		······································	Date
			x 1.1/1	$\langle / / \rangle$	19-		11/1/27
Make checks payable to: BellSouth N	Abbility		Sales Berthandinting	Arent Signature		<u> </u>	Date
5	Cash \$	Check B	a oaloo Hepipogrikalive / /				· · · · · · · · · · · · · · · · · · ·
	CC ¢	Cith Contiliants		16. 1.	La se		1. Jahla
Beneint # / BO # / Gift Contificate #	CC	_Gift Certificate	x Ch	<u>des dr</u> e	1 rue		11/5/21

And and the set of the	
CASH REGISTER VALIDATION	معلوم العربي المراجع مديني الأرب المراجع المراجع

Customer will remain on the rate plan selected	d or a higher rate plan
for a period of 180 days.	and the second sec
Other Comments:	
Anterio de la companya de la company	
and the second	and a start of the start of the start

ondin troppic and the deal and deal in the deal of the the

By initialing here, customer authorizes company to charge future amounts due under this service agreement to the credit card account listed above

Discover

MasterCard
 American Express

U VISA

Number Exp. Date

	:.		۰,	÷	
_		•			_
	·	•			

Welcome Bel	lSouth Mobilit
CUSTOMED INCODUCTION	
Name of individual or Business Responsible for Bill provinery (Please Print)	The involution of the involuti
Street Addryle of Responsible Party - Do Nor Use P.O. Bar ApJ.Suite No.	Social Socia
City State 20	Driver's License Number
Business Prover Lensborry KY 4230,5	Corporation Destryfulip Dignernment/Disole Proprietorship Veers in business under present ownership Peyment Contact:
5021-1618151-804147 111-1111-111	Tax Exempt D Yes
User Name Address	ChySule, Zp
Mail to the attention of: Mailing Address	City State, Zp Bill Copies Required
Salvis ID # Market Name Do you currently have service with BetSouth Mobility? Dives D No If yes,	existing cellular #
Account # Activation Date CVS Credit # / Archinization #	Credit Class Deposit Amount Celluer Thone # 2
ACCOUNT	NFORMATION
1-1VU. JV4 9100 178/ (23862352 00000000000000000000000000000000000	PURCH COE DEM RENTL OTHER WARKAGE ADD LOC SITE COTYPE PRICE
ACCESSORY DESCRIPTION OTY LOC SITE EQ TYPE PRICE	
SERVICE INFORMA	
MONTHLY SERVICE PLAN NAME PLET	INITIAL CHARGES
MINUTES INCLUDED IN PLAN ADVANCED MONTHLY F	PROPATED is specifying control to the set of the Monthly of LossDamage in
CUSTOM CALLING FEATURES D CALL FORWARDING D 3WAY CALLING SECURITY DEPOSIT	AARGE SIGNATION SIGNATURA SIGNATION
O CALL WAITING	HARGE (above) that a strain of the second strain of
MESSAGE CENTER	AIES (above)
CTHER (specify)	s CNUM
SERVICE A	GREEMENT
NOTICE TO CUSTOMER (a)Term. The charges for cellular service are specified above. In exchange for the Company agreein bits Agreement for one INITIAL TERM (SINTIAL TERM) OF	g to mit any increase in these rates as explained below. You agree to maintain cellular service under
 The monthly service charge and any minutes included will be prorated for the number of days in s The first monthly service charge and any minutes included will be prorated for the number of days in s 	rvice during the first billing period.
 All "Special Pricing Plans" are subject to eligibility requirements and approval ineligibility for "Spec When using your phone difficiency of the service area (maximum) rate may ineligibility for "Spec 	ial Pricing" does not nullify this agreement.
Long distance is billed in addition to airline. The appropriate line divide of damages (in the \$240.00) may apply for early concellation (concerning).	ាក់ សំណាងសំណាយសំណាងសំណាយសំណាយសំណាយសំណាក់ សំណាញ់ អំណាញ់ អំណាញ់ សំណាញ់សំណាយសំណាយសំណាញ់សំណាញ់ អំណាញ់អំណាញ់អំណាញ់អំ សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណ សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណាញ់សំណា
Customer authorizes Company to check Customer's credit and to provide and exchange credit info Customer certifies that the pricing plan chosen has been explained and that the Customer understance	in rog rmation regarding Customer with credit bureaus.
charges, usage charges, liquidated damages, applicable taxes, (rental agreements, where applicable to charges, usage charges, liquidated damages, applicable taxes, (rental agreements, where applicable to charges, usage charges, liquidated damages, applicable taxes, the second secon	le) and agrees to same. The proof plant, including but not initial to the activation strategy in any decoust indexigned "Customer, acknowledges the accuracy of the above information and has received a copy
of, read, understands, and accepts the attached Terms and Conditions of Service Agreement (Form	#BSCC 11-97) ಆಕ್ರಾಂಜ ರಾಜ ಕರ್ನಾಟಕ್ಕೆ ಸ್ಥಾನಿಕ ಸ್ಥಾನಿಕ ಮುಂದು ಸಂಸ್ಥೆ ಸಾಹಿತಿ ಮಾಡಿದ್ದಾರೆ. ಬಿಂದಿಗಳು ಬಿಂದಿಗಳು ಗ್ರಾ ಸ್ಥಾನವು ಕರ್ಷೆಟ್ಟು ಸ್ಥಾನ ಸಾಹಾದ್ರ ಹಾಡಿದ ಸಂಸ್ಥೆ ಸಾಹಿತ ಕರ್ನಾಟಕ್ಕೆ ಸರ್ಕಿತಿ ಮಾಡಿದ್ದಾರೆ. ಕ್ರೀತ್ರಿ ಮಾಡಿದ ಕರ್ಷಕ್ರೆ ಮಾಡಿದ ಸ್ಥಾನವು ಸ್ಥಾನ ಸ್ಥಾನ ಸ್ಥಾನವು ಹಾಡಿದ ಸ್ಥಾನವರ್ಷ ಸ್ಥಾನ ಸ್ಥಾನವರ್ಷ ಸ್ಥಾನವರ್ಷ ಸ್ಥಾನವರ್ಷ ಸ್ಥಾನವರ್ಷ ಸಂಸ್ಥೆ ಹಾಡಿದ ಸ್ಥಾನ ಸ್ಥ
PAYMENT	Authorized Custor/er Signaturg
Make checks payable to: BellSouth Mobility	x M/ 1/5/9/98
Cash to S and the state of the	Sales Representative / Agent Signature
Receipt # / P.O. # / Gift Certificate #	X / DX44
UVISA DAte American Express Discover	CASH REGISTER VALIDATION
By initialing here, customer authorizes company to charge future amounts due under this	Customer will remain on the rate plan selected or a higher rate plan for a period of 180 days
	Other Comments
	en e

Welcome	D Bell	South 1	Mobili	●!		
			Y		UUL	2421
Name of Individual or Business Responsible for Bill Perment (Please Print)	JRMATION		<u>A Busines</u>	18	-	Years employed
Street Address of Responsible Party - Do Not Use P.O. Bar	Apt/Suite No.	Social Security Number	<u> </u>		Date of Birth	n and a start of the second
P.O. Box -del		Contraction of the second s	— — er			State
Ovenchano Y.G. 4	1307		Marship Di Governmeny Di	ole Proprietorship Years	in business under preser	ni ownership
Business Phone #	Busine	Payment Contact:	Jer- whit	Conta	act #:	
	ACCOUNT IN	FORMATION	ir yes, anach cerunca	Exempt Certifici		
User Name Address		City State, Zip	······	User	Phone #	
Mail to the attention of: Mailing Address			City State, Zip	· · · · ·	_ <u></u>	Bill Copies Required
Sales ID # Do you currently have service with BelSouth Mobility?	U Yes U No	isting cellular #	BILICIA Bevenue D Yes	9? Lead Source Refe	erred by	C Account #
Account a Artisette Bats 197 CVS Credit a Autor	rization #	Credit Class	Deposit Amount Cellular	Phone #	1291-1	9944
	ACCOUNT IN	FORMATION	······································			
Moterala 224 1944540		JECH COE DEM R	ENTAL OTHER W	ARR RERIOD LCC S		39.95
ACCESSORY DESCRIPTION OTY LOC SITE EQ		ACCESSO	RY DESCRIPTION	ντο 	LOC SITE EQ	TYPE PRICE
		3				
2 SERV			GES			
MONTHLY CHARGES		INITIAL CHARGES		Signal	Dial Direct ^e Plus Insurar	108
MONTHLY SERVICE PLAN NAME	ADVANCED MONTHLY PRO	RATED	en e	Accept	Monthly Loss/D remium/Phone Date	amage MectvElec
PEAK OFF-PEAK	FIRST MONTH'S PRORATE MINUTES	D	NO	Aobile Portable/Transportable	\$2.95 \$ \$2.95 \$	0 \$ 25 35 \$ 25
Call FORWARDING C 3-WAY CALLING	SERVICE ACTIVATION CHA SECURITY DEPOSIT	RGE		Accessories	\$1.95 \$1.95 \$1.95 \$1.95 \$1.95 \$1.95	35 \$25 knowledge that equipment
DETAIL BILLING MESSAGE CENTER	EQUIPMENT / PHONE CHA	AGE (above)		o here of in Your possession a erstany the terms and conditio brochure. You scinowieche th y, and noticy BeliSouth Robilit	ind in good working order, 1 Ins under which the insuran at insurance protection is o ly. Request for information (You have received, read and ce is offered as outlined in flered by the insurance com- lor claims regarding the
EQUIPMENT INSURANCE	EQUIPMENT ACCESSORIE OTHER (specify)	S (above)		0-400167	A summary of coverage s	s available by colling
OTHER (specify)	TAXES	52	2.35 ∞	- WIC	<u></u>	in dualahdu Tanàn ang ang ang ang ang ang ang ang ang an
	SERVICE AG	BEEMENT		·····		
NOTICE TO CUSTOMER (a)Term. The charges for cellular service are specified above.	e Company agreeing	o limit any increase in t	hese rates as explain	ed below, You agre	ee to maintain ce	Ilular service under
 this Agreement for an INITIAL TERM ("INITIAL TERM") OF, months The monthly service charge and any minutes included will be prorated for the initial service charge and any minutes included will be prorated for the initial service charge and any minutes included will be prorated for the initial service charge and any minutes included will be prorated for the initial service charge and any minutes included will be prorated for the initial service charge and any minutes included will be prorated for the initial service charge and any minutes included will be provided will be provid	s (customer's initials number of days in sen	rice during the first billin	g period.			
 The first month's bill will show a monthly service charge for the following month All "Special Pricing Plans" are subject to eligibility requirements and approval. 	h, subsequently you wi Ineligibility for "Special	Il be billed one month in Pricina" does not nullify	advance.	•		in Anglini, an Sangtini, anglini, anglini, Anglini, anglini, anglini, ang
When using your phone outside your home service area (roaming) rate may va Long distance is billed in addition to airtime.	ary.	and Antonization (· · · · · ·	
The appropriate liquidated damages (up to \$240.00) may apply for early cance	Ilation (see paragraph	18)	••••••		• • •	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
 Customer authorizes company to check customer's creat and to provide and Customer certifies that the pricing plan chosen has been explained and that the 	exchange credit inform e Customer understand	nation regarding Custon Is the components of th	er with credit bureau e pricing plan, includi	is. ing but not limited t	o the activation f	ee, monthly access
charges, usage charges, induidated damages, applicable/axes, (rental agreemic Customer elects to subscribe to BellSouth Mobility's	ents, where applicable) signing below, the und) and agrees to same. ersigned "Customer" ad	knowledges the accu	racy of the above i	nformation and h	as received a copy
Check Box If Addendum is Attached for Additional Service Lines	- Agreement (Form #D	यात्रिः केञ्चार कार्यकार स्वर्थने केञ्चार कार्यकार स्वर्थने केञ्चर कार्यकार	na sanana. Mara ya kata kata			
PAYMENT		uthorized Customer Signa	iture	• · · · · ·		Date / /
Make checks payable to: BellSouth Mobility		$\mathbf{x} = \frac{1}{1}$	The	en de la seconda d seconda de la seconda de		12/72/47
\$Cash \$	Check	ales Representative Age	nt Signature			Date
\$CC \$C Beceint # / PO, # / Gift Certificate #	Bift Certificate	IAA			الاردىنى مەرىپى ئەرىپى دۆلىر	12/0/51
VISA Discover		XXXXX	CASH REGI	STER VALID	ATION	
Number Exp. Date		Customer will re	main on the rat	e plan selecte	d or a highe	r rate plan
by initialing nere, customer authorizes company to charge future amounts due service agreement to the credit card account listed above	under this	for a period of 18	30 days.	• • •		
ORIGINAL SOFFICE A VELCOV SCIENTSALESPENSON, IRAN - 1617	MERCOLOMINE	Other Comments:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	الم		ath <u>a chuirtean a</u> athreach Mais
When some to some sum Ishik some sy		ing signations. The second second	n til stære som		an an ann an	
		and an				

() Welcome to In	ited States Cellul
	2954458
CUSTOMER INFORMATIO	DN 🔲 Individual 🗍 Business
Name of Individual or Business Responsible for Bill Payment (Please Print)	Employed Years employed
Street Address of Responsible Party - Do Not Use P.O. Box Apl/Suite No.	Social Security Number Date of Birth
$\frac{P \cdot (1 \cdot 1) \cos S \left(\frac{1}{2} \right)}{\operatorname{State}} = \frac{Zip}{Zip}$	Driver's License Number
Ovensbary 14 47302	Deporation D Partnership D Government D Sole Proprietorship Years in business under present ownership
5000000000000000000000000000000000000	Tax Exempt Q Yes II yes, attach certificate Exempt Certificate #
User Name Address	City, State, Zip
Mail to the attention of: Mailing Address	City, State, Zip
Sales ID . Market Narke CUL S - Market Narke CUL S - Market Narket Narket Narket No. 1 Market Narket Narket Narket Narket Narket Narket No. 1 Market Narket Nar	If yes, existing cellular 2.9 - 8.9.0 4 herenue? Lead Source Referred by
Account # Activation Date CVS Credit # / Authorization #	Credit Class Deposit Amount Cellular Phane - 2- 1929-191101
EQUIP	MENT INFORMATION
MEGINGOEL ATUR 460 ESTIMON 701639643UNLOCKO	ODE PURCH COE DEM RENTAL OTHER WARR PERIOD LOC SITE EG TYPE PRICE 9. 9.
ACCESSORY DESCRIPTION QTY LOC SITE EQ TYPE	PRICE ACCESSORY DESCRIPTION OTY LOC SITE EQ TYPE . PRICE
1 Penu halk: CHG (0432)	19.913
2	4
	ORMATION AND CHARGES INITIAL CHARGES Signal Dial Direct [®] Plus Insurance
TAINUTES INCLUDED IN PLAN	DNTH'S PROPARED Premium/phone Deductible Deductible MINUTES MINUTES Deductible Deductible Deductible ACTIVATION CHARGE Mobile \$2.95 \$0 \$25 ACTIVATION CHARGE Mobile \$2.95 \$35 \$25 INDUCTION CHARGE Mobile \$2.95 \$35 \$25 INTON CHARGE Mobile \$2.95 \$35 \$25 INTON CHARGE MODINE For the formation of the rest futures, two achrowidge that the equip- ment issue here is blow processions and pood working of the instance, two achrowidge that the equip- ment issue here is blow processions and pood working of the instance is there as a comboil of the instance is the instance is there as a comboil of the instance is the instance of the instance is the instance is the instance of the instance is the instance is the instance is the instance of the instance of the instance of the instance of the instance
of the Company's damages. You agree to pay the Company such amount in addition to, and r By signature below, Subscriber confirms the truth and completeness of t TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS AGREEMENT, V AGREEMENT BY THIS REFERENCE. Subscriber further authorizes any per- credit records or history. In the event of unauthorized signature by an agent for amounts not paid when due.	not in lieu of, all other charges for services due and owing hereunder. he above information. SUBSCPIBER ACKNOWLEDGES READING, AND AGREES TO, ALL WHICH TERMS AND CONDITIONS ARE PART OF AND HEREBY INCORPORATED INTO THIS sonal references or consumer reporting/credit agencies to furnish <i>Company</i> Subscriber's of a corporate or other business subscriber, the undersigned agrees to be individually liable
PAYMENT	Authorized Customer Signature Date
sCash Cher	k Saies Representative August Spinature
\$CC \$Gift Certifica	$te_{10} \times 10^{10}$
Receipt # / P.O. # / Gift Certificate #	CASH REGISTER VALIDATION
Number Exp. Date By initialing here, customer authorizes company to charge future amounts due under this service agreement to the credit part account listed above	
DRIGINAL - OFFICE YELLOW - AGENTISALESPERSON, G PINK - CUSTOMER SING Thank you for selecting United States Cellula	

() Welcome to Ni	ted States Celluter ! 2954459
Name of Individual or Business Responsible for Bill Payment (Please Print)	Employer Years employed
Mestern Ky loas	A Social Security Number Date of Birth
Street Addressed Responsible Party - Do Not Use P.O. Box Apt/Suite No.	Individual Driver's License Number State
$\int_{10}^{10} O_{10} Panshond + \frac{1}{2} + \frac{1}$	Deriporation D Partnepphip & Government D Sole Proprietorship Years in business under present ownership
Business Phone # Home Phone # Gold 2 62/7	Business Payment Contact:/ CFT Contact # Conta
10001-107-07-07-07-07-07-07-07-07-07-07-07-07-0	
User Name Address	City, State, Zip
Mail to the attention of: Mailing Address	City, State, Zip
Sales ID # Market Name Jurisdicion Do you currently have service to No with US Cellular? Units INO Add service line to existing account? Units INO	If yes, existing cellular # Provide the second and
Account # Activation Date CVS Credit # / Authorization #	Credit Class Deposit Amount Collular Phone #2 - 929-19104
EQUIPM	IENT INFORMATION
HEGMODIEL HOVE 460 ESAMEN 806639649 UNLOCK COC	DE PURCE COE DEM RENTAL OTHER WARKFIERIOD LOC SITE ED TYPE PRICE 9.95
ACCESSORY DESCRIPTION OTY LOC SITE EO TYPE PR	ACCESSORY DESCRIPTION OTY LOC SITE EQ TYPE PRICE
1 PONCA 1411 (176 / 10432 / 1	
2 SERVICE INFO	4 BMATION AND CHARGES
MONTRY CHARGES AN OC	INITIAL CHARGES Signal Dial Direct [®] Plus Insurance
MINUTES INCLUDED IN PLAN	Monthly Loss/Damage Meth*Elec MiNUTES
TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS AGREEMENT, WI AGREEMENT BY THIS REFERENCE. Subscriber further authorizes any perso credit records or history. In the event of unauthorized signature by an agent of for amounts not paid when due.	HICH TERMS AND CONDITIONS ARE PART OF AND HEREBY INCORPORATED INTO THIS onal references or consumer reporting/credit agencies to furnish <i>Company</i> Subscriber's f a corporate or other business subscriber, the undersigned agrees to be individually liable
PAYMENT	Authorized Customer Signature
Make checks payable to: UNITED STATES CELLULAR \$Cash \$Git Certificate Receipt # / P.O. # / Gift Certificate #	X Sales Representative Agent Signature X X X X X X X X X X X X X X X X X X X
UVISA I MasterCard I American Express D Discover	CASH REGISTER VALIDATION
Number Exp. Date By initialing here, customer authorizes company to charge future amounts due under	
this service agreement to the credit card account listed above	na series de la companya de la company Reference de la companya de la company
CRIGINAL - OFFICE Y YELLOW - AGENT/SALESPERSON - PINK - CUSTOMER SUB Thank you for selecting United States Cellula	

Welcome to fite	d States Cellul o r	
		2819520
CUSTOMER INFORMATION	Individual Business	
Name of Individual or Business Responsible for Bill Payment (Please Print)	advorstryger Gradena	Years employed
Street Address of Responsible Party - Do Not 556 P.D. Box	dual Social Security Number	Date of Birth
DOB0x 466	Driver's License Number	State
City State Zip	A Solo Provide A Participation D Compared D Solo Prov	violenthin Marrie business and
Dienchung Home Phone 4 4/1002-(1860)	Payment Contact:	$\frac{1}{2} Contact # (a \le 5 - 1/7)$
5(1/2) - 6(2) - 6(1/1)	Tax Exempt Q Yes II yes, attach certificate	Exempt Certificate #
ACCOUNT I	NFORMATION	
User Name Address	City, State, Zip	
Mail to the attention of: Mailing Address	City, State, Zip	Bil Copies Required
Sales ID # Market Name , Tay, Do you currently have service II ves.	existino cellular # Revenue? Lead Sou	Jice Referred by (1) Account 6
Add service line to existing account? Yes D No	- - Sho G	S G MIN
Account # Activation Date CVS Credit # / Authorization #	Credit Class Deposit Amount Cellular Phone #	1-1512151-184102
EQUIPMENT	INFORMATION	
MEGINOGEL UNLOCK CODE PU	RCH COE DEM RENTAL OTHER WAREPERIOD	LOC SITE EQ TYPE PRICE
ACCESSORY DESCRIPTION OTY LOC SITE ED TYPE PRICE		OTY LOC SITE . EO TYPE PRICE
	3	
		Signal Dial Direct [®] Plus Insurance
ECUIPMENT INSURANCE OTHER (specify) ROADSIDE ASSISTANCE TAXES TOTAL INITIAL CHA TAXES TOTAL INITIAL CHA ANNUAL ACCEEMENT: EXTENDED TERM DI AN	GREEMENT	So o o viet
(a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> agreeing to limit any increase in these rates as explained below, You agree to maintain cellular service under this Agreement for an INITIAL TERM ("INITIAL TERMS") of 177 months (customer's initials 114). In addition, this agreement shall AUTOMATICALLY RENEW at the end of the INITIAL TERM for unlimited, successive 12-month terms ("RENEWAL TERMS") onlies You notify the <i>Company</i> of Your intention to terminate this Agreement in accordance with the provisions below. (b) Rates. The <i>Company</i> will notify You in writing at least 30 days prior to instituting any increase became effective, You may terminate this Agreement during such 30 day period in this manner, the EXTENDED TERM PLAN will remain in effect for the duration of each REMAULTERM. (c) of this Agreement during such 30 day period in the INITIAL TERM You may terminate this Agreement at any time within the RENEWAL TERM by notifying the <i>Company</i> in writing of Your intention to do so. Termination during this 30 day period is not subject to the provisions of Section (c) of this Agreement. If You do not terminate this Agreement during such 30 day period in this manner, the EXTENDED TERM PLAN will remain in effect for the duration of each REMAULTERM. (c) of this Agreement at the end of the INITIAL TERM (as set forth above) by notifying the <i>Company</i> in writing of Your intention to do so at least 30 days prior to the expiration of the INITIAL TERM. You may terminate this Agreement at any time within the RENEWAL TERM by notifying the <i>Company</i> in writing of Your intention to do so at least 30 days prior to the expiration of the INITIAL TERM (or at least 30 days prior to the expiration of the INITIAL TERM. You may terminate this Agreement at any time within the RENEWAL TERM by notifying the <i>Company</i> in writing of Your intention to do so at least 30 days prior to the expiration of the INITIAL TERM. You may terminate this Agreement at any time within the RENEWAL TERM by n		
Check Box II Addendum IS Attached for Additional Service Lines	Authorized Customer Signature	
Make checks pavable to: UNITED STATES CELLULAR of the set of the s	V-11/5-1-	Thicks
\$CashSCheck	Sales Representative / Acard Stanature	Date
\$Gift Certificate	V B C	4/15/5-
Receipt #/P.O. #/ Gift Certificate #	N Hon	open in the interview of the second
VISA Discover Discover	CASH REGISTER V	ALIDATION
Number Exp. Date		
By initialing here, customer authorizes company to charge future amounts due under this service agreement to the credit card account listed above		e e la proprio de la construcción de la marca La construcción de la construcción d
	an Talla an an an an an an Anna an Ann Bhaile an Anna a	
USC-SA25 sr (Rev.196		
Thank you for selecting United States Cellular		

Welcome to United States Cellule !

CUSTOMER INFORMATION 🔲 Individual 🕅 Business
tame of Individual or Business Responsible for Bill Payment (Please Print) Street Address St Responsible Party - Do Not Use P.O. Box Apt/Suite No. Individual Social Security Number
Driver's License Number State
State Zip Corporation D Partnership D Government D Sole Proprietorship Years in business under present ownership
Business Phone # Home Phone # Home Phone # Contact # 100 - Con
SD 1 - C 3 5 - SDD 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
ACCOUNT INFORMATION
Iser Name Address City, State, Zip User Phone #
sales ID # Market Name Unsection Add service Ine to existing account? U Yes INO I I Ves INO I I Ves INO I I Ves INO I I I I I I I I I I I I I I I I I I
Account # Activation Date CVS Credit # / Authorization # Credit Class Deposit Amount Cellular Phone #
EQUIPMENT INFORMATION
ALCESSORY DESCRIPTION BODY LOC SITE ED TYPE PRICE ACCESSORY DESCRIPTION OTY LOC SITE ED TYPE PRICE
1 3
2 4
SERVICE INFORMATION AND CHARGES
MONTHLY CHARGES Signal Dial Direct [®] Plus Insurance INITIAL CHARGES Signal Dial Direct [®] Plus Insurance IONTHLY SERVICE PLAN NAME Decime
COURDENT INSURANCE OTHER (specify) TAXES OTHER (specify) TAXES TOTAL INITIAL CHARGES
ANNUAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> agreeing to light any increase in these rates as explained below, You agree to maintain cellular service under this Agreement for an INITIAL TERM ("INITIAL TERM") of months (customer's initials) in addition, this agreement shall AUTOMATICALLY RENEW at the end of the INITIAL TERM for unlimited, successive 12-month terms ("RENEWAL TERMS") thies's You notify the <i>Company</i> of Your jotention to terminate this Agreement in accordance with the provisions below. (b) Rates. The <i>Company</i> will notify You In writing at least 30 days prior to instituting any increase in tharges for cellular service. During this 30-day period, and before the new rates become effective, You may terminate this Agreement during such 30 day period in this manner, the EXTENDED TERM PLAN, will remain in effect for the duration of each RENEWAL TERM. (c) Termination. If You have selected the EXTENDED TERM PLAN, You may terminate this Agreement at end of the INITIAL TERM. (c) Termination to do so at least 30 days prior to the expiration of the INITIAL TERM. You may terminate this Agreement at any time within the RENEWAL TERM by notifying the <i>Company</i> in writing of Your intention to do so at least 30 days prior to the expiration of the INITIAL TERM. You may terminate this Agreement at any time within the RENEWAL TERM by notifying the <i>Company</i> in writing of Your intention to do so at least 30 days prior to Your chosen date of termination. You acknowledge that any early terminate this Agreement during the INITIAL TERM by notifying the <i>Company</i> in writing of Your intention by the <i>Company</i> as provided in Paragraph 3 on the reverses side hereof, will damage the <i>Company</i> in an amount that is difficult to determine, but that \$

By signature below, Subscriber confirms the truth and completeness of the above information. SUBSCRIBER ACKNOWLEDGES READING, AND AGREES TO, ALL TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS AGREEMENT, WHICH TERMS AND CONDITIONS ARE PART OF AND HEREBY INCORPORATED INTO THIS AGREEMENT BY THIS REFERENCE. Subscriber further authorizes any personal references or consumer reporting/credit agencies to furnish *Company* Subscriber's credit records or history. In the event of unauthorized signature by an agent of a corporate or other business subscriber, the undersigned agrees to be individually liable for amounts not paid when due.

Check Box if Addendum is Attached for Additional Service Lines 2007 200 PAYMENT Make checks payable to: UNITED STATES CELLULAR ethen de stylet ilanderadi el modi S 9. j. $(d^{2})_{i}$ 14 C - 1 Check CĊ Gift Certificate 2 Receipt # / P.O. # / Gift Certificate # CASH REGISTER VALIDATION U VISA MasterCard O American Exp D Dis Number By initialing here, customer authorizes company to charge future amounts due under this service agreement to the credit card account listed above Suttle Press USC-SA25 PINK - CUSTOMER DRIGINAL - OFFICE 1 YELLOW - AGENT/SALESPERSON Thank you for selecting United States Cellular!

Welcome to In	ited States Cellul
	2819522
CUSTOMER INFORMATIC	DN Individual Business
Name of Individual or Business Hesponsible for Bill Payment (Prease Print)	Employed
Street Addrest of Responsible Party - Do Not Use P.O. Box Apt / Suite No.	Individual Social Security Number
City State Zp	Oriver's License Number
Ovenshann Ky LIZZIZ	Corporation D Partnership D Government D Sole Proprietorship Years in business under present ownership
	Business Payment Contact Image: Contact Image: Contact Tax Exempt Li Yes If yes, attach certificate Exempt Certificate
ACCC	DUNT INFORMATION
User Name Address	City, State, Zip User Phone #
Mail to the attention of: Mailing Address	City. State, Zip - Bill Copies Required
Sples ID # Market Name Tat Junisdetion Add Service Into to existing account? If Yes ID No.	Il yes, existing cellular # Revenue? Lead Source Reterred by Account #
Account # Activation Date CVS Credit # / Authorization #	Credit Class Deposit Amount Cellular Phone - G 7 9 - S 9 7 7
EQUIP	MENT INFORMATION
MFGNODEL MALLA ESNMSN MALLA NZIZIAUL	DE PURCH COS DEM RENTAL OTHER WARR PERIOD LOC SITE ED TYPE PRICE
ACCESSORY DESCRIPTION COT LOC SITE EQ TYPE	PRICE ACCESSORY DESCRIPTION OTY LOC SITE EQ TYPE PRICE
1	3
2	4
MONTHLY SERVICE PLAN NAME	E MONTHLY CHARGE ONTHS PRORATED MINUTES MINUTES MINUTES OTHER MINUTES OTHER MINUTES MINUTES OTHER MINUTES MINU
Access of the second se	Date Ustomer signature
\$Cash \Cher	Sales Representative / Agent Signature
\$Gift Certifica	10 X // ////////////////////////////////
UISA MasterCard Control American Express	CASH REGISTER VALIDATION
Number Exp. Date	
By initialing here, customer authorizes company to charge future amounts due under this service agreement to the credit card account listed above	
ORIGINAL - OFFICE, SYELLOW - AGENTSALESPERSON : PINK = CUSTOMER, Sum US	
Thank-you for selecting United States Cellul	

vvelcome to n	ited States	s Celluler.	1
			2819523
CUSTOMER INFORMATIC	DN 🔲 Individual	Ø Business	
Name of Individual or Business Responsible for Bill Payment (Please Print)	Employer	e a fra de la companya de la company La companya de la comp	Years employed
Street Address of Responsible Party - Do Not Use P.O. Box Apt/Suite No.	Individual Social Security Nu		Date of Birth
City C Cox Clo C State Zip	Driver's License N		State
Business Phone Ky 12302	Business Payment Contact:	Partnership D Government D Sole Proprie	lorship Years in Dusiness under present ownership
551-6851-6001 11-11-11-11-11	Tax Exempt.	Yes If yes, attach certilicate Ex	empt Certificate #
User Name Address	City, State, Zip		User Phone #
Mail to the attention of Mailing Address	-SAME -	City, State, Zip	Bill Copies Required
Sales ID # MarkeyName Junisocom Do you currently have service with US Cellular?	If yes, existing cellular #	Bevenue? Lead Source	e Referred by . C Account #
Account # Activation Date CVS Credit # / Authorization #	Credit Class	Deposit Amount : Cellular Phone #	- K- K- QG DI
EQUIP	MENT INFORMATION	1-51/12	427 × 7×1
MEGAJOPAL LESNIMSN HIBEIAFL	CODE PURCH COE DEM . R	ENTAL OTHER WARR PERIOD	LOC SITE EQ TYPE PRICE
ACCESSORY DESCRIPTION OTY LOC SITE EQ TYPE	PRICE ACCESSO	DRY DESCRIPTION	QTY LOC SITE EQ TYPE PRICE
1	3		
		E0	
MONTHLY CHAPGES			Signal Dial Direct [®] Plus Insurance
MONTHLY SERVICE PLAN NAME C.	E MONTHLY CHARGE		Monthly Loss/Damage Mech/Elec Premium/phone Deductible Deductible
CUSTOM CALCING FEATURES	MINUTES	D Mobile D Portable/Transp	\$2.95 \$0 \$25 ortable \$2.95 \$35 \$25 \$1.95 \$35
D CALL FORWARDING D 3-WAY CALLING	IY DEPOSIT	If You subscribe to S ment listed here is in	Signal Dial Direct [®] Plus Insurance, You acknowledge that the equip- Your possession and in good working order, You have received,
DETAILED BILLING MESSAGE CENTER	ATION CHARGE	esad and understood outined in the broch insurance company, claims regarding the	I the terms and concluons under which the insurance is offered as ure. You acknowledge that insurance protection is offered by the and not by United States Celular. Requests for information for insurance will be directed to Signel. A summary of coverage is avail-
COUIPMENT INSURANCE OTHER (s	specify)	able by cally? 1-800	14000197. 1 1 111000 \$ 50 000
OTHER (specify)		PC Street	and \$ 75 m AM
ANNUAL AGREEMENT: EXTENDED TERM PLAN	VICE AGREEMENT	these rates as explained below 1	You pareo to maintain collutor convice under
ANVAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> this Agreement for an INITIAL TERM ("INITIAL TERM") of 12 months (customer's in unlimited, successive 12-month terms ("RENEWAL TERMS") unless You notify the <i>Compa</i> l	y agreeing to imit any increase in fulais [[]]. In addition, this ag Ay of your intention to terminate t	n these rates as explained below, j preement shall AUTOMATICALLY R his Agreement in accordance with	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below
ANNAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> this Agreement for an INITIAL TERM ("INITIAL TERM") of 10 months (customer's in unlimited, successive 12-month terms ("RENEWAL TERMS") unless You notify the <i>Company</i> (b) Rates. The <i>Company</i> will notify You in writing at least 30 days prior to instituting any incr may terminate this Agreement by notifying the <i>Company</i> , in writing of Your intention to do so do not terminate this Agreement during such 30 days period in this meaner, the EXTENDED	y agreeing to imit any increase in fliats [1] . In addition, this ag Av of your intention to terminate to rease in charges for cellular servi so. Termination during this 30 day TERM PL AN will remain in affor	n these rates as explained below, j reement shall AUTOMATICALLY R his Agreement in accordance with ice. During this 30-day period, and period is not subject to the provis for the duration of each BENEW .	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below before the new rates become effective, You ions of Section (c) of this Agreement. If You AL TERM
ANNUAL AGHEEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the Company this Agreement for an INITIAL TERM ("INITIAL TERM") of <u>122</u> months (customer's in unlimited, successive 12-month terms ("RENEWAL TERMS") (Inless Xou notify the Compani (b) Rates. The Company will notify You in writing at least 30 days prior to instituting any incr may terminate this Agreement by notifying the Company, in writing, of Your Intention to do s do not terminate this Agreement during such 30 day period in this manner, the EXTENDED (c) Termination. If You have selected the EXTENDED TERM PLAN, You may terminate this intention to do so at least 30 days prior to the expiration of the INITIAL TERM. You may terminate this	y arceing to imit any increase in fusis [1] . In addition, this ag the of your intention to terminate the rease in charges for cellular servi- so. Termination during this 30 day TERM PLAN will remain in effect & Agreement at the end of the INI erminate this Agreement at any ti	n these rates as explained below, j reement shall AUTOMATICALLY R his Agreement in accordance with ice. During this 30-day period, and period is not subject to the provis t for the duration of each RENEW. TIAL TERM (as set forth above), me within the RENEWAL TERM	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below before the new rates become effective, You ions of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your by notifying the Company in writing of Your
ANNUAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> this Agreement for an INITIAL TERM ("INITIAL TERM") of <u>12</u> months (customer's in unlimited, successive 12-month terms ("RENEWAL TERMS") these you notify the <i>Company</i> (b) Rates. The <i>Company</i> will notify <u>You</u> in writing at least 30 days prior to instituting any incr may terminate this Agreement by notifying the <i>Company</i> , in writing, of <u>You</u> intention to do so do not terminate this Agreement during such 30 day period in this manner, the EXTENDED (c) Termination. If <u>You</u> have selected the EXTENDED TERM PLAN, You may terminate this intention to do so at least 30 days prior to the expiration of the INITIAL TERM. You may terminate intention to do so at least 30 days prior to <u>Your</u> chosen date of termination. <u>You</u> acknowledge nation by the <i>Company</i> as provided in Paragraph 3 on the reverse side hereof, will damaget B	y acceing to init any increase in finite intervention to terminate to rease in charges for cellular servi- so. Termination during this 30 day TERM PLAN will remain in effect a Agreement at the end of the INI reminate this Agreement at any ti te that any early termination of thi the <i>Company</i> in an amount that is not in lieu of, all other charges for	n these rates as explained below, j reement shall AUTOMATICALLY R his Agreement in accordance with period is not subject to the provis t for the duration of each RENEW. TIAL TERM (as set forth above) me within the RENEWAL TERM is Agreement during the INITIAL difficult to determine, but that S_ services due and owing hereunde	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You ions of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your TERM, including, but not limited to a termi- transfer to the second because the second because the second compared by the second because the second because the second termination of the second because
ANNAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> , this Agreement for an INITIAL TERM ("INITIAL TERM") of 122 months (customer's in unlimited, successive 12-month terms ("RENEWAL TERMS") theses you notify the <i>Company</i> (b) Rates. The <i>Company</i> will notify you in writing at least 30 days prior to instituting any incr may terminate this Agreement by notifying the <i>Company</i> , in writing, of <u>Your</u> intention to do so do not terminate this Agreement during such 30 day period in this manner, the EXTENDED (c) Termination. If <u>You</u> have selected the EXTENDED TERM PLAN , <u>You</u> may terminate this intention to do so at least 30 days prior to the expiration of the INITIAL TERM . <u>You</u> may ter intention to do so at least 30 days prior to <u>Your</u> chosen date of termination. <u>You</u> ecknowledge nation by the <i>Company</i> as provided in Paragraph 3 on the reverse side hereof, will damage to by signature below, Subscriber confirms the truth and completeness of t TERMS AND. CONDITIONS ON THE: REVERSE SIDE OF:THIS AGREEMENT.	y agreeing to init any increase in hials 1.1.2. In addition, this ag A of your intention to terminate t rease in charges for cellular servi so. Termination during this 30 day TERM PLAN will remain in effect so Agreement at the end of the INI reminate this Agreement at any ti pe that any early termination of thi the <i>Company</i> in an amount that is not in lieu of, all other charges for the above information. SUE WHICH. TERMS AND CONDI	n these rates as explained below, j reement shall AUTOMATICALLY R his Agreement in accordance with ice. During this 30-day period, and period is not subject to the provis t for the duration of each RENEW. TIAL TERM (as set forth above). me within the RENEWAL TERM is Agreement during the INITIAL difficult to determine, but that S_ services due and owing hereunde SCRIBER ACKNOWLEDGES TIONS ARE PART OF AND H	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You ions of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your TERM, including, but not limited to a termi- term. TERM, including, but not limited to a termi- term. TERM, including, but not limited to a termi- term. S READING, AND AGREES TO, ALL IEREBY INCORPORATED INTO THIS
ANNUAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> this Agreement for an INITIAL TERM ("INITIAL TERM") of <u>T</u> months (customer's in unlimited, successive 12-month terms ("RENEWAL TERMS") unless You notify the <i>Company</i> (b) Rates. The <i>Company</i> will notify You in writing at least 30 days prior to instituting any incr may terminate this Agreement by notifying the <i>Company</i> , in writing, of Your Intention to do so do not terminate this Agreement during such 30 day period in this manner, the EXTENDED (c) Termination. If You have selected the EXTENDED TERM PLAN, You may terminate this intention to do so at least 30 days prior to the expiration of the INITIAL TERM. You may terminate this intention to do so at least 30 days prior to Your chosen date of termination. You ecknowledge nation by the <i>Company</i> as provided in Paragraph 3 on the reverse side hereof, will damaget to of the <i>Company</i> 's damages. You agree to pay the <i>Company</i> such amount in addition to, and r By signature below, Subscriber confirms the truth and completeness of t TERMS AND CONDITIONS ON THE REVERSE SIDE OF, THIS AGREEMENT, M AGREEMENT BY-THIS-REFERENCE. Subscriber further authorizes any per credit records or history in the event of unauthorized signature by an agent of	y agreeing to imit any increase in fliais	n these rates as explained below, j reement shall AUTOMATICALLY R his Agreement in accordance with ice. During this 30-day period, and period is not subject to the provis t for the duration of each RENEW TIAL TERM (as set forth above). me within the RENEWAL TERM is Agreement during the INITIAL difficult to determine, but that S services due and owing hereunde SCRIBER ACKNOWLEDGES TIONS ARE PART OF AND H mer. reporting/credit agencie ness subscriber, the undersi	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You ions of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your TERM, including, but not limited to a termi- term. including, but not limited to a termi- Co. On represents a reasonable estimate S READING, AND AGREES TO, ALL IEREBY INCORPORATED INTO THIS as to furnish Company Subscriber's igned agrees to be individually liable
ANNUAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> this Agreement for an INITIAL TERM ("INITIAL TERM") of <u>1</u> months (customer's in unlimited, successive 12-month terms ("RENEWAL TERMS") unless You notify the <i>Company</i> (b) Rates. The <i>Company</i> will notify You in writing at least 30 days prior to instituting any incr may terminate this Agreement by notifying the <i>Company</i> , in writing, of <u>Your</u> intention to do so do not terminate this Agreement during such 30 day period in this manner, the EXTENDED (c) Termination. If <u>You</u> have selected the EXTENDED TERM PLAN, You may terminate this intention to do so at least 30 days prior to the expiration of the INITIAL TERM. <u>You</u> may ter- intention to do so at least 30 days prior to <u>Your</u> chosen date of termination. <u>You</u> exknowledge nation by the <i>Company</i> as provided in Paragraph 3 on the reverse side hereot, will damage to of the <i>Company</i> 's damages. <u>You</u> agree to pay the <i>Company</i> such amount in addition to, and r By signature below, Subscriber confirms the truth and completeness of t TERMS AND CONDITIONS ON THE REVERSE SIDE OF, THIS AGREEMENT, V AGREEMENT. BY-THIS-REFERENCE. Subscriber further authorizes any per credit records or history in the event of unauthorized signature by an agent of for amounts not paid when due.	y agreeing to imit any increase in fliats [1] . In addition, this ag Av of your intention to terminate to rease in charges for cellular servi- so. Termination during this 30 day TERM PLAN will remain in effect & Agreement at the end of the INI eminate this Agreement at any ti ge that any early termination of thi the Company in an amount that is not in lieu of, all other charges for the above information. SUE WHICH TERMS AND CONDI- rsonal references or consul of a corporate of other busi	In these rates as explained below, j preement shall AUTOMATICALLY R his Agreement in accordance with ice. During this 30-day period, and period is not subject to the provis t for the duration of each RENEW. TIAL TERM (as set forth above), me within the RENEWAL TERM is Agreement during the INITIAL difficult to determine, but that S services due and owing hereunder SCRIBER ACKNOWLEDGES TIONS ARE PART OF AND H mer. reporting/credit agencie ness subscriber, the undersi	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You lons of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your by notifying the Company Subscriber is to furnish Company Subscriber's igned agrees to be individually liable
ANNUAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> this Agreement for an INITIAL TERM ("INITIAL TERM") of months (customer's in unlimited, successive 12-month terms ("RENEWAL TERMS") (Inless You notify the <i>Company</i> (b) Rates. The <i>Company</i> will notify You in writing at least 30 days prior to instituting any inco- may terminate this Agreement by notifying the <i>Company</i> , in writing, of Your intention to do so do not terminate this Agreement during such 30 day period in this manner, the EXTENDED (c) Termination. If You have selected the EXTENDED TERM PLAN, You may terminate this intention to do so at least 30 days prior to Your chosen date of termination. <u>You</u> exchanged in at the <i>Company</i> samped the interview of the interview of the interview of the <i>Company</i> samped as the selected the EXTENDED TERM PLAN, You may terminate this intention to do so at least 30 days prior to Your chosen date of termination. <u>You</u> exchanged nation by the <i>Company</i> as provided in Paragraph 3 on the reverse side hereof, will damage to of the <i>Company</i> 's damages. You agree to pay the <i>Company</i> such amount in addition to, and r By signature below, Subscriber confirms the truth and completeness of t TERMS AND CONDITIONS ON THE REVERSE SIDE OF,THIS AGREEMENT, W AGREEMENT BY-THIS-REFERENCE.: Subscriber further authorizes any per credit records or history. In the event of unauthorized signature by an agent of for amounts not paid when due. C Check Box if Addendum is Attached for Additional Service Lines	VICE AGREEMENT y agreeing to imit any increase in fusis [1] . In addition, this ag two of your intention to terminate to rease in charges for cellular servi so. Termination during this 30 day TERM PLAN will remain in effect & Agreement at the end of the INI erminate this Agreement at any ti ge that any early termination of thi the <i>Company</i> in an amount that is not in lieu of, all other charges for the above information. SUE WHICH TERMS ANE CONDI rsonal, references or consul of a corporate of other busi	n these rates as explained below, j reement shall AUTOMATICALLY R his Agreement in accordance with loc. During this 30-day period, and period is not subject to the provis t for the duration of each RENEWA TIAL TERM (as set forth above) me within the RENEWAL TERM is Agreement during the INITIAL- difficult to determine, but that S services due and owing hereunde SCRIBER ACKNOWLEDGES TIONS ARE PART OF AND H mer, reporting/credit agencie ness subscriber, the undersi	Cou agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You ions of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your TERM, including, but not limited to a termi- transformer in the termi- termination termination termination termi- termination termination terminatis terminatis terminatis termin
ANNUAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> this Agreement for an INITIAL TERM ("INITIAL TERM") of months (customer's in unlimited, successive 12-month terms ("RENEWAL TERMS") (Inless You notify the <i>Company</i> (b) Rates. The <i>Company</i> will notify You in writing at least 30 days prior to instituting any inco- may terminate this Agreement by notifying the <i>Company</i> , in writing, of Your intention to do so do not terminate this Agreement during such 30 day period in this manner, the EXTENDED (c) Termination. If You have selected the EXTENDED TERM PLAN, You may terminate this intention to do so at least 30 days prior to Your chosen date of termination. You excharwed the intention to do so at least 30 days prior to Your chosen date of termination. You excharwed the of the <i>Company</i> as provided in Paragraph 3 on the reverse side hereof, will damage to do the <i>Company</i> as provided in Paragraph 3 on the reverse side hereof, will damage to the <i>Company</i> so the subscriber confirms the truth and completeness of t TERMS AND CONDITIONS ON THE REVERSE SIDE OF, THIS AGREEMENT, V AGREEMENT BY THIS REFERENCE. Subscriber further authorizes any per credit records or history in the event of unauthorized signature by an agent of for amounts not paid when due. Check Box if Addendum is Attached for Additional Service Lines Make checks payable to: "UNITED STATES CELLULAR	VICE AGREEMENT y areeing to imit any increase in fusis [1] . In addition, this ag v of our intention to terminate t rease in charges for cellular servi- so. Termination during this 30 day TERM PLAN will remain in effect s Agreement at the end of the INI erminate this Agreement at any ti- the this Agreement at any ti- the this Agreement at any ti- the company in an amount that is not in lieu of, all other charges for the above information. SUE WHICH TERMS AND CONDI- rsonal, references or consul of a corporate of other busi Authorized Customer Signature X	n these rates as explained below, j reement shall AUTOMATICALLY R his Agreement in accordance with lice. During this 30-day period, and period is not subject to the provis t for the duration of each RENEW. TIAL TERM (as set forth above) me within the RENEWAL TERM is Agreement during the INITIAL difficult to determine, but that SJ services due and owing hereunde DSCRIBER ACKNOWLEDGES TIONS ARE PART OF AND H mer. reporting/credit agencie ness subscriber, the undersi	Cou agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You ions of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your TERM, including, but not limited to a termi- transformer in the terminate of the terminate of the terminate S READING, AND AGREES TO, ALL IEREBY INCORPORATED INTO THIS as to furnish Company Subscriber's igned agrees to be individually liable
ANNUAL AGHEEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> this Agreement for an INITIAL TERM ("INITIAL TERM") of months (customer's in unlimited, successive 12-month terms ("RENEWAL TERMS") theses you notify the <i>Company</i> (b) Rates. The <i>Company</i> will notify you in writing at least 30 days prior to instituting any income terminate this Agreement by notifying the <i>Company</i> , in writing, of your intention to do so do not terminate this Agreement during such 30 day period in this manner, the EXTENDED (c) Termination. If you have selected the EXTENDED TERM PLAN, you may terminate this intention to do so at least 30 days prior to the expiration of the INITIAL TERM. You may terminate this intention to do so at least 30 days prior to Your chosen date of termination. You acknowledge nation by the <i>Company</i> as provided in Paragraph 3 on the reverse side thereof, will damaget to the company's damages. You agree to pay the <i>Company</i> such amount in addition to, and r By signature below, Subscriber.confirms the truth and completeness of t TERMS AND CONDITIONS ON THE REVERSE SIDE OF,THIS AGREEMENT, N AGREEMENT BY-THIS REFERENCE. Subscriber, further authorizes any per credit records or history. In the event of unauthorized signature by an agent for amounts not paid when due. Check Box if Addendum is Attached for Additional Service Lines Addendum is Attached for Additional Service Lines Cash	y areeing to irrit any increase ir fuisis [1] In addition, this ag two four intention to terminate t rease in charges for cellular servi so. Termination during this 30 day TERM PLAN will remain in effect is Agreement at the end of the INI erminate this Agreement at any ti the that any early termination of thi the <i>Company</i> in an amount that is not in lieu of, all other charges for the above information. SUE WHICH TERMS AND CONDIT rsonal references or consult of a corporate or other busi Authorized Customer Signature Ck Sales Refrased or / Agent the Sales Refrased of / Agent	n these rates as explained below, j reement shall AUTOMATICALLY R his Agreement in accordance with loc. During this 30-day period, and period is not subject to the provis t for the duration of each RENEW. TIAL TERM (as set forth above) me within the RENEWAL TERM is Agreement during the INITIAL difficult to determine, but that S services due and owing hereunde SCCRIBER ACKNOWLEDGES TIONS ARE PART OF AND H mer. reporting/credit agencie ness subscriber, the undersi	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You lons of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your pontifying the Company in writing of Your TERM, including, but not limited to a termi- COCO: represents a reasonable estimate S READING, AND AGREES TO, ALL IEREBY INCORPORATED INTO THIS es to furnish Company Subscriber's igned agrees to be individually liable Date Date Date
ANNUAL AGHEEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the Company this Agreement tor an INITIAL TERM ("INITIAL TERM") of	y greeing to imit any increase in fulsis [1] . In addition; this ag two of your intention to terminate to rease in charges for cellular servi- so. Termination during this 30 day TERM PLAN will remain in effect is Agreement at the end of the INI erminate this Agreement at any ti ge that any early termination of thi the Company in an amount that is not in lieu of, all other charges for the above information. SUE WHICH TERMS AND CONDI- risonal, references or consul of a corporate or other busi Authorized Customer Signatur Sales Regressingwy / Agent the	n these rates as explained below, j reement shall AUTOMATICALLY R his Agreement in accordance with ce. During this 30-day period, and period is not subject to the provis t for the duration of each RENEW. TIAL TERM (as set forth above) me within the RENEWAL TERM s Agreement during the INITIAL difficult to determine, but that S services due and owing hereunde SSCRIBER ACKNOWLEDGES TIONS ARE PART OF AND H mer. reporting/credit agencie ness subscriber, the undersite subscriber, the undersite content of the service	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You lons of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your TERM, including, but not limited to a termi- tree company in writing of Your TERM, including, but not limited to a termi- tree company in writing of Your TERM, including, but not limited to a termi- tree company in writing of Your TERM, including, but not limited to a termi- tree company in writing of Your TERM, including, but not limited to a termi- tree company in writing of Your TERM, including, but not limited to a termi- tree company in writing of Your TERM, including, but not limited to a termi- tree company in writing of Your TERM, including, but not limited to a termi- tree company in writing of Your TERM, including, but not limited to a termi- tree company Subscriber's igned agrees to be individually liable Date Date Uparticut Date
ANNUAL AGHEEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the Company this Agreement for an INITIAL TERM ("INITIAL TERM") of	y ereeing to imit any increase in fulsis [11] . In addition, this age two of your intention to terminate the rease in charges for cellular servi- so. Termination during this 30 day TERM PLAN will remain in effect is Agreement at the end of the INI erminate this Agreement at any ti ge that any early termination of thi the Company in an amount that is not in lieu of, all other charges for the above information. SUE WHICH. TERMS ANP CONDI- risonal, references or consul of a corporate of other busi all and the company of the company of a corporate of other busi sales Regression view / Agent the sales Regression of the company ck	n these rates as explained below, j preement shall AUTOMATICALLY R his Agreement in accordance with lice. During this 30-day period, and period is not subject to the provis t for the duration of each RENEWA TIAL TERM (as set forth above) me within the RENEWAL TERM is Agreement during the INITIAL difficult to determine, but that S services due and owing hereunde SCRIBER ACKNOWLEDGES TIONS ARE PART OF AND H mer. reporting/credit agencie ness subscriber, the undersi	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You ions of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your by notifying the Company in writing of Your TERM, including, but not limited to a termi- trepresents a reasonable estimate S READING, AND AGREES TO, ALL IEREBY INCORPORATED INTO THIS as to furnish Company. Subscriber's igned agrees to be individually liable Date United agrees to be individually liable
ANNUAL AGHEEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the Company this Agreement for an INITIAL TERM ("INITIAL TERM") of	y erceing to init any increase in fusisi [11]. In addition, this ag two of portintention to terminate t rease in charges for cellular servi- so. Termination during this 30 day TERM PLAN will remain in effect & Agreement at the end of the INI erminate this Agreement at any ti- ge that any early termination of thi- the Company in an amount that is not in lieu of, all other charges for the above information. SUE WHICH TERMS AND CONDI- rsonal, references or consul of a corporate of other busi Authorized Customer Signature Sales Regressingtwo / Agent the above information and the company of a corporate of other busi	n these rates as explained below, j preement shall AUTOMATICALLY R his Agreement in accordance with lice. During this 30-day period, and period is not subject to the provis- t for the duration of each RENEW. TIAL TERM (as set forth above) me within the RENEWAL TERM is Agreement during the INITIAL- difficult to determine, but that S services due and owing hereunder BSCRIBER ACKNOWLEDGES TIONS ARE PART OF AND H- mer. reporting/credit agencie ness subscriber, the undersi re- CASH REGISTER V/	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You lons of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your ty notifying the Company in writing of Your term. by notifying the Company in writing of Your term. COM: represents a reasonable estimate S READING, AND AGREES TO, ALL IEREBY INCORPORATED INTO THIS as to furnish Company Subscriber's igned agrees to be individually liable Date UNATER UNATER ALIDATION
ANNAL AGHEEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the Company this Agreement tor an INITIAL TERM ("INITIAL TERM") of	y greeing to imit any increase in fulsis [1] in addition; this ag av of your intention to terminate to rease in charges for cellular servi so. Termination during this 30 day TERM PLAN will remain in effect is Agreement at the end of the INI erminate this Agreement at any ti ge that any early termination of thi the <i>Company</i> in an amount that is not in lieu of, all other charges for the above information. SUB WHICH TERMS AND CONDI risonal, references or consul of a corporate or other busi Authorized Customer Signatur Sales Regressingtwo / Agent te	n these rates as explained below, j reement shall AUTOMATICALLY R his Agreement in accordance with loc. During this 30-day period, and period is not subject to the provis t for the duration of each RENEW. TIAL TERM (as set forth above) me within the RENEWAL TERM is Agreement during the INITIAL. difficult to determine, but that S_ services due and owing hereunde SCRIBER ACKNOWLEDGES TIONS ARE PART OF AND F mer. reporting/credit agencie ness subscriber, the undersi scale of the subscriber, the undersi CASH REGISTER V/	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You lons of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your by notifying the Company in writing of Your TERM, including, but not limited to a termi- Co Co: represents a reasonable estimate S READING, AND AGREES TO, ALL IEREBY INCORPORATED INTO THIS as to furnish Company Subscriber's igned agrees to be individually liable Date United agrees to be individually liable Allidation Date United agrees to be individually liable
ANNAL AGHEEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the Company this Agreement for an INITIAL TERM ("INITIAL TERM") of	VICE AGREEMENT y greeing to imit any increase in hists [1] . In addition; this ag two of your intention to terminate to rease in charges for cellular servi- so. Termination during this 30 day TERM PLAN will remain in effect is Agreement at the end of the INI erminate this Agreement at any ti ge that any early termination of thi he company in an amount that is not in lieu of, all other charges for the above information. SUE WHICH TERMS AND CONDI- rsonal references or consul of a corporate or other busi Sales Representation / Agent the Sales Representation / Agent the Press	n these rates as explained below, j reement shall AUTOMATICALLY R his Agreement in accordance with ce. During this 30-day period, and period is not subject to the provis t for the duration of each RENEW. TIAL TERM (as set forth above) me within the RENEWAL TERM s Agreement during the INITIAL difficult to determine, but that S services due and owing hereunde SCRIBER ACKNOWLEDGES TIONS ARE PART OF AND H mer. reporting/credit agencie ness subscriber, the undersion cash REGISTER V/	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You lons of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your protifying the Company in writing of Your TERM, including, but not limited to a termi- transformer in the straight of the straight of the section of of the section of the straight of the section of the straight of the section of the section of the section of the section of the section of the sec
ANNUAL AGRIEEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the Company this Agreement for an INITIAL TERM ("INITIAL TERM") of months (customer's in unlimited, successive 12-month terms ("RENEWAL TERMS") of less You notify the Company (in notify You in writing at least 30 days prior to instituting any income to a otherminate this Agreement during such 30 day period in this manner, the EXTENDED (C) Terminate this Agreement during such 30 day period in the INITIAL TERM. You may terminate this hard reserved to the expiration of the INITIAL TERM. You may terminate this intention to do so at least 30 days prior to the expiration of the INITIAL TERM. You may terminate this intention to do so at least 30 days prior to Your chosen date of termination. Type exknowledge and the Company's damages. You agree to pay the Company such amount in addition to, and r By signature below, Subscriber confirms the truth and completeness of to trems AND CONDITIONS ON THE REVERSE SIDE OF.THIS AGREEMENT, V AGREEMENT, BY THIS. REFERENCE. Subscriber further authorizes any per credit records or history. In the event of unauthorized signature by an agent of a mounts not paid when due. Check Box If Addendum Is Attached for Additional Service Lines Make checks payable to: UNITED STATES CELLULAR \$	VICE AGREEMENT y egreeing to init any increase in hiais [11]. In addition; this ag two of our intention to terminate to rease in charges for cellular servi- so. Termination during this 30 day TERM PLAN will remain in effect is Agreement at the end of the INI eminate this Agreement at any ti- ge that any early termination of thi the Company in an amount that is not in lieu of, all other charges for the above information. SUE WHICH TERMS ANP CONDI- rsonal references or consul- of a corporate of other busi- Sales Regressively / Agen- Ker Berness Sales Regressively / Agen- Ker Sales Regressively / Agen- Ker Ker Sales Regressively / Agen- Ker Ker Sales Regressively / Agen- Ker Ker Ker Ker Ker Ker Ker Ker	these rates as explained below, j preement shall AUTOMATICALLY R his Agreement in accordance with loc. During this 30-day period, and period is not subject to the provis t for the duration of each RENEWA TIAL TERM (as set forth above) me within the RENEWAL TERM is Agreement during the INITIAL difficult to determine, but that S services due and owing hereunde SCRIBER ACKNOWLEDGES TIONS ARE PART OF AND H mer. reporting/credit agencie ness subscriber, the undersi	You agree to maintain cellular service under ENEW at the end of the INITIAL TERM for the provisions below. before the new rates become effective, You ions of Section (c) of this Agreement. If You AL TERM. by notifying the Company in writing of Your term. Including, but not limited to a termi- term. COLOR TERM. Including, but not limited to a termi- term. S READING, AND AGREES TO, ALL IEREBY INCORPORATED INTO THIS as to furnish. Company. Subscriber's igned agrees to be individually liable Date Uniting of Your termine to be individually liable

Welcome to H	nited	State	es Cell	ulg	1	
					28	19518
CUSTOMER INFORMA		Individual	Busine	SS -		. 9 . 19
Name of Individual or Business Responsible for Bill Payment (Please Print)		Employer	nette de la composition de la			Years employed
Street Address of Responsible Party Do NotUse P.O. Box Apt/Suite	No. Individual	Social Security	y Number	1.1	Date of	X Binth
P.O. Box 566		Driver's Licens	se Number		<u> </u>	State
City State Zip	KCL(Corporation	D Partnership D Gover	iment D Sole Propri	etorship Years in busir	tess under present ownership
Business Phone # Home Phone #	Business	Payment Cont	act: Apl W	hiting	Contact #:	155-5100
569-768-8001 1.1-1.1-1.1-1		Tax Exempt	□ Yes If yes, atta	ch certificate 👘 E	xempt Certificate #	<u> </u>
Address	COUNT INFO	City. State, Zip	· · ·		User Phone #	
			-			
Mail to the attempting Address Mailing Address		SANY	- teny, sta	не, Zip		Big Copies Required
Sales ID # Market(Name Jurisdicion Address) Do you currently have service with US Cellular? D Yes with US Cellular?	D No No No	cellular #	-1111	Yes Source Sourc	ce Referred by	C Account # C MIN
Account # Activation/Date CVS Credit # / Authorization #	ik k	CreditClass	Deposit Amount	Cellular Phone #	- ICAIN K	11. 1016 H 11
	UIPMENT INFO	DRMATION		-210-1-		<u>11-171100</u>
MEGIMODEL / A YA ESNMEN	CK CODE PURCH	COE DEM	RENTAL OTHER	WARR PERIOD	LOC SITE EQ T	YPE PRICE
ACCESSORY DESCRIPTION OTY LOC SITE EO TYPE	PRICE	· ACCE	SSORY DESCRIPTION	190	QTY LOC SITE	EQ TYPE PRICE
			· · · ·	· .		
			2050			
SERVICE MONTHLY, CHARGES - Andrew Strategy and Report of the Configure		TAL CHARGES	NGES Max any de Mayo y wayof	i (g. ung)(gaun	Signal Dial Direct	Plus Insurance
MONTHLY SERVICE PLAN NAME ACT 59.99		RGE	<u></u>	· "超了这种子?"	Accept	Decline Loss/Damage Moch/Elec
PEAK OFF-PEAK	MINUTES		.11	Q Mobile ,	Premium/pho \$2.95	ne Deductible Deductible
CUSTOM CALLING FEATURES SEE	WICE ACTIVATION CHA	RGE	-p/l	D Portable/Trans	portable \$2.95	\$35 \$25 Second Street \$25
D CALL WAITING	UIPMENT / PHONE CHA	ARGE (above)	549.91	If You subscribe to ment listed here is	Signal Dial Direct [®] Plus Ins in Your possession and in g	surance, You acknowledge that the equip- good working order, You have received,
DETAILED BILLING MESSAGE CENTER	TALLATION CHARGE	S (above)		outlined in the brock insurance opmoan	thure. You acknowledge the y, and not by United States	It insurance protection is offered by the Cellular, Requests for information for
EQUIPMENT INSURANCE	HER (specify)		22 00	1 af apy making 1-80	* April 1	nono
OTHER (specity)	TAL INITIAL CHARGES	Ş	GAGE	PC	150,0	NDEL
TAXES	ERVICE AGRE	EMENT	Dord Die Arthur	, and the second se	an a	and Contract and And
ANNUAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. In exchange for the Con	pany screeing to V	mit any increas	e in these rates as e	xplained below,	You agree to mai	intain cellular service under
this Agreement for an INITIAL TERM ("INITIAL TERM") of 1 months (custome unlimited, successive 12-month terms ("RENEWAL TERMS") thress You notify the Co	r's initials (()) mpany of Your inter	In addition, this ntion to termina	agreement shall AU te this Agreement in	TOMATICALLY I accordance with	RENEW at the en h the provisions t	d of the INITIAL TERM for
(b) Rates. The Company will notify You in writing at least 30 days prior to instituting any may terminate this Agreement by notifying the Company, in writing, of Your intention to	do so. Termination	during this 30	ervice. During this 3 day period is not sub	-day period, and ject to the provi	d before the new sions of Section	rates become effective, You (c) of this Agreement. If You
do not terminate this Agreement during such 30 day period in this manner, the EXTENT (c) Termination. If <u>You</u> have selected the EXTENDED TERM PLAN, <u>You</u> may terminate	ED TERM PLAN to this Agreement at	will remain in ef	fect for the duration INITIAL TERM (as	of each RENEW set forth above)	AL TERM. by notifying the	Company in writing of Your
intention to do so at least 30 days prior to the expiration of the INITIAL TERM. You m intention to do so at least 30 days prior to Your chosen date of termination. You acknow	ay terminate this A riedge that any early	greement at an y termination of	y time within the RE this Agreement dur	NEWAL TERM	by notifying the TERM, including	Company in writing of Your g, but not limited to, a termi-
nation by the Company as provided in Paragraph 3 on the reverse side hereof, will dam of the Company's damages. You agree to pay the Company such amount in addition to,	age the <i>Company</i> in and not in lieu of, al	an amount the l other charges	for services due and	nine, but that S		sents a reasonable estimate
By signature below, Subscriber confirms the truth and completeness TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS AGREEMENT	of the above in NT, WHICH TERM	formation. S	UBSCRIBER AC		S READING, HEREBY INCO	AND AGREES TO, ALL RPORATED INTO THIS
AGREEMENT BY THIS REFERENCE. Subscriber further authorizes any credit records or history. In the event of unauthorized signature by an ac	personal refere	nces or con	sumer reporting/	credit agenci	es to furnish	Company Subscriber's to be individually liable
for amounts not paid when due.	ent of a corpora		r		ingricu ugreco	. Cline of the state of the
Check Box if Addendum is Attached for Additional Service Lines	يان و يو ي	te de la presidente de la companya d La companya de la comp			1994 - S. 199	
An and the Antonio PAYMENT of the State of the Antonio Payment	Autho	rized Customer Sig	nature	in a start and the second s		Date /
make cnecks payable to: UNITED STATES CELLULAR	Check		1 forthe	7		4/15/9
\$ Gift Cer	tificate	K		1		
Receipt # / PO. # / Gift Certificate	Ý	Star Star	1 card	Ante Ontaria G	Murisel 1980	4/15/-9
VISA Discover		H-	CASHI	REGISTER V	ALIDATION	and the second second
Number Exp. Date						
By initialing here, customer authorizes company to charge future amounts due u this service agreement to the credit card account listed above	nder 🗟 🕁 🚳 tarte	rår e terne so 1950 -	an in the state of the second seco	alisinainainaina alina di chisio	alligantingsold School in dealth	
	Simila Duradi					
UNIONAL UTILE STRUCTUM MELVION COLORIDAN MULTING CUSIOMEN AND	USC-SA25 Rev 1/96	en nem render Graf i Sedection		e ogge og værerendet som	a na an	an yan alawana ya mari shari nga 12 kan alam na kana nga nga nga nga nga nga nga nga nga
Thank you for solocting United States Coll	ilarl	and a second				
「「「しい」しい。」「しい」」「しい」」「「しい」」」「「しい」」」」「「しい」」」」「「「しい」」」」「「しい」」」」」」「「しい」」」」」」」」	www.saaalang	2 m	and a start of the start of the	906	St. Y. Mary May 1994	(1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4

: "

Welcome to Unit	ed States Cell	uler!
		281951/
	🗌 Individual 🔄 Busine	SS 1.
Name of individual of Business newpointing on Dia Payment (Privase Printy	Employer	Years employed
Street Address of Responsible Party - Do Not Use P.C. Box Apl./Suite No Inc	ividual Social Security Number	
City State Zip	Driver's License Number	State
Builder Charles barrow Ky 12302 0461	Corporation D Partnership D Govern	ment D Sole Proprietorship Years in business under present ownership Contact #:
5612-10851-56001	Tax Exempt 🖸 Yes II yes, atta	ch certificate Exempt Certificate #
ACCOUN User Name Address	City, State, Zip	User Phone #
Mail to the attention of	City Stat	e Zip
Schor 10 # Market Name Tex Do you currently have service (r)		venue? I Last Source Relayingt by
Jurisdiction Awith US Cellular? Use No Ves No Ves No		Yes Cold Sand Helene By Di Account # No Di MIN
Account # Activation Date CVS Credit # / Authonization #	Credit Class Deposit Amount	Ceitula Phone #
EQUIPMEN MFG/MODEL ESN/MSN (UNLOCK CODE	T INFORMATION	WARR PERIOD LOC SITE EQ TYPE PRICE
2 SERVICE INFORM	ATION AND CHARGES	
MONTHLY CHARGES	INITIAL CHARGES	Signal Dia Direct [®] Plus Insurance
MONINEY SERVICE PLAN AMME ADVANCE MON MINUTES INCLUDED IN PLAN FIRST MONTH'S	S PRORATED	Monthiy Loss/Damage Mach/Elcc Premium/phone Deductible Deductible
PEAK OFF-PEAK CUSTOM CALLING FEATURES SERVICE ACTIV	MINUTES	D Mobile \$2.95 \$0 \$25 D Portable/Transportable \$2.95 \$35 \$25 D Accessories \$1.95 \$255 \$255
D CALL FORWARDING D 3-WAY CALLING D CALL WAITING EQUIPMENT / F	OSIT HONE CHARGE (above)	If You subscribe to Signal Dial Direct [®] Plus Insurance, You acknowledge that the equip- ment Isted here is in Your possession and in good working gride, You have received,
DETAILED BILLING INSTALLATION INSTALLATION EQUIPMENT AC	CHARGE	 nadiand understood the lerms and conditions under which the insurance is offend as outfield in the brochner. You exhowing that insurance protection is foreignd by the insurance company, and not by United States Cellular. Enguests for information is valid data readmint the function to State Associated States Associated States descriptions and the direction to State Associated States and the states data readmint the functions will be directed to States descriptions descriptions
EQUIPMENT INSURANCE OTHER (specify) ROADSIDE ASSISTANCE TAXES). 	pp by calling 1.600-480-0187.
TAXES	CHARGES	and to take
ANNUAL AGREEMENT: EXTENDED TERM PLAN		
(a) Term. The charges for cellular service are specified above. In exchange for the <i>Company</i> agree this Agreement for an INITIAL TERM ("INITIAL TERM") of <u>Company</u> of the Company of the Company will notify You in writing at least 30 days prior to instituting any increase may terminate this Agreement during such 30 day period in this manner, the EXTENDED TERM (C) Termination. If You have selected the EXTENDED TERM PLAN, You may terminate this Agreement during such 30 days prior to the INITIAL TERM. You may terminate this Agreement during such 30 days period in this manner, the EXTENDED TERM (c) Termination. If You have selected the EXTENDED TERM PLAN, You may terminate this Agree intention to do so at least 30 days prior to the expiration of the INITIAL TERM. You may terminate this Agree intention to do so at least 30 days prior to Your chosen date of termination. You acknowledge that nation by the Company is amages. You agree to pay the Company such amount in addition to, and not in By signature below, Subscriber confirms the truth and completeness of the a TERMS AND CONDITIONS ON THE REVERSE SIDE OF. THIS AGREEMENT, WHO AGREEMENT BY THIS REFERENCE. Subscriber further authorizes any persona credit records or history. In the event of unauthorized signature by an agent of a to the second of the records or history. In the event of unauthorized signature by an agent of a to the second of the records or history. In the event of unauthorized signature by an agent of a to the second of the term and the second of the term and the second of the records or history. In the event of unauthorized signature bears and the second of the term and the second of the second of the term and the second of the sec	Englo (hoil any increase in these rates as end of the interminate this agreement shall AU your jubilition to terminate this Agreement in a lin Charges for cellular service. During this 30 mination during this 30 day period is not subjuil a PLAN will remain in effect for the duration of the INITIAL TERM (as a tat this Agreement at any time within the RE any early termination of this Agreement during monary in an amount that is difficult to determ lieu of, all other charges for services due and bove information. SUBSCRIBER ACK ALL TERMS AND CONDITIONS ARE PA ALL references or consumer reporting/of corporate or other business subscribes.	cplained below, You agree to maintain Cellular service under TOMATICALLY RENEW at the end of the INITIAL TERM for accordance with the provisions below. -day period, and before the new rates become effective. You of each RENEWAL TERM. set forth above) by notifying the Company in writing of Your NEWAL TERM by notifying the Company in writing of Your NEWAL TERM by notifying the Company in writing of Your NEWAL TERM by notifying the Company in writing of Your NEWAL TERM by notifying the Company in writing of Your NEWAL TERM by notifying the Company in writing of Your NEWAL TERM by notifying the Company in writing of Your NEWAL TERM by notifying the Company in writing of Your NEWAL TERM by notifying the Company in Writing of Your NEWAL TERM by notifying the Company in Writing of Your NEWAL TERM by notifying the Company in Writing of Your NEWAL TERM by Notifying the Company in Writing of Your NEWAL TERM by NOTIFY THE COMPAN IN THE STORE AND Second that Second
for amounts not paid when due.		
Check Box if Addendum is Attached for Additional Service Lines	Authorized Customer Signature	Page /
Make checks payable to: UNITED STATES CELLULAR	x A. I. C.t. to	7
\$Cash \$Check	Sales Re restingtive / Ageor Signature	Date (Strike Statistics Statistics Statistics
S Gin Certificate # Receipt # / PO. # / Gift Certificate #	X	1/15-150
UVISA D MasterCard American Express Discover	CASH F	EGISTER VALIDATION
Number Exp. Date	929-1930	729-2503
this service agreement to the credit card account listed above	929-3204	729-0930
ORIGINAL & OFFICE YELLOW - AGENT/SALESPERSON PINK - CUSTOMER : Sume Press Thank you for selecting United States Cellular!	929- 370S (836-6	929-250-1 859)

Welcome to inited	d States Cellul	
and the string of the string o		3273841
CUSTOMER INFORMATION	Individual	
Name of Individual or Business Responsible of Bill Payment (Piesse Print)	Employer	Years employed
Street Address of Responsible Party - Do Act Use P.O. Box	Iual Driver's License Number	
City Ding in bunnin VUE (12202	2 Corporation D Partnership D, Gevernment D Sole Prop	rietorship Years in business under present ownership
	Payment Contact:	Contact #: 685-87.00
	FORMATION	Exempt Certificate
User Name	City, State, Zip	
Mail to the attention of:	City, State, Zip	Bill Copies Required
Salos 10 54 Market Name Warket Name Service Uservice In the to existing account? By Yes No If yes, e	issting cellular # Control Con	Referred by
Account Activation act		2-1929-16311
MFGMODEL / ESNMEN SIDE SUMEN SUDE PUE	CH COE DEM RENTAL OTHER WARR PERIOD	
ACCESSORY DESCRIPTION OT LOC SITE ED TYPE PRICE	ACCESSORY DESCRIPTION	
1 A CONTRACT OF	na na sana ang sana Bang sana ang	
		(1) Level (2) A set of a set of the set o
MONTHLY CHARGES F	INITIAL CHARGES	Signal Dial Direct Plus Insurance
MONTHLY SERVICE PLAN NAME COULD THE ADVANCE MONTHLY SERVICE PLAN NAME FIRST MONTHLY SERVICE PLAN NAME	RATED	Monthly Ucss/Damage Micch/Elec & Prentium/phone Deductible Deductible
CUSTOM CALLING FEATURES D. CALL FORMARING D. SWAY CALLING	D Mobile D Portable/Trans D Accessories	sportable - 52.95 525 525 525 525 525 525 525 525 525 5
D. CALL WAITING DETAILED BILLING	CHARGE (above) GE (above) GE (above)	Slogel Dial Direct [®] Plast Insurance, You acknowledge that the equip- inforce poissestion infort a good working order, You have riceshed. Inforce poissestion infort a good working order, You have riceshed.
MESSAGE CENTER	SORIES (above)	thum Nou acknowledge that insurance protection is offered by the "" wrand hot by United States Calutar, Requests for promation for, "" he insurance will be directed to Signal. A summary of coverage is swall- out source of the coverage of the state of the output of the state of
ROADSIDE ASSISTANCE		
TAXES TOTAL INTIAL CHAR	GES GREEMENT	
ANNUAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. If gxeepange for the Company agreeing this Agreement for an INITIAL TERM (INITIAL TERM) of the Agreement for an INITIAL TERM (INITIAL TERM) of the Agreement for the Initial Agre	to lim) any increase in these rates as explained below,	You agree to maintain cellular service under BEREW at the and of the INITIAL TERM for
unlimited, successive 12-month terms ("RENEWAL TERMS") unless you notify the <i>Company</i> of Your (b) Rates. The <i>Company</i> will notify <u>You</u> in writing at least 30 days prior to instituting any increase and	intertion to terminate this Agreement in accordance with arges for cellular service. During this 30-day period, an	h the provisions below. d before the new rates become effective, You
may terminate this Agreement by notifying the <i>company</i> , in writing, of <u>your</u> intention to do so: Terminat do not terminate this Agreement during such 30 day period in this manner; tho EXTENDED_TERM PL (c) Termination. If <u>You</u> have selected the EXTENDED_TERM PLAN , <u>you</u> may terminate this Agreeme	ition during this 30 day period is not subject to the prov AN will remain in effect for the duration of each RENEY at the end of the INITIAL TERM (as set forth above	Islons of Section (c) of this Agreement if <u>fou</u> VAL TERM) by notifying the <i>Company</i> in writing of, <u>Your</u>
Intention to do so at least 30 days prior to the expiration of the INITIAL TERM. You may terminate the Intention to do so at least 30 days prior to Your chosen date of termination. You acknowledge that eny nation by the Company as provided in Paragraph 3 on the reverse side hereof, will damage the Compa	his Agreement at any time within the RENEWAL TERM early termination of this Agreement during the INITIAL my in an amount that is difficult to determine, but that S	by notifying the <i>Company</i> in writing of <u>Your</u> TERM, including, but not limited to, a termi- vepresents a reasonable estimate
of the <i>Company's</i> damages. You agree to pay the <i>Company</i> such amount in addition to, and not in lieu By signature below, Subscriber confirms the truth and completeness of the abov	of, all other charges for services due and owing hereund e Information. SUBSCRIBER ACKNOWLEDGE	er. ES READING, AND AGREES TO, ALL
TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS AGREEMENT, WHICH T AGREEMENT BY THIS REFERENCE: Subscriber further authorizes any personal re	ERMS AND CONDITIONS ARE PART OF AND ferences or consumer reporting/credit agenci	HEREBY INCORPORATED INTO THIS les to furnish <i>Company</i> Subscriber's
for amounts not paid when due.	iorate of other dusiness subscriber, the under	signed agrees to be individually liable
Check Box if Addendum is Attached for Additional Service Lines	Authorized Customer Signature	Dato
Make checks payable to: UNITED STATES CELLULAR	x W/ Watin	4/2/19
s Gift Certificate	Sales Representative / Acentr Storature	Calcola
Receipt # / PO. # / Gift Certificate #		
UVISA D MasterCard D American Express D Discover		
By initialing here, customer authorizes company to charge future amounts due under		
CHILD SERVICE AGREEMENT OF THE CHEMIC AND ACCOUNT INSIDE BOOYE		
Inankyou for selecting United States Cellularies		

Welcome t	o United State	es Celluler ! 32738	31 :0
CUSTOMER I			Contraction and the second
Name of Individual of Business Responsible for Bill Parment (Please Print)	And Shifts No.	Ver Ny Number	ars employed
P.O. Bay 866	HAB 302	se Number □ Partnership /□/ Government to Sole Proprietorship Years in business under onesent	State
Business Phone SJZ-1685-18/00 Home Phone Home Phone	Business Payment Con Tax Exempt	act: Appl by attach certificate Exempt Certificate #	6100
	ACCOUNT INFORMATION		
Mail to the attention of:	City, State, Zip	User Phone #	Copies Required
Sale's ID # Market Name A subscription with US Cellular?		- 63// Revenue? Lead Source Referred by	D Account # MiN
101.0147		51121-192191-131	2111
MEGMODEL MCLASSICA 224/10/05/10 ACCESSION DESCRIPTION			ry. GT
			PHICE
2 A State of	تر المراجع الم ما ير المراجع ال	an a	
and the second	ERVICE INFORMATION AND CHAI	RGES	dig manihes a
MONTHLY CHARGES MONTHLY SERVICE PLAN NAME	INITIAL CHARGES ADVANCE MONTHLY CHARGE FIRST MONTH'S PRORATED MINUTES SERVICE ACTIVATION CHARGE SECURITY DEPOSIT EQUIPMENT / PHONE CHARGE (above) INSTALLATION CHARGE EQUIPMENT ACCESSORIES (above) OTHER (specify) TAXES TOTAL INITIAL CHARGES	Signal Dial Direct [®] Plus Insurance Accept Monthly 12 LossDamage Promumphore Doublaid Define Promumphore Doublaid Definite/Transportable S2.85 S2.95 S35 DAccessories S35 S55 S55 S55 S55 S55 S55 S55	MactyClic Declarible \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25
ANNUAL AGREEMENT: EXTENDED TERM PLAN (a) Term. The charges for cellular service are specified above. Indexfhange of this Agreement for an INITIAL TERM ("INITIAL TERM") of month unlimited, successive 12-month terms ("RENEWAL TERMS") of month (b) Rates. The Company will notify You In writing at Least 30 days prior to ling may terminate this Agreement during such 30 day period in this manner, it (c) Terminate this Agreement during such 30 day period in this manner, it (c) Terminate this Agreement during such 30 day period in this manner, it (c) Terminate this Agreement during such 30 day period in this manner, it (c) Terminate this Agreement during such 30 day period in the INITIAL TERM (c) Terminate this Agreement during such 30 day period in the INITIAL TERM (c) Terminate this Agreement during such 30 day period in the INITIAL TERM (c) Terminate this Agreement during such 30 day period in the INITIAL TERM (c) Terminate and you have selected the EXTENDED TERM PLAN, You may intention to do so at least 30 days prior to Your chosen date of termination. J nation by the Company as provided in Paragraph 3 on the reverse side hered of the Company's damages. You agree to pay the Company such amount in a By signature below, Subscriber confirms the truth and comp TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS AG AGREEMENT BY THIS REFERENCE. Subscriber further author credit records or history. In the event of unauthorized signature for amounts not paid when due. Check Box If Addendum is Attached for Additional Service	SERVICE AGREEMENT for the <i>Company</i> egreeing to limit any increas a (customer's inflais). In addition, this stify the <i>Company</i> of Your Intention to termina tituting any increase in charges for cellular a intention to do so. Termination during this 30 to e EXTENDED TERM PLAN will remain in ef y terminate this Agreement at the end of the RM. You may terminate this Agreement at an (cu acknowledge that any early termination of of, will damage the <i>Company</i> in an amount tha didition to, and not in lieu of, all other charges leteness of the above information. S GREEMENT, WHICH TERMS AND CON rizes any personal references or con- by an agent of a corporate or other bu	se in these rates as explained below, You agree to maintain cellular es agreement shall AUTOMATICALLY RENEW at the end of the INITIA the this Agreement in accordance with the provisions below. Initiate this Agreement in accordance with the provisions of Section (c) of this Agree day period is not subject to the provisions of Section (c) of this Agree frect for the duration of each RENEWAL TERM. INITIAL TERM (as set forth above) by notifying the <i>Company</i> in w y time within the RENEWAL TERM by notifying the <i>Company</i> in w this Agreement during the INITIAL TERM, including, but not ilmite at is difficult to determine; but that \$ Coresents a reason tor services due and owing hereunder. UBSCRIBER ACKNOWLEDGES READING, AND AGREE IDITIONS ARE PART OF AND HEREBY INCORPORATED sumer reporting/credit agencies to furnish <i>Company</i> Su usiness subscriber, the undersigned agrees to be individ	service under 1. TERM for effective, You ement if You while of Your riting of Your riting of Your riting of Your riting of Your riting of Your site, a termi- able estimate S TO, ALL INTO THIS ubscriber's ually liable

Check Box if Addendum is Attached for Additional Service Lines	
PAYMENT	Authorized Customer Signature
Make checks payable to: UNITED STATES CELLULAR \$	X John Sales Represented Agent Signature X Cash REGISTER VALIDATION
This service agreement to the credit card account insted above	n an
Thank you for selecting United States Cellular!	

	eome (Balls	outh A		00422194
Name of Individual or Business Responsible for Bill Payforth (Plesse Print)	STOMER INFOR			A BUSINESS	Years employed
NOSKAN LY (095	ระสมสารแรง มหารูปให้สุดได้ •าตรู 1994 ในประการแรก พระการสุดสุดสุดส	and the second sec	Social Security Number	en dues in the second secon	Date of Birth
Street Address of Responsible Party, Do Nor Use PO. Bar	្មេត្តសំខាត់ ភ្នំនំនោះ សារាទេសន៍ កើតខ្លាំងកំពុង ដំនែននោះសារាទេសន៍	C/Suite No.	Driver's License Number		Sinte
City State	(1.7.	Z10 2/1,2	D Convertion D Partice	anhio D Goverforcefrit D Sóle Proorieto	nho Yean in business (index oneset) comercia
Business Phone # Home Phone #	1.6		Payment Contact:	Ictfulity	Contact # 00 5 8700
JU1 94-11 8 FIS/PP 11	- -		Tax Exempl O Yes		ampl Certificate # 10 10 10 10 10 10 10 10 10 10 10 10 10
Liner Name	an ta an an an A. A. A.	ACCOUNT INFO	City State, Zip	l del 1915 i Stan andre en Artikari Titali	User Phone #
	Mailian Arthrees	L SHAFTAR IN	nta algebra de la set	City State. Zip	
Mean Down and the former of the fragment of the former of		in a start series and the series of the s Series of the series of the s Series of the series of the	ng de la constante de la const Este de la constante de la const	Aller Aller Anna Aller A	
1001519 UTG W Add serv	th BellSouth Mobility?	Yes D No SER	1-131/161-11	716 Q No	
Account & Activation Date	CVS Credit # / Authorizat	tion # the set of the	Credit Cless De	sposit Amount Cellular Phone a	1-13/161-1110175
NEGADOFI	e a r <u>æs bast</u> ien.	ACCOUNT INFO		THE OTHER WARR PERIO	
Sever Windless 2060	0025681		ÿ	and the state of the N.C.	
		PE the the total PRICE, 1981 2949	ACCESSOR		OTY CONSTRUCTION OF PRICE
1	era de la sera en el apresenta antenen el ant Antenen el antenen el a	alar (1962) 20. 1984 3 5 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1	ana artica artica a tanàna ar	લુ કરવું છેલે પશ્ચ છેલે છે. સુધ રસ્તુ કુલ્લા છેલે છેલે છેલે છે. સુધ રસ્તુ કુલ્લા છેલે છેલે છેલે છે.	
2				en and an	and the second s
MONTHLY CHARGES	SERVIC		IN MIND CRAFTE	n under andere ander	Signal Dial Direct Plus Insurance 172111111111
MONTHLY SERVICE PLAN NAME + ++++++++++++++++++++++++++++++++++	31. E. T	ADVANCED MONTHLY PROPA	re dia anti a sain in tra	ing and the latest statest	Accept
PEAKS OFF-PEAK	NO	FIRST MONTH'S PRORATED	<u></u>		\$2.95 \$0 \$2.95 \$0
CUSTOM CALLING FEATURES		SERVICE ACTIVATION CHARG	e dus a la l <u>a la</u> Managera <u>vació</u> s	1 Accessories	\$1.95 535 525
	an a	EQUIPMENT / PHONE CHARG	E (above)	Bild here is in Your understand the to	ur possesion and in good working order. You have received, read and as and conditions under which the insurance is offered as outlined in stopping the fearming brokection is offered by the insurance com-
MESSAGE CENTER	्रात्रे राज्यात् कार्यक्रम हिन्द्र स राज्यात्राय्यक्र राज्येद्वा हिन्द्र हो राज्य	EQUIPMENT ACCESSORIES (above)	Ingração vil be 1-800-480-0167.	includ to Signal. A summary of coverage is available by calling
BOADSIDE ASSISTANCE	म्बद्धाः तत्रुक्षाः दिन्द्राः देशसः	TAXES AND DURITO SING IN		oc_Ftd	-1-F 07/
TAXES	4 19 M (1	TOTAL INITIAL CHARGES	de la spécial de la secon	PC // et	
NOTICE TO CUSTOMER	and the second	SERVICE AGR	EEMENT	tales, converte record d'Estate d'Ale Record de la converte	
(a) Term. The charges for cellular service are specified abort the service are specified are specified are specified are speci	ve: In exchange for the	Company agreeing o	limit any increase in th	ese rates as explained below	v, You agree to maintain cellular service under
The monthly service charge and any minutes included w The first month's hill will show a monthly service charge	ill be prorated for the nu	imber of days in servic subsequently you will	e during the first billing	period. advance.	
All. Special Pricing Plans are subject to eligibility require	ements and approval. In	eligibility for "Special P	ricing" does not nullify	this agreement.	
• When using your phone outside your norm service area	(roaming) rate may vary	e na secon reperiod a la la secon de la secon de la secon de la secon de la seconda de la seconda de la second La nais como reperiod de la seconda de la	(1)220 x 12145 3 (1)34 (1) (1)271 235 (1)34 (1)4 (1)	nennen mit seinen nen men men Seinen seinen der Kennen seine seine	
 Statepropriate liquidated damages (up to \$240.00) may Clistomer, authorizes Company to check Customer's credit of the state of the stat	y apply for early cancella dit and to provide and ex	ation (see paragraph 1 kchange credit informa	8) tion regarding Custom	er with credit bureaus.	n an
Customer certifies that the pricing plan chosen has been charres usage charges liquidated damages, applicable	explained and that the C	Customer understands	the components of the	pricing plan, including but n	ot limited to the activation fee, monthly access
Customer elects to subscribe to BellSouth Mobility's	nonth agreement. By signature of Service A	gning below, the under Agreement (Form #BS	signed "Customer" ack CC 11-97).	nowledges the accuracy of t	he above information and has received a copy
Check Boy if Addendum is Attached for Additional S	ervice Lines		rite e's eigedaat viers Statististististististististi		an a
PAYMENT	entering for the second form the second Second states and the second	ung hat services Aut	horized Customer Signat		Date
Make checks payable to: BellSouth Mobility	a smill family	5. St. G. 85.5 X	-1/1/	THK.	3/19/9
Cash \$	en finse der sonstelle de seise verstelle anderen eine einer schlichten sonstelle sonstelle	Check a Sal	es Representative / Age	A Signature	Date / tel:/
S martine and a second se	Gl	ft Certificate	- N.U.	H	\$1/19/19
VISA O MasterCard O American Express	Discover			CASH REGISTER	VALIDATION
Number Exp. Date			Customer will re	main on the rate plan	selected or a higher rate plan
By initialing here, customer authorizes company to charge service agreement to the credit card account listed above	e future amounts due u	inder this 5.5	for a period of 18	80 days. <u></u>	
the short black which we short the anti-			Other Comments:		
			d in bitistic		an in the second second states and the second s
到他们和20月15岁这时以后					
	ALEXAND TO BE AND		43016.55.50 <u>7.0</u> 325		THE REAL PROPERTY OF A DESCRIPTION OF A

Welcome to Unite	d States Cellular !
	2545959
USTOMER INFORMATION	Employer Years employed
Mestern KY Gas	Social Security Number
reet Address of Responsible Party - Do Not Use P.O. Bax	Driver's License Number
Ty State Zp	Convertion D Partmenthip D Government D Scie Priorietorship Mars in bisiness inder generating
siness Priore e Home Phone e Busi	ness Payment Contact Contact = 10 5 - 8 100
SUIT-16551-15100	Tax Exempt O Yes If yes, attach certificate Exempt Certificate
Account I	NFORMATION City, State, Zip User Phone #
vil to the attention of:	City, State, Zip
The log state in the second state in the second state in the second state is the secon	avieting soliting # Revenue? Last Source Returned by O Association
DIOSA OBUNO UNIVERSITATION PARAMETERIA IN THE STATE	2-G74-1-14930 Ves Lead Solice Helened by DACCOUNT #
Activation Date (27 CVS Credit # / Authorization #	Credit Class Deposit Amount Celjuler Phone *
Latrons 3000 13810419138425	× 34 54.95
ACCESSORY DESCRIPTION OTY LOC SITE EQ TYPE PRICE	ACCESSORY DESCRIPTION OTY LOC SITE E0 TYPE PRICE
	A set of the set of th
	INTIAL CHARGES Signal Dial Direct [®] Plus Insurance
DITHLY SERVICE PLAN NAME HALANDE	Y CHARGE Decline The Activity Decline The Activity Reputy Provide Activity Reputy Repu
	INUTES D Mobile \$2.95\$23.0 \$22.5
CALL FORWARDING D 3-WAY CALLING	D Accessories \$1.95 \$33
CALL WAITING	NE CHARGE (above)
SSAGE CENTER	SSORIES (above)
ADSIDE ASSISTANCE	21) 50,00 Prid t
TTAL INITIAL CHA	Rees Per Much Michael
NNUALA SERVICE A	
a) term. i is Agreei olimited i	(a) in the any increase in these rates as explained below, <u>you</u> agree to manual central service under (b) in addition, this agreement shall AUTOMATICALLY RENEW at the end of the INITIAL TERM for intention to terminate this Agreement in accordance with the provisions below. (b)
y) Rates.T y increate in any termin do so. Termin	charges for cellular service. During this 30-day period, and before the new rates become effective, <u>You</u> nation during this 30 day period is not subject to the provisions of Section (c) of this Agreement. If <u>You</u>
o not termi) Terminat I R D M > bthis Agreem	LAN will remain in effect for the duration of each RENEWAL TERM, tent at the end of the INITIAL TERM (as set forth above) by notifying the Company in writing of Your
itention to jay terminate jedge that an terminate the construction to jay terminate jedge that an terminate the construction to jay terminate jedge that an terminate jedge th	this Agreement at any time within the HENEWAL 1 EKM by notifying the <i>company</i> in writing of 1001 by early termination of this Agreement during the INITIAL TERM, including, but not limited to, a termi-
f the Comp Acothy ind not in lier	u of, all other charges for services due and owing hereunoft.
ERMS AN	TERMS AND CONDITIONS ARE PART OF AND HEREBY INCORPORATED INTO THIS
redit reco	references or consumer reporting/credit agencies to furnish <i>Company</i> Subscriber's reported or other business subscriber, the undersigned agrees to be individually liable
or amounts not paid when due.) Check Box if Addendum is Attached for Additional Service Lines	
PAYMENT	Authorized Customer Signature
Vake checks payable to: UNITED STATES CELLULAR	X thread N Million
Cash \$Check	Sales Representative / Agent Signature
S Gift Certificate #	X (17 512/15)
□ VISA □ MasterCard □ American Express □ Discover	CASH REGISTER VALIDATION
Number Exp. Date	
By initialing here, customer authorizes company to charge future amounts due under his service agreement to the credit card account listed above	
A DUCC SA25 1	
hank you for selecting United States Cellular L	

1) N	Mobile # ()/	1. (166 2 ECN	1101615	2
ESN Change Q No Install Q C ion 2) N	Mobile # (507)	19669	21111125	665
Mobile Number 33) N	Mobile # (5(2)_3/	(1/(94) E.S.N	2:1.00015	7.54
60 1022365 Date	Mobile # ()	E.S.N		
CONSUMER - Complete Booss 12 3 3 + STALL COMMERCIAL/CORPO	RATE - Complete Boxes 1, 2, & 3	· Colosas	al	
NV10) 170451	Yes	<u> </u>	BELLSOUTH I	Mobility [•]
Market Agent Code Sales Rep. ***	Existing customer?			10 54
CONSUMER- RECEPTION OF THE SECOND AND A SECO		SERVICE PLAN SELECTED	1. 1. 1. K. K.C.	S <u>AU sera</u> p
Print the name and address of person responsible for charges ma	ade to this account:	CUSTOM CALLING FEATURES	a per monue	ರಾವ್ ನಿರ್ದೇಶವು ಇದನ್ನು ಬಿ ಗೆಲ್ಲಿ ಸ್ನಾನ್ ನೇ ಮುನ್ನು ಬಿ ಗೆ ಕ್ಲೇವಿ ಮಾಡು ಇವರಿಗಳು
Responsible Party First Name that De Wald S MI 101 114 / 20 Las (Nat	fne / contraction	 Call Waiting Call Forwarding 	<u>। भाषाः ।</u> स्राह्मस्य क्र	lad e na statut de la conse No d'Ar d'a se la fil
Billing Address/Post Office Box		 No Answer Transfer Three Party Conferencing 	\$ \$	
City Store Un+FG	$\frac{1}{2}$	O Any Two Features	\$	\$
Home Phone 1: Classic Visition of the state	<u>)(.)(.)(.)</u>	OTHER O Mobile Memo	\$	and Alexandra Nacional de la companya de
A PERSONAL CONTRACTOR OF STREET		Description Pager #	<u> </u>	
Social Security Number 1 (2) 2020/00 50 E 0 (2) 2020 (2) 2020	UNDER \$35,000 \$35,000 - \$49,999	Description		
Date of Birth	550,000 - 574,777 575,000 - 589,999 590,000 - 5105,999	Mobile-To-Mobile D Emergency Road Service	\$	н у 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 - 1919 -
Driver's License Number State	\$106,000 - \$114,999 \$115,000 & ABOVE	Detailed Billing Toll Restricted		4 C
O COMMERCIAL/CORPORATE - 12 M Standard Commercial		Incoming Calls Only Outgoing Calls Only	\$	•••• •
Up to 48-hour processing time	umber	C Miscellaneous	\$	\$
Company Name Number	er	LONG DISTANCE		
Supervisor's Name	No. Yrs. In	Cl: Other		
No riling a stad so parts (15) divid tanto tanto a stad and a stad a bar Does street address differ from billing address?? Yes * 1815 No 4 75	and the second sec	CELLULAR PHONE INSURANCE	a de la construcción de la constru La construcción de la construcción d	\$
Is this branch or subsidiary of the main office? Yes No	rship 🖸 Other	(Not available in all locations, (initial one)	Accept Decline	2000 (1993) 2000 (2000) 1999 - 2004 (2011) 1999 - 2004 (2011)
and the second sec	, in la that the uthan of such ment in the patheries grade house	• 🖸 Cellular Phone	Premium/Month Deductible \$ 2.95	and the second secon
Benk Name 13 T TICA CT Account Officer 12 Strand Phone Number 1	Account Number	: "If you subscribe to cellular pi	none insurance and/or emergency ro	ad service, you
Contact	Account Number	the terms and conditions und	er which same is offered outlined the	rein.
and the interview of the second and the terre of the second	Account Number	#I understand that in the event phone may be greater than the	of a loss, theft or damage, replacem ne original price.	ent of my cellular
Trade Reference: 700 Contact	Account Number	and the start and the second	an an an an an a share for free	ALL AND A LA
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above application of that it matched the signature and nomic on this selfsouth M that it matched the signature and nomic on this selfsouth M	ant's name and signature lobility Cellular Agreement.	Pager Number PIN Service BellSouth Paging Service may	be discontinued at any time with ha	s
ATACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applic and that it matched the signature and nome on this BellSouth M to a set of the signature and nome of the BellSouth M to a set of the signature and the signature of the set of the set of the set of the signature and the set of the set of the set of the set of the set Name of Company of the set of the	ant's name and signature lobility Cellular Agreement.	Pager Number PIN BellSouth Paging Service may Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE	be discontinued at any time with no by with BellSouth Cellular Service. In t entified by the mobile number above tinued.	s pendly, BellSouth the event the customer the paging service
ATACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applic and that it matched the signature and nomic on this BellSouth M. A same of Database from the second of the sells of the database provides a trace of the second of the sells of the provides a second of the second of the second of the sells of the provides a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the provides a second of the second of the second of the second of the provides a second of the second of the second of the second of the provides a second of the second of the second of the second of the second of the provides a second of the second of the second of the second of the second of the provides a second of the second of the second of the second of the second of the provides a second of the second of the second of the second of the second of the provides a second of the second of the provides a second of the	sant's name and signature lobality Cellular Agreement furves Signatury	Pager Number PIN Service BellSouth Paging Service may Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE (Excluding additional airtime	be discontinued at any time with no by with BellSouth Cellular Service. In t entified by the mobile number above tinued.	s pendity, BellSouth the event the customer t, the paging service s
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applia and that it matched the signature and nomic on this BellSouth M and Distance are set of the set	conti name and signature lobility Celhular Agreement. stores Signature 7, Classical State State State State State DESCRIPTION	Proger Number PIN Service BellSouth Paging Service may Paging Service is available or concels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE Excluding additional airtime SERIAL MSN	be discontinued at any time with no by with BellSouth Celhular Service. In t entified by the mobile number above tinued. Charges and taxes!	s penalty BellSouth the event the customer the paging service
ATACH COPY OF DRIVER'S LICENSE OR PICTURE LD. This is to certify that I have positively identified the above applic and that it matched the signature and nomic on this BellSouth M above and the signature and nomic on this BellSouth M above and the signature and nomic on the BellSouth M above and the signature and the signature of the signature of the signature and the signature of the signature of the signature of the signature of the signature of the signature of the signature of the signature Determined of the signature of the signature of the signature of the signature of the signature of the signature Determined of the signature of	antisname and signature hobitity Cellular Agreement dives Signatury	Pager Number PIN Service BellSouth Paging Service may Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE Excluding additional airtime SERIAL MSN ESN MSN	be discontinued at any time with no with BellSouth Cellular Service. In entified by the mobile number above tinued. charges and taxes/	s pendity, BellSouth he eveni the customer the paging service s NET UNIT PRICE
ATACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applia and that it matched the ignoritie and nomic on this BellSouth M that it matched the ignoritie and nomic on this BellSouth M that it matched the ignoritie and nomic on this BellSouth M that it matched the ignoritie and the instantian of the instantian of the ignorities of the instantian of the instantian of the ignorities of the instantian Mame of Comparing of the instantian of the instantian Sales Bepresents Date I that the instantian of the instantian of the instantian Date I that the instantian of the instantian of the instantian I that I that the instantian of the instantian of the instantian I that I that the instantian of the instantian of the instantian I that I that the instantian of the instantian of the instantian is the instantian of the instantian of the instantian of the instantian is the instantian of the instantian of the instantian of the instantian is the instantian of the instantian of the instantian of the instantian is the instantian of the instantian	antisname and signature lobility Cellular Agreement autores Signature 7000000000000000000000000000000000000	Pager Number PIN Service BellSouth Paging Service may Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE (Excluding additional airtime SERIAL MSN ESN MSN ISN MSN	be discontinued at any time with no by with BellSouth Cellular Service. In t entified by the mobile number above tinued. charges and taxes)	S pendity, BellSouth the event the customer the paging service S NET UNIT PRICE S S
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applia and that it matched the signature and nome on this BellSouth M that it matched the signature and nome on this BellSouth M that it matched the signature and nome of the signature of a start 1 start start of the signature of the signature of the signature of the signature of the signature of the signature of the signature of the signature of the signature of the signature of the signature of the signature of the signature of the signature of the signature of the signature	contine and signature lobility Cellular Agreement.	Projer Number Pili Service BellSouth Paging Service may Paging Service is available or concels the cellular service is shall be automatically discon- TOTAL MONTHLY SERVICE PErcluding additional airtime SERIAL MSN ESN MSN ESN MSN ESN MSN ESN MSN	be discontinued at any time with no by with BellSouth Celhular Service. In I entified by the mobile number above tinued. Charges and taxes!	s pendity. BellSouth the event the customer the paging service the paging service s NET UNIT PRICE
ATACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applic and that it matched the signature and nomic on this BellSouth M to a set of the signature and nomic on this BellSouth M to a set of the signature and nomic on the sells of the duration and the signature and nomic on the sells of the duration and the signature and the signature of the duration and the signature and the signature of the duration of the signature of the signature of the signature man of Company for any first of the signature of the signature Date in the signature of the signature of the signature in the signature of the signature of the signature of the intervention of the signature of the signature of the signature of the signature of the signature of the signature signature of the signatu	mit name and signature iobility Cellular Agreement funds a signature funds signature bissessessessessessessessessessessessesse	Pager Number PIN Service BellSouth Paging Service may Paging Service is available or cancels the cellular service is shall be automatically discon TOTAL MONTHLY SERVICE (Excluding additional airtime EXCLUDING additional airtime SERIAL MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN	be discontinued at any time with no hy with BellSouth Cellular Service. In entified by the mobile number above tinued. charges and taxes)	S pendity, BellSouth the event the customer the paging service S NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applic and that it matched the ignoritire and nomic on this BellSouth M that it matched the ignoritire and nomic on this BellSouth M that it matched the ignoritire and nomic on this BellSouth M that it matched the ignoritire and information of the information of the information of the ignoritire and the information of the information of the ignorities of the information of the information of the information of the information Date information of the information of the information information	antis name and signature lobility Cellular Agreement dives Signature 7, C1-4 DESCRIPTION	Projer Number PIN Service BellSouth Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE [Excluding additional airtime ESN MSN ESN	be discontinued at any time with no by with BellSouth Cellular Service. In 1 entified by the mobile number above tinued. charges and taxes)	S pendity, BellSouth the event the customer the paging service S NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applia and that it matched the signature and nomic on this BellSouth M is a set of the signature and nomic on this BellSouth M is a set of the signature and nomic on this BellSouth M is a set of the signature and set of the set of the set of the set of the signature and set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set o	contigrame and signature lobility Cellular Agreement. stores Signature 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	Projer Number Plan Service SellSouth Paging Service may Paging Service is available or concels the cellular service is shall be automatically discon TOTAL MONTHLY SERVICE Excluding additional airtime Excluding additional airtime SERIAL MSN ESN MSN MSN ESN MSN MSN MSN ESN MSN MSN MSN MSN ESN MSN MSN MSN MSN MSN MSN MSN MSN MSN M	be discontinued at any time with no by with BellSouth Celhukr Service. In I entified by the mobile number above tinued. charges and taxes! NUMBERS	S pendity, BellSouth he event the customer the paging service S NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
ATACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applic and that it matched the signature and nomic on this BellSouth M to be a set of the signature and nomic on this BellSouth M to be a set of the signature and nomic on this BellSouth M to be a set of the signature and the signature of the set of the set of the set of the signature and the set of the set of the provide set of the set of the set of the set of the set of the provide set of the set of the set of the set of the set of the provide set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the provide set of the set of	DESCRIPTION	Projer Number PIN Service BellSouth Paging Service may Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE (Excluding additional airtime SERIAL MSN ESN ESN ESN ESN ESN ESN ESN ESN ESN E	be discontinued at any time with no by with BellSouth Cellular Service. In entified by the mobile number above tinued. NUMBERS	S pendity, BellSouth the event the customer the paging service S S S S S S S S S S S S S S S S S S S
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applic and that it matched the ignoritire and nomic on this BellSouth M that it matched the ignoritire and nomic on this BellSouth M that it matched the ignoritire and nomic on this BellSouth M that it matched the ignoritire and nomic on this BellSouth M that it matched the ignoritire and nomic on this BellSouth M that it matched the ignoritire and nomic on this BellSouth M that it matched the ignoritire and nomic on this BellSouth M that it matched the ignoritire and the interval of the matched that it was a start of the interval of the matched that it was a start of the interval of the interval back and the interval of the interval of the interval interval of the interval of the interval of the interval interval of the interval of the interval of the interval interval of the interval of the interval of the interval interval of the interval of the interval of the interval interval of the interval of the interval of the interval interval of the interval of the interval of the interval interval of the interval of the interval of the interval interval of the interval of the interval of the interval interval of the interval of the interval of the interval of the interval interval of the interval of the interval of the interval of the interval interval of the interval of the interval of the interval of the interval interval of the interval of the interval of the interval of the interval interval of the interval of the interval of the interval interval of the interval of the interval of the interval of the interval of the interval of the interval of the interval interval of the interv	DESCRIPTION	Pager Number PlN BellSouth Paging Service may Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE [Excluding additional airtime [Excluding additional airtime SERIAL MSN ESN MSN MSN ESN MSN MSN ESN MSN MSN MSN ESN MSN MSN MSN MSN MSN MSN MSN MSN MSN M	be discontinued at any time with no by with BellSouth Cellular Service. In 1 entified by the mobile number above tinued. NUMBERS NUMBERS	S pendity, BellSouth be even the customer the paging service S S S S S S S S S S S S S S S S S S S
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applic and that it matched the signature and nomic on this BellSouth M that it matched the signature and nomic on this BellSouth M that it matched the signature and nomic on this BellSouth M that it matched the signature and the second statement of the second statement of the second statement of the second term of the second statement of the second statement of the second statement of the second statement of the second term of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the sec	DESCRIPTION DESCRI	Proger Number Play Service BellSouth Paging Service may Paging Service is available or concels the cellular service is shall be automatically discon TOTAL MONTHLY SERVICE (Excluding additional airtime (Excluding additional airtime (SEN) (MSN) (ESN) (MSN) (MSN) (ESN) (MS	be discontinued at any time with no by with BellSouth Celhukr Service. In I entified by the mobile number above charges and taxes) NUMBERS	S pendity, BellSouth he event the customer the paging service S S NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
ATTACH COPY OF DRIVEY'S LICENSE OR PICTURE LD. This is to certify that I have positively identified the above applic and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and that it is a start Mame of Company / of kmt / according to the interval port / I // // // // // // // // // // // //	contry name and signature lobility Celhular Agreement. drives Signature <u>1</u> ///// DESCRIPTION DESCRIPTION DESCRIPTION Cent # Security Cod Security Co	Projer Number PIN BellSouth Paging Service may Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE (Excluding additional airtime Excluding additional airtime SERIAL MSN ESN ESN MSN ESN ESN MSN ESN ESN ESN ESN ESN ESN ESN ESN ESN E	be discontinued at any time with no by with BellSouth Cellular Service. In I entified by the mobile number above tinued. NUMBERS	S pendity, BellSouth the event the customer the paging service S S S S S S S S S S S S S S S S S S S
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applic and that it matched the ignoritire and nomic in this BellSouth M and that it matched the ignoritire and nomic in this BellSouth M and that it matched the ignoritire and nomic in this BellSouth M and that it matched the ignoritire and nomic in this BellSouth M and that it matched the ignoritire and nomic in this BellSouth M and that it matched the ignoritire and nomic in this BellSouth M and that it matched the ignoritire and nomic in this BellSouth M and that it matched the ignoritire and the interval of the interval and that it matched the ignoritire and the interval Soles Bepresent and that it matched the ignoritire and the interval Soles Bepresent and that it matched the ignoritire and the interval Soles Bepresent and the issue of the interval of the interval soles and the interval and the issue of the interval of the interval of the interval and the issue of the interval of the interval of the interval and the issue of the interval of the interval of the interval and the issue of the interval of the interval of the interval and the issue of the interval of the interval of the interval of the interval and the issue of the interval of the interval of the interval and the issue of the interval of the interval of the interval of the interval and the issue of the interval of the interval of the interval and the interval of the interval of the interval of the interval of the interval and the interval of the interval of the interval of the interval of the interval and the interval of the interval of the interval of the interval and the interval of the interval of the interval of the interval and the interval of the interval of the interval of the interval and the interval of the interval of the interval of the interval and the interval of the interval of the int	Director's Approval) Manual Property of Approval) Director's Approval) Manual Provide Statistical Director's Approval) Manual Provide Statist	Projer Number Plin BellSouth Paging Service may Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE [Excluding additional airtime [Excluding additional airtime SERVICE] [Excluding additional airtime [Excluding add	be discontinued at any time with no by with BellSouth Cellular Service. In entified by the mobile number above tinued. charges and taxes) NUMBERS	S pendity, BellSouth pendity, BellSouth the event the customer the paging service S S S S S S S S S S S S S S S S S S S
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applic and that it matched the signature and nomic on this BellSouth M and a start of the signature and nomic on this BellSouth M and a start of the signature and nomic on this BellSouth M and a start of the signature and nomic on this BellSouth M and a start of the signature and nomic on this BellSouth M and a start of the signature and nomic on this BellSouth M and a start of the signature and the signature of the signature Date The start of the signature of the signature of the signature and the signature of the signature of the signature of the signature And the signature of the signature of the signature And the signature of the signature of the signature of the signature And the signature of the signat	DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION ESCRIPTION ES	Proger Number PIN Service BellSouth Paging Service may Paging Service is available or concels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE [Excluding additional airtime [Excluding additionai airtime [Excluding addit	be discontinued at any time with no by with BellSouth Celhukr Service. In I entified by the mobile number above tinued. charges and taxes) NUMBERS NUMBERS k Code & k Code &	S Pendity, BellSouth he even the customer the paging service S NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
ATTACH COPY OF DRIVEY'S LICENSE OR PICTURE LD. This is to certify that I have positively identified the above applic and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and nomic on this BellSouth M and that it matched the ignature and the intervention Authorization and the ignature of the intervention and that it matched the ignature and the intervention and that it matched the ignature of the ignature of the ignature and that it matched the ignature of the ignature of the ignature and that it matched the ignature of the ignature of the ignature and that is a state of the ignature of the ignature and that is a state of the ignature of the ignature and that is a state of the ignature of the ignature and that is a state of the ignature of the ignature and that is a state of the ignature of the ignature and that is a state of the ignature of the ignature and that is a state of the ignature of the ignature of the ignature and that is a state of the ignature of the ignature of the ignature and that is a state of the ignature of the ignature of the i	DESCRIPTION DESCRI	Progen Number Physical Service Paylow Proging Service is available or concels the cellular service is shall be automatically discor- ToTAL MONTHLY SERVICE (Excluding additional airtime (Excluding additime (Excluding additional airtime (Excluding	be discontinued at any time with no by with BellSouth Cellular Service. In I entified by the mobile number above tinued. NUMBERS NUMBERS	S pencity, BellSouth the event the customer the poging service S S S S S S S S S S S S S
ATACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applic and that it matched the ignoritire and nomic in this BellSouth M Submittee the ignoritire and nomic in this BellSouth M Mare of Comparing for large states that it is a state of the intervention Mare of Comparing for large states that it is a state of the intervention Mare of Comparing for large states that it is a state of the intervention Mare of Comparing for large states that it is a state of the intervention Mare of Comparing for large states and the intervention is a state of the intervention Mare of Comparing for large states and the intervention is a state of the intervention Mare of Comparing for large states and the intervention is a state of the intervention Mare of Comparing for large states and the intervention is a state of the intervention Mare of Comparing for large states and the intervention is a state of the intervention Mare of Comparing for large states and the intervention is a state of the intervention Mare of the intervention is a state of the intervention is a state of the intervention Mare of the intervention is a state of the intervention is a state of the intervention Mare of the intervention is a state of the intervention is a state Mare of the intervention is a state of the intervention is a state Mare of the intervention is a state of the intervention is a state Mare of the intervention is a state of the intervention is a state Mare of the intervention is a state of the intervention is a state Mare of the intervention is a state of the interventis is a state of	Director's Approval Director's Approval Director'	Progen Number PIN BellSouth Paging Service may Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE [Excluding additional airtime [Excluding additional airtime SERVICE] [Excluding additional airtime [Excluding addi	be discontinued at any time with no by with BellSouth Cellular Service. In 1 entified by the mobile number above tinued. charges and toxes) NUMBERS NUMBERS k Code k Code	S Pendity, BellSouth Pendity, BellSouth Pendity, BellSouth Revent the event the customer the paging service S S S S S S S S S S S S S S S S S S S
ATACH COPY OF DRIVEY'S LICENSE OR PICTURE LD. This is to certify that I have positively identified the above applic and that it matched the ignoritire and nomic on this BellSouth M and a start of the ignoritire and nomic on this BellSouth M and a start of the ignoritire and nomic on this BellSouth M and a start of the ignoritire and nomic on this BellSouth M and a start of the ignoritire and nomic on this BellSouth M and a start of the ignoritire and nomic on this BellSouth M and a start of the ignoritire and nomic on this BellSouth M and a start of the ignoritire and nomic on this BellSouth M and a start of the ignoritire and nomic on the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities and the ignorities a	DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION SCHEDULEI Monthly Payments of st Card # Security Cod Restant Directors Approvall SCHEDULEI SCH	Pager Number Physics of the service of the shall be automatically discontrational service of the shall be automatically discontrational airtime of the service of the serv	be discontinued at any time with no by with BellSouth Cellular Service. In 1 entified by the mobile number above tinued. charges and taxes) NUMBERS NUMBERS k Code k Code	S Pendity, BellSouth Pendity, BellSouth Revent the event the customer the paging service S Pendity, BellSouth NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
ATACH COPY OF DRIVEY'S LICENSE OR PICTURE LD. This is to certify that I have positively identified the above applic and that it matched the signature and nomic in this sellsouth M and that it matched the signature and nomic in this sellsouth M and that it matched the signature and nomic in this sellsouth M and that it matched the signature and nomic in this sellsouth M and that it matched the signature and nomic in this sellsouth M and that it matched the signature and nomic in this sellsouth M and that it matched the signature and nomic in this sellsouth M and that it matched the signature and that it is sellsouth M and that it matched the signature and that it is sellsouth M and that it matched the signature and that it is sellsouth M and that it matched the signature and that it is sellsouth M and that it matched the signature and that it is sellsouth M and that it matched the signature and that it is sellsouth M and that it matched the signature and that it is sellsouth M and that it matched the signature and that it is sellsouth M and that it matched the signature and that it is sellsouth M and that it matched the signature and that it is sellsouth M and that it matched the signature and that it is sellsouth M and that it matched the signature and that it is sellsouth M and that it is sell to that that sellsouth M and that it is sellsouth M	DESCRIPTION DESCRI	Proger Number PIN Service SeliSouth Paging Service may Paging Service is available or concels the cellular service is shall be automatically discor TOTAL MONTHLY SERVICE Excluding additional airtime SERIAL MSN ESN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN ESN MSN ESN MSN ESN MSN ESN MSN ESN ESN ESN MSN ESN ESN ESN ESN ESN ESN ESN ESN ESN E	be discontinued at any time with no by with BellSouth Celhukr Service. In I entified by the mobile number above tinued. Charges and taxes) NUMBERS NU	S pencity, BellSouth the event the customer the poging service S S S S S S S S S S S S S
ATACH COPY OF DRIVEYS LICENSE OR PICTURE LD. This is to certify that I have positively identified the above applic and that it matched the ignature and nomic on this Bellsouth M and that it matched the ignature and nomic on this Bellsouth M and that it matched the ignature and nomic on this Bellsouth M and that it matched the ignature and nomic on this Bellsouth M and that it matched the ignature and nomic on this Bellsouth M and that it matched the ignature and nomic on this Bellsouth M and that it matched the ignature and nomic on this Bellsouth M and that it matched the ignature and nomic on this Bellsouth M and that it matched the ignature and that it matched the ignature of the ignation of the i	Director's Approval) Manufield for the number of days in series (Director's Approval) (Director's Approval) Manufield for the number of days in series (Director's Approval) (Director's Approval) (Director	Pager Number Pill BellSouth Paging Service may Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE [Excluding additional airtime [Excluding additional airtime SERVICE] [Excluding additional airtime [Excluding addi	be discontinued at any time with no hywith BellSouth Cellular Service. In 1 entified by the mobile number above tinued. charges and taxes) NUMBERS NUMBERS k Code k Code K Code K Code K Code K Code K Code K Code K Code K Code Code Code Code Code Code Code Code Code Code	S Pendity, BellSouth S S S S S S S S S S S S S S S S S S S
ATACH COPY OF DRIVEY'S LICENSE OR PICTURE LD. This is to certify that I have positively identified the above applic and that it matched the signature and nomic on this SellSouth M and that it matched the signature and nomic on this SellSouth M and that it matched the signature and nomic on this SellSouth M and that it matched the signature and nomic on this SellSouth M and that it matched the signature and nomic on this SellSouth M and that it matched the signature and nomic on this SellSouth M and that it matched the signature and nomic on this SellSouth M and that it matched the signature and that it matched the and that it matched the signature and that it matched the and that it matched the signature and that it matched the and that it matched the signature and that it matched the and the signature and the signature and the signature and the signature and the signature and the signature and the signature and the signature and the signature and the signature and the signature and the signature and the signature and the signature and the signature and the sison the signature and	DESCRIPTION DESCR	Proger Number Phi Service BellSouth Paging Service may Paging Service is available or cancels the cellular service id shall be automatically discon TOTAL MONTHLY SERVICE [Excluding additional airtime [Excluding additional airtime [Excludi	be discontinued at any time with no by with BellSouth Cellular Service. In 1 entified by the mobile number above inued. charges and taxes) NUMBERS NUMBERS k Code k Co	S Pendity, BellSouth Pendity, BellSouth Pendity, BellSouth Revent the event the customer the paging service S Pendity, BellSouth NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
ATACH COPY OF DRIVEY'S LICENSE OF PICTURE LD. This is to certify that I have positively identified the above application of the importance of the import of the import of the importance of the importance of the import of	DESCRIPTION DESCRI	Proger Number PIN Service SeliSouth Poging Service may Proging Service is available or concels the cellular service is shall be automatically discon TOTAL MONTHLY SERVICE Excluding additional airtime SERIAL MSN ESN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN ESN MSN ESN MSN ESN MSN ESN ESN ESN MSN ESN ESN ESN MSN ESN ESN ESN ESN ESN ESN ESN	be discontinued at any time with no by with BellSouth Celhukr Service. In 1 entified by the mobile number above tinued. charges and taxes) NUMBERS NUM	S Pendity, BellSouth the event the customer the positive sustomer the positive sustomer S Pendity, BellSouth the event the customer S S S S S S S S S S S S S S S S S S S

ł

·· ;

121	9.324 2	140 1514UH	0.80	Sales Anio and Branc	/Install h ⁻¹⁹⁰⁰³⁻¹⁰ 230	Inventory Branch	OATE ENWILLS	MOB	17 929-8
		ES ORDER	HE BOND THEMPINE TO BUS ORDERS	NAD 2119	INDER CONTORIGU	NAL ORDER NO STATES		200 EVICA C DITULA: IORIG	N LIAN PORTA
No.		SOLD		TOMER NUMBER	-Andreando ao 14 1414 - Cadavido Ori 1414 - Cadavido Ori	A MADSHIP TO	D- and the series	CUSTOMER NI 2U.) CI 2U.	IMBER SIN SUCO
, ,	USTOME	ADIDA HT OT	CAPIT CONFACTOR	REES TO PAY SUCH	STATED, JUYER VC	CUSTOMER NAME HIGT THEN	1.960 CR 1970	O MANTARITIZA MIL 21 TI THIS A	03 01 00A 200ASD 9240 394 394 394 39
		1514 ASSER	ער גענערדי איז געער איז געער איז געער איז געער איז געער איז געער געער איז געער איז געער איז געער איז געער איז ג	WHLEMOD DUA 1		ATTENTION 11 Latitude a rest of the second	(4.)9 C (5)	S ANN UMIN. BU BERS ANG AGI	HIGH OF WARRAITH
1	DDRESS	NHETHER PURC DITABILITY, D	e confraent or service (n Meved Warranties of Su	STREET AND A WITH TH	१५ छन् दूबबन २० २३१ अञ्च १४४२ द्वार	ADDRESS of the data for the term	- 198 (C. 1983) - C. A. 80 (C.	nakan Mana Contra	ectextations and set by customed
	1179, STAT 11778() 94	E ZIP (CONTROL) NASIH (STUBL)	RUMARRAW ISEBUILA RUMARRAW ISEBUILA AM DHOULIME DEPREDA	ILLI'S DE CHURCH BUMANI MANUEL THE DEFECTE IN THE	Contraction (Contraction) Contraction (Contraction)	CITY STATE, ZIP	i de la composición En 1999 - Anno Anno Anno Anno Anno Anno Anno An	1940 - 04A 714(ANARUOICI CIER
ľ	ORK PH	onesius stay)somusish os	TEREAU ON SYAH JIAHOM LONOAR SERVICE REONIG	EPHONE TAHL	Flandischark - Erblin Rom <mark>i no tutobi</mark> ng f	WORK PHONE	n orași no 1 Manistri	HOME PHONE	141 - 220,404 - 24 с 2.2503.2144 203 (2
- - -	TAX	A 10 201 3	MER DIRECTLY OF MERCEN	WINY YAUURI JARO	TAX	All tax exempt sales to Customer Order.	require exer	nption cert	ficate to be att
)	PECIAL	PROGRAM: 38 OD MOUT SIN	THE FULL EXTENT SAME MAY	S REGULTALE, TO	USED IT COMPLET	ала население на селото ОСУРЕЗ ОТ 3244 года с даз	n i e liker. Uti MaraNew	areas - 20 Tash as PUTRANAS	nilosi vala di dela Si di 230625312 y
ľ		• · • • • · · · · · · · · · · · · · · ·	allandia attaligi alli a a ai	anter a construction de la construcción de la construcción de la construcción de la construcción de la constru La construcción de la construcción d	and a second and a second a s S	and a state of the	U VYRAV HDESV	8 8116-91 94-001	Y ALSO HAVE DIHER
<u>C</u> EL		CUINE		THICHLISCE	MINING SIL	MATA SERIAUNUMBER	ALMAN SMALT	NETRUNITAT	UTCAS EXILING
S	IFAC I	LOF THE MAT	orbany and arising out to person of the second	CIS PROVIDED BY C	COURMENTS OF SERVE	MSN 14103 HITE HITE HE	LI TAN BUNCE	iicii ku thaya Thilil : Julije	5 PROVIDED BY CC
P	10	Vi	<u>y</u> i p		UU 211YOJAM	SNEEDRET MARMON	Contraction - C	2593830J3	HO TY LANG ON P
F	2 J	ve parinbar i	es and use laxes, other taxes	lee ,noitatimil too ta	e by Customer. Empany, includieg is			ગીપુજર, વસ્તી પૂઝ પ્રાથ્વે કરી કરી છે.	lango szivnadlo cza sourci sindi herraugu
1	* 41 000	nonth or thou	the unpaid butance for each i	esemitted by law if.	្លាក់ ស្ថិត ទាំង ស លោក ស្ថិត ទាំង ស	MŚN 402 Processo 2 190	25 25 30 000 - 20	<u>in versi an en ses</u> Ne krien alle ad 11 billione albera	nents receivitations such balance shall
, <u>,</u>	1.193	use, tot, and a. The server	I noretheless he liable for all t	nson Custonner stigt 	op pub the sectors of co		k to report	15.97 G409 21.	norseD fride neve a <u>norseD fride neve</u>
: 7): 10i yi	rdé hy Compo	on su von wol yn bawellri in	u no munixon ÷	r numeni, o charge G et limited pulma	MSN		י אנו 1900. קידע אנגע אנו איז רע געאין לאור איז	kadte due to chy su 1. Doymert for Servi 1. detromert entropy
ŀ	1					MSN			sau go ar melito er Stituen fora
1	a trie	oradit o lus vo	stoners credit card constants	sa, ci cistrges ba û Romandes ba û	e potration	ESNID HUEA - Ideutinan		912-012-01-0 	retuit for any con-
÷	jes (c	smob terteer	ns of this agreement or th n	nel trip chemonation	lacialdae en jo um	MSN ESN-SHARE		10,00 8,00 8,00 10 500 50,00 60 1	ures) haddel Cher 199000 yd Deniorf Bel deaedd deilair
	1. 10 4		ut be may provided. sidelt or breach by Customer	e reason of such the	e chorect con La calenza por conce	MSN and a second	in une une en ins	ing the second s	het von Poli- amo
	texp	10 2161 - 14 18 9.04 10 141109	erouri by Customer and Sin a	n such Dreach of di section of environments of section of environments	ny Destroyer very w Service second was Net Statement second	ESNERIOS - Martin		this ragget used collecting such a	of Autocuro 2 Agreent Agreen of Council Screent
þ	🗆 Påi	f with order	Po Check #10 syicwt 20 s	ement sholl operat	ina Adt iaone yllach Svod y <mark>om</mark> ynoaniol	ដៃលំខាត់ ម <mark>ុងទទាវ</mark> ិច ត្នាត់ទំណង សមត្ថភាព ស្ត្រីណាមជាច អ ត្ថិភាព - សេ ស្ត្រសម	o siph yao a ch Canaan: C	SUBICIAE	e hoalen no statu Yild on cost of any
	iretera	sice Custom	ni iteritatin B.O.Q. 06. 190, 190	internationalist Magnetino fottucios	torn due to ony for due to ony	mg af eise <mark>al</mark> na mír lá yeugive s rathmigedal v atskinské nasktiv	wi kileo tun f Mi kileo tun f	Success	visional a disa urba. Mgumetoli namuszu
12		dit)Gard of	ees only	ed fla <u>nnen vileinno</u>	where of cExp.	<u>alexes a</u> Autha <u>rrai di sotre</u>	ny ex ernation tet	× %	it of to be a stand the
1	Custon	ect on Deliv	greeing to this agrivement on very	vice, the individual a	road user of the Ser	o tricober other than its lady.	no contre e Nu terditente		
d N	⊐ 3°	nally and nt ai	notic noone assignments along	ervice hereby perso	onotione slip of the C assumy for the same	ar antity: the signatory on the s sympositic curber only to Co	nio re gitte Se niotoco er eth		twhen oue of onglin
ľ	Bill	with Service	e	IDC 10 9101W 111510	IANAGER'S APPROVAL	ning Arm Aubeuren Howarieh N	iyaleo N Bodi. Ni	PAMENCE'	gnature ship waives carporation, partner
3	n.58áli	nce s <u>ed as</u>	willion consent. The condrive	With <u>svindmad i</u> M	ionthly poyment	s of \$ ipices and list and in standard	ner's rights in		
ť	ATE & TI	AE OF SCHEDUI	LED INSTALLATION (02 10 10 10	Incritory and MAKE	MODEL & COLOR OF	WTOMOBILE OF		PLATE NO	Inerrise UNLOCK.CC
5	PECIAL II	ISTRUCTIONS -	WASEDONY THE PARTY	And PMO And	curio engli engli engli e curio engli engli engli e curio engli engli eggi eggi	ner and a subsection of the second of the second seco	a beziolite Lou	d by, construct:	non de la contra d
	<u>اللہ</u> in:nm97	educations	<u>กล่าง (กระบบ แก่สวยไม้กล่างจะ</u> เป็นสร้างมีกล่างเกล้าด วัดอยู่ปีเป็น	an tan seri shoo c	<u>ra, – Ainte Interior.</u> Van nahina bilovni he	a casilian to such subhilting s cases to ad ballding an stration	at i en a general. Internet istreuten	on suit to have a	Record di divica di
╞		ni adl tumore	non villigent fon Décision official	bho tememori ver	י המירה שימין שלו שוני שייייי	n a transform where a same	ini satatan i	en ster adt 1819	A POST CONTRACTOR
ŀ			nego y prosente da su su construir da su			n an an an Angel Marian (a' Maria Bridge) an Anternet (an Anno Anno Anternet) an Anno Bridge (a' Anno Anno Anno Anno Anno Anno Anno Ann	1224-00-00-00-00-00-00-00-00-00-00-00-00-00		n nann eine einer der einer der seht der Seinen ander einer einer St. 54
		D THE CUSTO	MER: By signing below, you	acknowledge that	you have received	a copy of this Order Form. th	nat you agree th	at the informat	ion above is correc
pi ci he	ete, an aimer a reby p	d that you h f warranties ersonally gua	nave read and understood and limitations of remedies arantees, unconditionally of	l, and agree to be s in paragraph 2 ar and at all times, th	bound by the ter d the indemnities payment when (rms and conditions on this in paragraph 3. If customer i due of all indebtedness of s	side and the re s a corporation, uch corporation	everse side inc partnership, a partnership,	luding but limited rother entity, the u or any other entit
he	reby a	thorizes Con	npany to investigate the cr	edit of Customer o	ind gives Company	permission to check Custor	ner's credit and	to provide an	exchange credit

1

i i

72 Credit Reference Number Mobile # (CM) 🗅 ESN Change 🗖 No Install 📮 310 7 Mobile Number 3) Mobile # (57 E.S.N. 60 1022392 Date Mobile # (\$777.) 316 ·)< 7 - 4) E.S.N 1.1.1.711 CONSUMER TO BELLSOUTH Mobility
 South Mobility
 S 1204 Yes . No Markel Agent Code Sales Rep. Existing customer? SERVICE PLAN SELECTED M. 1/3/14 Add 10K1)S eastean ann ann an e-r-nal srinne bhair bhrain Local airtime minutes included Print the name and address of person responsible for charges made to this account: CUSTOM CALLING FEATURES 14 ÷. 10 KN 1945 Call Waiting Call Forwarding Con Star 1. Lost North 0 Responsible Party First Name ō No Answer Tro D Three Party Conferencing Billing Addr Address/Post Office Box () Any Two Features Any Three Features 0 City ic no State State Zip + Four OTHER O . Mobile Memo S. ast Work Phone Home Phone : and a star and a star and the Description Pager #_____ One Number Service 19 (2014) (19 (2014) 14.95% والمعروفة وبالمردية وا NA MERING MENALOW CORP. ANNUAL INCOME UNDER \$35,000 \$35,000 \$57,000 \$75,000 \$75,000 \$90,000 Ó 0000000 Social Security Number 10 12/07/02 10 12 10 -84 10 -94 10 \$49,999 \$74,999 \$89,999 \$105,999 Description Nights & Weekends Mobile-To-Mobile 0 Date of Birth Emergency Road Service* Detailed Billing 0 \$114,999 Driver's License Number State Toll Restricted 1.532 2.59 Incoming Calls Only Outgoing Calls Only ٠, 0 2 COMMERCIAL/CORPORATE - A tot plant of the and the and the second COMMERCIAL Cost of the Device and Device and Device of the 13,7 D Miscellaneous S \$ ō Miscellaneous . LONG DISTANCE ---- 1 a 12.7545 Company Name and state a set of the sector of the Tax Exempt Number ÷. n BellSouth Long Distance ÷ O Other Supervisor's Phone No. Yrs. In Supervisor's Name no pro oBusiness 1995 Bornay Mary " (general grade) a CELLULAR PHONE INSURANCE ÷ ACRESS OF THE REAL (Not available in all locations) 1. 160 . 10001 (initial one) Accept Decline Type of business: CO Corporation ... O Sole Proprietorship or Partnership ... O Other Corporation BENEW CALLER Premium/Month . Deductible n che al l'arean d'Angle i d'arte fid al l'asseur l'arte d'arte and d'a d'arte d' La 20 d'hai l'arte indit che parla de la carde de la significatione dans travel de RAAL VA ORDAVIA. ACTIVATIV AXCONT D Cellular Phone \$35 ... SURE T.IV \$ 2.95 Bank Name Account Number 'll you subscribe to cellular phone insurance and/or emergency road servic vou arknowledge that you have received and read the brochure for some and the terms and conditions under which same is offered outlined therein. and the second ame and understand Trade Reference Contact Phone Number Account Number I understand that in the event of a loss, theft or damage, replacement of my cellular Junderstand that in the event of a loss, area to starting the start of the starting start of the Trade Reference Bare & Contact. 32 + 178 51 Phone Number Account Number 1 2142 4 MI 19465 Phone Number Trade Reference Account Number PAGING :e., \$ relienzeriger etc.g. ATTACH COPY OF DRIVER'S LICENSE OR PICTURE I...D. Pager Number ٠ PIN This is to certify that I have positively identified the above applicant's name and signature Service and that it matched the signature and name on this BellSouth Mobility Cellular Agreement. BellSouth Paging Service may be discontinued at any time with no pendly, BellSouth Paging Service is available only with BellSouth Cellular Service. In the event the custom concels the cellular service identified by the mobile number above the paging service shall be automatically discontinued. -1n and the second s Ð a nietro Name of Company e's Sianature SL 5700 TOTAL MONTHLY SERVICE +LV Date (Excluding additional airtime charges and taxes) Drint Now LN TY QTY: ITEM NUMBER (Required) DESCRIPTION SERIAL NUMBERS NET ONIT PRICE MSN 6-n-5170 ونغط mar whole the and the second **)**: , : ; ESN and a function of the second states and the second states and the second states and the second states and the s MSH 5 ESN nL MSN ς 1 visional encoder a second contract second on the second second second second second second second second second to bate two 1. 7 . O . contrain ESN SIZ P MSN <15:253 . ไรว่ายหลังข No fem propriate بالمؤملة لمائم ESN MSN na:Didthe ي مر re stara 1. S. 2. 1007 TAN MERSON FOR T counter tomo ESN inter la construcción y Non-Tromble Subtotril Sales/Install Branch , C Paid with Order to Check/Cash Receipt # ... Sound Sugara □ Invoice Customer Net 30 P.O. # Inventory Branch mble Subtotni Credit Card O'MC . O'Visa O AMEX O Other Card # Security Code Expiration Authorization Unlock Code 17.24 to read ΥĽ Bill with Service States to States and States States States Director's Approval Order Total SCHEDULED INSTALLATION 42.0 . . 1 Balance S we have state to with ... with the most Monthly Payments of - Down Poyment D AM Make, Model & Color of Automobile: \$ O Other: Maintener D PM Customer is purchasing equipment primarily for business purposes. ່ພະລະກ Informe Due analysis of License Plate Number Date Time er die The monthly service charge and any minutes included will be provided for the number of dory in service during the first billing period.
 The first months bill show a monthly service charge for the following front has beequently you will be billed one month in advance.
 All Special Pricing Plans are subject to eligibility requirements and approval. heligibility for Special Pricing does not nullify this agreement.
 All Special Pricing Plans are subject to eligibility requirements and approval. heligibility for Special Pricing does not nullify this agreement.
 All Special Pricing Plans are subject to eligibility requirements and approval. heligibility for Special Pricing does not nullify this agreement.
 All Special Pricing Plans are subject to eligibility and the States?
 Long distance is billed if addition to a Water?
 A connection charge and Copy month.
 States are subject to charge and Copy month will apply during any month in which a cell originated from the cellular phonels is terminated through the kandline network (connection charge is subject to charge and Copy month) will apply during any month in which a cell originated from the cellular phonels is terminated through the kandline network (connection charge is subject to charge and Copy month) will apply during any month in which a cell originated from the cellular phonels is terminated through the kandline network (connection charge is subject to charge and Copy and the States?
 The appropriate Equidated damage (replicable) and to provide and exchange credit information regarding Customer with credit bureaus
 Customer certifies that the pricing plan chosen has been explained and that the Customer understable the components of the pricing plan, including but not limited to the activation fee, monthly access that agrees that and the damage (replicable) and agrees to same.
 Customer certifies that the pricing plan chosen has been explained and that the Customer understable the components of the pricing plan including b 97 (K.) (M.) 28 8 2 6 7 7 1 nt By signing below, the understands, and accerds the attoched Terms and Conditions of Service A prement form (1852-547) <u>/, c</u> 194 GOLD CUSTOMER 4.3 24

ESN Change D No Install . D C ion 2) Mobile # ()	
A CO O O O O O O O O O O O O O O O O O O	E.S.N
	E.S.N
CONSUMERS Complete Bons 1 & G STITULE COMMERCIAL/CORPORATE - Complete Bons 1 2 & 3	
<u>ACC/10</u> Market Agent Code Sales Ref: Loging customer?	
	- SERVICE PLAN SELECTED HALPING TOKOS 1.5
Print the name and address of person responsible for charges made to this account:	Locol airtime minutes included per month: Custored catling statuses
Personable Party First Neman & WAR W/ & WAR DO / Inter Manual 201	Coll Waiting S
Billing Address/Tost Office Box	D No Answer Transfer
City	C Any Two Fectures
Home Phone 1, STONAST COLUMN CASES OF MALE CASES CASES OF WORK Phone 1, 2003 ALL COLUMN CASES OF THE	OTHER
RUN - COMPRESS AND	Arger # A
A Social Security Number 1 3 Hyperbase 42 (1997) 10 Hyperbase 41 (19	Description
Dere of print - Contract in Transienty Brit Mate - Female - C - 37000 - 50000 - 50000 - 50000 - 50000 - 500000 - 500000 - 500000 - 500000 - 500000 - 500000 - 500000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 5000000 - 50000000 - 50000000 - 50000000 - 50000000 - 50000000 - 50000000 - 50000000 - 50000000 - 50000000 - 50000000 - 50000000 - 50000000 - 50000000 - 50000000 - 50000000 - 500000000	Mobule-10-Mobile S Emergency Road Service S S
a C \$115,000 & ABOVE	C Toll Restricted
United State Commerce and the state of the s	C Outgoing Calls Only S S S S S S S S S S S S S S S S S S S
Rente 1972 - 1972 - Stand Warner Sinto IN TWI She cardinate Collect Number	LONG DISTANCE
Supervisor's Name	D Other
23 56	
Tis this branch of subsidiary of the main officer. Yes The Manual State	(Not available in all locations) (initial one) Accept Decline
anne an anna an anna an anna an anna an anna an an	Premium/Month Deductible 2 Cellular Phone \$295
ecBank Name (alegorist), er a Account (Office) sata (gifthone Number); er per la Account Number - est (gi 1-20 - est alegorist (contrast from the Bulk (Statement Strict) and the Half (contrast from the Strict) and the	If you subscribe to cellular phone insurance and/or emergency road service, you acknowledge that you have received and read the brochure for same and understam
Trade Reference - Contact - Phone Number - Account Number - Contact - Phone Number - Phone	the terms and conditions under which same is offered outlined therein.
2/Drade Reference: 12511 (Contact), DRASTING (1517 Phone Number) Account Number	phone may be greater than the original price
Trade Releases Contact	PAGING STATES STATES TO A STATE STATES STATES STATES
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE 1.D. This is to certify that I have positively identified the above applicant's name and signature	Pager Number
and that it motiched the signature and name on this BellSouth Mobility Celfular Agreement.	BellCouth Paging Service may be discontinued at any time with no penalty. BellSouth
M Laproving of send send set of a far and set of the se	Econcels the cellular service identified by the mobile number above, the paging service is shall be outomatically discontinued.
Name of Company 1	
Date . In Sun (Land A not and the state of the W Print Name	Discluding additional airtime charges and taxes
IN TY OTY TEM NUMBER (Required)	SERIAL NUMBERS
55 1 mu Naptan 5120	MSN ESN
3 しんしん しんしょう かんしたい たんにないたい かんしょう しんしょう ひんしょう ひんしょう ひんしょう しんしょう しんしょ しんしょ	
A 19 Barren - a man discussion ità makanàn' anka ana ana ana ana ana ana ana	MSN State State S
A ALLA-ALLA - ALLA-ALLA ALLA-ALLA ALLA-ALLA ALLA ALLA - AL	MSN ESil MSN ESil Sh Sh
 A 22 A - 12 - 1 - 12 19 07 37 20 20 A - 20 A	MSN ESI SN SN ESN SN SN SN SN SN SN SN SN SN SN SN SN S
 A 22 A - 12 - 1 - 12 POT 37 CONSTRUCTS II OF PLAK STORE 57 AL 12 - 12 POT 12 POT	MSN ESH MSN ESH MSN ESH MSN ESH MSN ESH MSN ESH MSN ESH MSN ESH MSN MSN ESH MSN MSN MSN MSN MSN MSN MSN MSN MSN MSN
A construction of the second s	MSN ESi MSN ESI MSN ES
A Dia Antonio Visionana za ki drug k prismi do Antonio Visionana ki drug k prismi do Antonio Visionana za ki drug k prismi do Ant	MSN S DSI S DSN S DSN S DSN S MSN S MSN S DSN S MSN S MSN S DSN S MSN S MSN S DSN S S S S S Data S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S
Antimit of the server of th	MSN ESI MSN ES
x = 1 transfer x is on the provide provide x is x transfer x is x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x x = 0 transfer x transfer x transfer x <	MSN S DSI S MSN S ESI S IB Ronch S Sector S IB Ronch S Sector S IB Ronch S S S ID INSTALLATION S D AM Marke, Model & Color of Automobile
And and a service of the service of	MSN S DSI S MSN S ESI S MSN S DSN S MSN S DSN S MSN S MSN S DSN S State S Monopolitic
Image: Second State Sta	MSN ESI MSN ESI MSN ESI MSN ESI MSN ESI S MSN ESI ESI MSN ESI ESI ESI ESI ESI ESI ESI ESI
Image: Second	MSN S MSN S MSN S ESI S MSN S Montambe Subted S Ill Branch S Internet S Internet S Internet S Make, Model & Color of Automobile States S S Make, Model & Color of Automobile States S S Make, Model & Color of Automobile States S S Make, Model & Color of Automobile States S S Make, Model & Color of Automobile States S S Make, Model & Color of Automobile States S S S S Make, Model & Color of Automobile States S S S S S S </td
Image: Second	MSN ESI MSN ESI MSN ESI MSN ESI SSN ESN SSN ESN SSN ESN SSN ESN SSN ESN SSN ESN SSN S
Bill with Service Soles/Instal Bill with Servi	MSN S MSN S MSN S ESI S MSN S More function S More function S More function S Market Model & Color of Automobile S S S S Minited one month in advance S Minite cellular phone(s) is terminated through the kondine networf (connection charget Market Model & color of multine networf (connection charget Minite cellular phone(s) is terminated through the kondine networf (connection charget
Image: Solution of the second seco	MSN S DSI S Standard S Standard S Standard S Standard S DINSTALLATION S DAM Make, Model & Color of Automobile S PM Encode S DIme License Flate Number converter S Standard S Standard S Standard S Standard S Standard <td< td=""></td<>
Bill with Service Soles/Insta Bill with Service Soles/I	MSN S MSN S MSN S ESI S MSN S More instantion S Mibe billed one month in advance S
Bill with Service Soles/Insta Soles/Insta Soles/Insta Soles/Insta Soles/Insta	MSN S MSN S ESI S MSN S ESN S Ill Branch S tench Incense Rete Number contanullie S tencentent in
Image: Second	MSN S MSN S MSN S DSI S MSN S DSI S MSN S DSI S MSN S DSI S DSN DNM Make, Model & Color of Automobility DSN DNM

$\frac{300707778707}{1} Mobile # (300)$	5161022 ESN 21401	
ESN Change D No Install Department of the Source of Mobile # (502)	76-7873 N 761.00025	786
dud tanga b with the Mobile Numbership 3) Mobile # (and the two and the ESN states of the terms of	25 E 1992 - 1992
60 0985870		
CONSUMER - Complete Barry 1 & 3 - COMMERCIAL CORPORATE - Complete Barry 1, 2 &		renten grieden. Relige Grieder
Martin No	(a) BELLSOUTH	Mobility
Agenacode Sours Rep. Lasung customer /	SERVICE PLAN SELECTED	\$ 20 92
O CONSUMERANCE - CONTRACT AND	local disting minister included for months	and a state of a second
This die maine and others of person respirations of charges mode to dis decount:	CUSTOM CALLING FEATURES	arabian shiri aray i arabian ya'ra teary - Ali af an afaire -
Responsible Perty End Name in 1021 With MITON AND Start Nome 27 Min 2000	C. Call Waiting 53 5	MARTINE SECOND
Billing Middane Road Office Bar	D No Answer Transfer	A SAM PERSONAL STAR
wen Socn Sbaroneelly rel 73051312	D Any Two Features	AGAN DENTSU (1997) EDROXOLDA TOTELA - 13
City and personal of a sector of the manual line will be the Son USS 8100	OTHER	A SALAN BERGER
Home Phone a religion to the report wat the to destinate Work Phone - a product a spin of the	Description	SALATINA NA
	D One-Number Service	Maria, victoria († 1977) 1997 - Constantino († 1977)
Social Security Humbers 73 4114 825 10 134 (34/96) 1 10 132 5002 1 10 135,000 574,999	Description	Riada - Carlo Anglia Riada - Carlo Anglia Riada - Carlo Anglia
Date of Birth SAURE BIT D FALSAMATIN Male To Female TA C 85000 59000 5105.99	D Mobile To Mobile C Emergency Road Service	REALLING AND
Driver's License Number State	C) Detailed Billing	1997 - 1998 - 1998 - 1997 1997 -
O COMMERCIAL/CORPORATE + Mathing and the and the average a	C Incoming Calls Only	
Up to 48-hour processing time	Miscellaneous	และการจาก เ
Company News Director 2010 1010 La Tender 491 Julian Andrea 491 Julian Andrea 1910	LONG DISTANCE	BREENE BURE A FROM COT
n na compony numeraly to strong of strengts (strate in the internet number) no	BellSouth Long Distance	27732334 2773254
Supervisor's Name		ale militare can a fi
Does street address differ from billing address? Yes A 2515 Note that the second street of the second street stree	CELLULAR PHONE INSURANCE	STATES AND
Type of business and Corporation 12 O Sole Proprietorship or Partnership	(initial one) Accept Decline 47	Rabby 751 (Provid Third Third (Provid
i in finnelin izoninjegi oddinom lanizi, ko inferitiza nal st dizekon di zaniza na 14.468 di oko zaka i 20.25. 1929 - Daniza (inferniti na na 18.1921) lukodizi in sekono dizekon izazile izonalizato, ko 20.477 (inferiti	erste an 1987 in 1976 of 1997 of 1997 in 1997 Premium/Month #19 Deductible 19 91 - Alexandro Celhikar Phone (* 1994) († 1997) \$ 295-9 († 1975) (* 357-9)	eda inversión de Proposition de la companya de la c Nacional de la companya de la company
Bank Nome Long was or Account Officer / 1946 an Phone Number 2000 Account Number	If you subscribe to cellular phone insurance and/or emergency	road service, you
Trade Reference Contact Provide Barrier and Phone Number	the terms and conditions under which same is offered outlined t	herein Kanzaka
Trade References warrs a Contract, the warman and Phone Number 11-13-11 Account Number 2	1 understand that in the event of a loss, theft or damage, replace	ment of my cellular
Trade Defense de 4 424 12 Contrate Desta Contrate Desta De Contrate De	24 - 25 Electron and All and a second second second and a second	201570 N 616742 P3 57 22
and the second	PAGING	1. S
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE L.D	BOTTOP MITTOPAT	
This is to certify that I have positively identified the above applicant's name and signature	PIN	ADARES (B ANTA PARTY) - 1 - 1 BAREN - 1 BAREN - 1 - 1 MAREN - 1 AMERIKANAN
This is to certify that I have positively identified the above applicant's name and signature - : and that it matched the signature and name on this BellSouth Mobility of hubra Agreement	PIN Service BellSouth Parting Service may be discontinued at any time with	nagasi text sites (Bistoria de Martino de Sectoria de Sectorida de Sectoria de Sectoria de Sectoria de Sectoria de
This is to certify that I have positively identified the obove applicant's name and signature - ; and that it matched the signature and name on this BellSouth Mobility Schular Agreement - ; store and agreed at the signature of the second schular and second schular agreement - ; store agreed at the second schular schular agreement - ; store agreed at the second schular schular agreement - ; store agreed at the schular schular schular schular agreement - ; store agreed at the schular	PIN Service Service may be discontinued at any time with Taging Service is available only with BellSouth Cellular Service Concest the cellular service ited thicked by the mobile number and	ho penalty. BellSouth In the event the custome the the proving service
This is to certify that I have positively identified the obove applicant's name and signature -) and that it matched the signature and name on this BellSouth Mobility Schular Agreement - interesting and the second state of th	Pillsouth Paging Service may be discontinued at any time with Paging Service is available only with BellSouth Cellular Service cancels the cellular service identified by the mobile number about shall be automatically discontinued.	no penalty. BellSouth in the event the custome we, the paging service
This is to certify that I have positively identified the above applicant's name and signature - : and that it matched the signature and name on this Bellsouth Mobility of huber Agreement - is going agreed with the signature and name of the signature - : is going agreed with the signature is the signature - : huber - : Name of Company - :	Pulse Names	ho periodly. BellSouth In the event the custome we, the paging service
This is to certify that I have positively identified the above applicant's name and signature	BellSouth Paging Service may be discontinued at any time with Paging Service is available only with BellSouth Cellular Service cancels the cellular service identified by the mobile number of shall be automatically discontinued.	no penalty. BellSouth in the event the custome we the paging service server the tax service
This is to certify that I have positively identified the above applicant's name and signature	PUER NUMBERS	no penalty. BellSouth in be event the custome we the body errore south the service south as a service south as a service south as a service NET UNIT PERCE
This is to certify that I have positively identified the obove applicant's name and signature	Provent and the service of the service of the service of the service of the service is available only with BellSouth Cellular service is available only with BellSouth Cellular service is cancels the cellular service identified by the mobile number of the service is shall be automatically discontinued. Total MONTHLY SERVICE Control MONTHLY SERVICE SERIAL NUMBERS: MSN	ho penalty. BellSouth in the event the custome with the data service and the service NET UNIT PERCE
This is to certify that I have positively identified the above applicant's name and signature	Per Nameer	ho pendity. BellSouth in the event the custome with the paging service service service MELUNIT PRICE
This is to certify that I have positively identified the above applicant's name and signature		ho penalty. BellSouth in the event the customer were the paging service service and the service and the service and the service service and the service and the service and the service service and the service and th
This is to certify that I have positively identified the above applicant's name and signature		NOT SHOULD BE SOUTH IN THE SECOND SEC
This is to certify that I have positively identified the above applicant's name and signature		no penalty. BellSouth in the event the custome we, the paging service service and the service and the service and the service service and the service and the service and the service service and the service and the service and the service service and the service and the service and the service service and the service and the service and the service service and the service and the service and the service and the service service and the service and the service and the service and the service service and the service and the
This is to certify that I have positively identified the above applicant's name and signature		ho penalty. BellSouth in the event the custome with the data and the service service and the service and the service and the service service and the service and the service and the service service and the service and the service and the service and the service service and the service and the service and the service and the service service and the service and the service and the service and the service service and the service a
This is to certify that I have positively identified the above applicant's name and signature		ho pendity BellSouth in the event the custome with the Jugging service Service Service NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
This is to certify that I have positively identified the above applicant's name and signature		ho pendity BellSouth in the event the customer with the paging service SCOLONG PROCESSING NET UNIT PRICE SCOLONG PROCESSING SCOLONG PROCESSING SCO
This is to certify that I have positively identified the above applicant's name and signature		ho penalty Bellsouth in the event the custome were the particular service service the particular service service the service the service the service service the service the service the service service the service the service the service the service service the service t
This is to certify that I have positively identified the above applicant's name and signature	Orgen Rummer Service BellSouth Paging Service may be discontinued at any time with Paging Service is available only with BellSouth Cellular Service cancels the cellular service identified by the mobile number of shall be automatically discontinued. TOTAL MONTHLY SERVICE ICOTAL MONTHLY ICOTAL MONTHLY ICOTAL MONTHLY <td>ho penalty. BellSouth in the event the custome with the participant environ SCOME and the second NET UNIT PRCE SCOME Subord SCOME Subord SCOME Subord SCOME Subord Transfe Subord Too bree X</td>	ho penalty. BellSouth in the event the custome with the participant environ SCOME and the second NET UNIT PRCE SCOME Subord SCOME Subord SCOME Subord SCOME Subord Transfe Subord Too bree X
This is to certify that I have positively identified the above applicant's name and signature	Orgen National Service Service BellSouth Porging Service may be discontinued at any time with Parging Service is available only with BellSouth Cellular Service cancels the cellular service identified by the mobile number of shall be automatically discontinued. TOTAL MONTHLY SERVICE Concels the cellular service identified by the mobile number of shall be automatically discontinued. TOTAL MONTHLY SERVICE Excluding additional airtime charges and faces! MSN ESN MSN	ho penalty. BellSouth in the event the custome with the data and the service service the data and the service service the service service service the service service service the service service service the service serv
This is to certify that I have positively identified the above applicant's name and signature is and that it matched the signature and name on this BellSouth Mobility Cellular Agreement. If the second is a second is second is a second is a second is a second		ho penalty BellSouth in the event the custome with the plaging service Service the service MELUNIT PRECE S S S S S S S S S S S S S S S S S S
This is to certify that I have positively identified the above applicant's name and signature and more on this Bellsouth Mobility of hular Agreement. Image: An analysis is a second structure and the second structure and the second structure and the second structure and the second structure. Image: Analysis is a second structure and the second structure and second structure. Image: Analysis is a second structure and structure and structure. Image: Analysis is a second structure and structure. Image: Analysis is a second struct		ho penalty Bellsouth in the event the custome with the paging service SPACE OF A service NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
This is to certify that I have positively identified the above applicant's name and signature and more on this Bellsouth Mobility of hular Agreement. and that it matched the signature and nome on this Bellsouth Mobility of hular Agreement. area above a substant in the second state of the second state. area above a substant in the second state. Name of Company Date at the second state. Date at the second state. IN ITY OTY ITEM NUMBER (Required) DESCRIPTION IN ITY OTY IN ITY OTY IN ITY OTY ITEM NUMBER (Required) DESCRIPTION In Ity OTY Invoice Outsing above above at a substate state. State. Invoice Outsing above above at a substate. State. <t< td=""><td></td><td>ho pendity Bellsouth in the event the custome with the pediging service server the custome server the custom</td></t<>		ho pendity Bellsouth in the event the custome with the pediging service server the custome server the custom
This is to certify that I have positively identified the above applicant's name and signature and that it matched the signature and name of this Bellsouth Mobility Children Agreement. A second secon		ho penalty Bellsouth in the event the custome were the custome synchronized as a synchronized as a syn
This is to certify that I have positively identified the above applicant's name and signature and that it matched the signature and nome on this Bellsouth Mobility Chluker Agreement. and that it matched the signature and nome on this Bellsouth Mobility Chluker Agreement. and that it matched the signature and nome on this Bellsouth Mobility Chluker Agreement. and that it matched the signature and nome on this Bellsouth Mobility Chluker Agreement. and that it matched the signature and nome on this Bellsouth Mobility Chluker Agreement. Name of Company Date = 1 And T THIN NUMBER Required Date = 1 Base age of the signature of the signa		Autors Service A
This is to certify that I have positively identified the above applicant's name and signature and that it matched the signature and nome on this Bellsouth Mobility Chluker Agreement. Interview of the signature and nome on this Bellsouth Mobility Chluker Agreement. Interview of the signature and nome on this Bellsouth Mobility Chluker Agreement. Interview of the signature and nome on this Bellsouth Mobility Chluker Agreement. Interview of the signature and nome on this Bellsouth Mobility Chluker Agreement. Interview of the signature and nome on this Bellsouth Mobility Chluker Agreement. Name of Company Soles Representative and the signature. Intry OTY		Autors Service And
This is to certify that I have positively identified the above applicant's name and signature and that it matched the signature and name on this Bellsouth Mobility of hular Agreement. Interview is a struct of a struct in a struct	OPEN PRIN Service Service is exclude only with sellSouth Cellular Service is available only with sellSouth Cellular Service is available only with sellSouth Cellular Service is available only with sellSouth Cellular Service is exclude on the individue on the cellular phone(s) is terminated through the landline network is excluded in the cellular phone(s) is terminated through the landline network is excluded in the cellular phone(s) is terminated through the landline network is excluded in the cellular phone(s) is terminated through the landline network is excluded in the cellular phone(s) is terminated through the landline network is excluded in the cellular phone(s) is terminated through the landline network is excluded in the cellular phone(s) is terminated through the landline network is excluded in the cellular phone(s) is terminated through the landline is excluded in the cellular phone is is terminated through the landline is exclud	ho penalty. BellSouth in the event the custome with the bigging service Service the service Service of the service of the service of the service Service of the service of t
This is to certify that I have positively identified the above applicant's name and signature and that it matched the signature and nome on this Bellsouth Mobility of hular Agreement. Internet of the inter		Autors Subsection of Control of C
This is to certify that I have positively identified the above applicant's name and signature and that it matched the signature and norme on this Bellsouth Mobility of hular Agreement. A second and that it matched the signature and norme on this Bellsouth Mobility of hular Agreement. A second and that it matched the signature are stated to second a second and the		AUCTOR SUBJECT IN THE CONSTRUCT OF CONSTRUCT
This is to certify that I have positively identified the above applicant's name and signature and that it matched the signature and name ao this Relicouth Mobility Offuluer Agreement. Agreement is a constrained and the signature and name ao this Relicouth Mobility Offuluer Agreement. The signature are constrained and the signature are sintended are signature are s	Open Number Service BellSouth Paging Service may be discontinued at any time with Paging Service is available only with BellSouth Cellular Service cancels the cellular service identified by the mobile number of shall be automatically discontinued. TOTAL MONTHLY SERVICE (Excluding additional airtime charges and faxes) SERIAL NUMBERS MSN ESN MSN	AUCT - Several the custome in the periodity. BellSouth in the event the custome several the custome several the custome several the custome several the custome several the several the several the several the several the several the several the several the several the several the several the several the several the several the several the several the several the several the se
This is to certify that I have positively identified the above applicant's name and signature and that it matched the signature and name ao this Relicouth Mobility Offuluer Agreement. Start as an example a start as an example and the signature and name and the signature are start as an example and the signature are start as a start as	Open Number Service PellSouth Poging Service may be discontinued at any time with Proging Service is available only with BellSouth Cellular Service cancels the cellular service identified by the mobile number of shall be automatically discontinued. IOTAL MONTHLY SERVICE Coracle state cellular service identified by the mobile number of shall be automatically discontinued. IOTAL MONTHLY SERVICE Coracle state cellular service identified by the mobile number of shall be automatically discontinued. INTAL MONTHLY SERVICE Coracle state cellular service identified by the mobile number of the shall be automatically discontinued. INTAL MONTHLY SERVICE Coracle state cellular service identified by the shall be automatically discontinued. INTAL MONTHLY SERVICE ESN MSN ESN Install Branch porte DAM Make, Model & Color of Automobile D FM <td>Autors and a second sec</td>	Autors and a second sec

ъ. ч

-

.

.

2 ·

.

DWLEDGEMENT

1) Mobile # (2010 503-15) 1 DANUILE # 666 5. 2-75 Reference Number Credit 2) Mobile # (1/2) Q ESN Change Q No Install 3 1,762 100 54 Mobile.Number 3) Mobile # (🦯 17: 60 258784 Mobile # (10/10) 583-17532 ÷. E.S.N. CONSUMER - Complete Borri For The COMMERCIAL/CORPORATE COM e Bares 1, 2, & 3 BELLSOUTH Mobility 90 14 Yes Ne Existing Market Agent Code CONSUMER STORE O WITTER ADDAL SERVICE PLAN SELECTED Print the name and address res made to this ac munt has Local airtime minutes included per month: SKAN X CUSTOM CALLING FEATURES 90210 M.S. 3.4 Martin the Party First Name - Host A 6.P110 Last Name 24 Call Waiting 1253) - 19 1 O' Call Forwarding, O No Answer Transfer D . Three Party Conferencing State . Let Four (V C Any Two Features C Any Three Features 5912 2 4 Work Phone 112 12 100 11 1 200 11 41-121 OTHER א כמעארי די היהם אבאילאלי טוננט רא לא ארוווושיוני, יהדי אלאינויס D. Mobile Memo UNDER \$35,000 a montre of with Article Children is Social Security Number Description * 0 U \$35,000 - V \$35,000 - V \$50,000 - V 49.999 + \$74,999 \$89,999 \$105,999 Pager # Date of Birth D PowerCall One-Number Service STRACT OF STRATT STRACT STRATT STRATTS STRATT STRATTS STRACTS STRATTS STRACTS io. CI := \$106,000 & ABOVE \$114,999 D Nights & Weekends र्चन क्र State . Driver's License Number D Mobile To Mobile COMMERCIAL/CORPORATE Up to 48 hour processing time Visit of the second s Emergency Road Service* n Detailed Billing C · Toll Restricted an ankarria Diriga Messan Nirianne-rad 🖬 - Incoming Calls Only -C Outgoing Calls Only · 4 A Miscellaneous. Miscelloneous 1.1 Autor and a second s Description of the second seco CONTRACTOR CHAR Business Gun Meridian Phi EQUIPMENT INSURANCE 20 (ccep) Decline The state Phone Insurance finitial one Type of business: , C Corporation , C Sole Proprietorship or Partnership. O Other (Not available in all locations) 1 4 13.6 ÷ ACC THE 110 20 1143 144 Monthly Loss/Do Mech/Elect Z Deductible \$ 25. \$ 251; ive Premium Deductible Bank 🖸 . Mobiles Account Numb \$ 2.95 \$0 かけ~~。 - 秋日 2 Portables/Transportabl \$ 2.95 n Trade Reference ntact :: unt Nambe Jontact \$ 25 7 3 50 4 54 5 25 7 3 50 4 54 5 4 5 1 7 5 1 7 5 1 7 5 D Accessories \$ 35 \$1.95 111 1.44 115 15+5 Irade Reference to you Contact with the Minn Phone M Account Number VICE, YOU II . 50 J.S. "If you subscribe to pho £0,134%2 Trade Reference 244 2017 Contact Assesses and The Phone Number acknowledge that you have received and read the brochure for some and understand the terms and conditions under which same is offered outlined therein: ATTACH COPY OF DRIVER'S LICENSE OR PICTURE I.D. I understand that in the event of a loss, theft or damage, replacement of my cellular This is to certify that I have positively identified the above applicant's name and signature phone may be greater than the original price. 2 Curtomer Initiated and that it matched the signature and name on this BellSouth Mobility Cellular Agreement. ter etterangen – er bet unter gab etter verseer Apprehenden – Er bet unter gab etter verseer TOTAL MONTHLY SERVICE (Excluding additional airtime charges and taxes) ULAT sits ruly rest and a what in the or Setup LONG DISTANCE Name of Company of Coldina is ben't in the the NOW names and Date : D Other There are an 6 272 5225 1977 - 5682 IN TY OTY ITEM NUMBER (Required) DESCRIPTION SERIAL NUMBERS NET UNIT PRICE 3/2130110 DK:5120 MSN Line and :1 100 Sandada ad ESN MSN 199:00 E LINE CON 00501657 ESN (JD MSN C ESN MSN ESN in the case of a state of the second between the second between the second second second second second second s ****** MSN CINE CO ระสวาต d). Alter FSN D Paid with Order, D Check/Cash Receipt # is which specific have Sales/Install Branch r. Invoice Customer Net 30 PO. 4 Inventory Branch Tranhle Subtotal Credit Card O MC. D Visa O AMEX D Other accompany to notat Card # \$:377 :: 2+M Security Code Authorization Unlock Code Depiration: • an Rate i الجيون المراجد مؤوله Bill with Service and a service and the service of all adding Sales Director's Approval SCHEDULED INSTALLATION 1.42 s (Balance \$ _____ Monthly Payments of terier to the set O AM Make, Model & Color of Automobile Down Poyment Other: Arrestation of the ser 1.18 D PM Customer is purchasing equipment printarily for business purposes of examples to a source of the sou Sours Date Astern Time Lader of an alicense Plate Numbers Anthree Et Act as a transmission of the second secon と思想 以をと 1 HOPEWLERINAR GUANSUIL ough the landline netw rk (conn 10.20 Star Ship one 品爱"得的表现的 3-29-..... á. Customer certifies that the pricing plan chosen has been explained and that the Customer understands the components of the pricing plan, including but not limited to the activation fee, monthly applicable taxes, (rental agree trached Terms and Conditions ments, where applicable) and agrees to same. access charges, usage charges, liquidated do mer elects to subscribe to BellSouth Mobility's 1 By signing below, the undersigned Dustomer actnowledges the accuracy of the above information and has received serving Agreement from ASS CORP. Automation and has received a statistical and the accuracy of the above information and has received and the accuracy of the accuracy of the above information and has received a statistical accuracy of the accuracy of the above information and has received a statistical accuracy of the accuracy of the above information and has received a statistical accuracy of the accuracy of the above information and has received a statistical accuracy of the accuracy of the above information and has received a statistical accuracy of the accuracy of the above information and has received a statistical accuracy of the accuracy of the above information and has received a statistical accuracy of the accuracy of the above information and has received a statistical accuracy of the accuracy of the accuracy of the above information and has received a statistical accuracy of the accuracy of the accuracy of the accuracy of the accuracy accuracy of the accuracy accuracy of the accura understands, and accepts the attached Terms and Conditions of the standard terms and Conditions ditions of of the above information and has received a copy of, read, understands, a . хĎ Date / API State Customer

						Sales / In Branch	stall	Inventory Branch			ier 24 - 757
					S ORDER		DER ORIGI		BWS CREDIT		FR #
				SOLDITO:	CUSTON			SHIP TO:	CUST	OMER NUMBER	
			CUSTOMER		877498441		,	CUSTOMER NAME	0110-00-00-00-00-00-00-00-00-00-00-00-00		
			ATTENTION			·		ATTENTION			
			ADDRESS	· · · · ·				ADDRESS		·	
			CITY, STATE,	ZIP	[.]	•		CITY, STATE, ZIP		····	· ·.
			WORK PHO	ONE .	HOME PH	IONE		WORK PHONE	HOM	PHONE	
				STATE	- BRANCH - COUN)		() – All tax exempt sales req	uire exemptio) n certificate	to be attache
			TAX A SPECIAL P	REA:		· · · ·	EXEMPT	to Customer Order.			
				· · ·	·.	•					<u></u>
			ole and	Www.usternitiorelline	101778784725-071 W	143713 (1++N)/2 (P) > >		National constant (1990) - and a second	Atonia Vitania	CLICK CONTROL	The second second second second
			TY QTY:			DESCRIPT	ION - 2 Cost	SERIAL NUMBERS	RALPRIC		AMOUNT
				/	Ť.			MSN	NER 1	50	
						<u> محد الم المراسي - مر</u>	1	MSN			·
				• • •		23061	'	ESN SPACE		75	
								MSN			
								IESNo 534			
	٠			I		, ·		MSN	A laster		
		1.				ζ		MSN			
								ESN (ASS)			·.
	÷						•	MSN			
							<u>.</u>	ESN 7	385	;:	· ·
				· · ·		· · ·	· .	MSN	en streen i		
				· · · ·		· · · ·	······································	ESN TANK S	ZNONTA	XABLE	<u> </u>
			🗆 Paid	with order Check #			• .	. •	A SUBI		
		ļ.			.# а памех	#	- Evo	Auth	TAX	ATER	
				C 18 (Shop fees only)		"	Lvb			37%	ALL STREET SHOW AND
			Colle	ect on Delivery						IER AL	
			□ cc_		GM	sa tao 1					
			🗆 Bill v	with Service			AGER'S APPROVAL)	MAAN	ENI	
			Bala	ince \$	wil	hMon	thly payment:	s of \$	-	NCE STO	
					8	MAKE MOI			LUCENSE PLATE N		
			· /] PM					2441年1月1日。
			SPECIAL IN				• •	· · · ·		·	
							•				
				:			÷			· · · ·	a sa
					· · · ·	e iz elektristi		· · · · ·			
			NOTICE TO) THE CUSTOMER: By signin	g below, you acl	nowledge that you	have received	a copy of this Order Form, that y	ou agree that the	information abc	we is correct and
			claimer of hereby pe	f warranties and limitation ersonally guarantees, unc	s of remedies in onditionally and	paragraph 2 and t at all times, the p	he indemnities i ayment when a	ms and conditions on this side n paragraph 3. If customer is a c due of all indebtedness of such	orporation, partn corporation, partn	ership, or other nership, or ony	entity, the unders other entity. Cus
-			nereby au regarding	Ithorizes Company to inve Customer with credit og	stigate the cred encies. If this is	it of Customer and a credit card purc	gives Company hase, I authoriz	y permission to check Customer's e BellSouth Mobility to charge the	s credit and to pro he total balance.c	wide and excha lue to the card	nge credit inform number shown o
	••		M.L	11 ASTA	5/0137					· .	
Star 32 9 906/ 1) Mobile # (Ser) /1	11275 - 2351556075 L										
--	---										
Credit Reference Number DESN Change D No Install D rsion 2) Mobile # (502) 3110	11276 DN 23516575880										
- 60 501225	E.S.N										
	E.S.N.										
	@/BELLSOUTH Mobility										
Martet Zagent Coder (Sales Kep. Dasting customer?	SERVICE PLAN SELECTED 1 1 1/1/100 5K S 1500										
Print the name and address of person responsible for charges made to this account:	Local airtime minutes included per month:										
Responsible Party First Name with the states MI (& Responsible Party First Name with the states MI (& Responsible Party First Name with the states MI (& Responsible Party First Name with the states Name of the states Na	O Call Waiting \$										
Billing Address/Post Office Box's (1) Address Address (1) Address/Post Office Box's (1) Address (1) Addres	No Answer Transfer Three Party Conferencing The Party Conferencing										
City State Zip+Four CS 5 8/W	Any Three Features \$\$										
Home Phone	O Mobile Memo										
Social Security Number	Pager /										
Jone of Birth Jone of	O Nights & Weetends \$										
Driver's License Number 516 1997 516 19	C Emergency Road Service' S Detriled Billing S Detriled Billing S										
	Incoming Cills Only Surgering Calls Only Surgering Calls Only Surgering Calls Only										
Up to 48 hour processing time	O Miscellaneous \$ O Miscellaneous \$										
Company Name	LONG DISTANCE DellSouth Long Distance										
Supervisor's Name Control State State Supervisor's Phone No.											
Does street address differ from billing address? Tes No Is this branch or subsidiary of the main office? / Yes No	CELULAR PHONE INSURANCE S Molt available in all locations) finiting and										
Type of business: Corporation O Sole Proprietorship or Partnership O Other	Premium/Month Deductible										
Bank Name 202 USA Account Officer Middle City Provide Account Number Account Officer Middle City Phone Number Account Number	T central rione 3273										
Trade Reference Contact A Phone Number Account Number	the terms and conditions under which same is offered outlined therein.										
Trade Reference	phone may be greater than the original price.										
Trade Reference State - Contact - 1955 estates Phone Number Account Number	PAGING										
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE L.D. This is to certify that I have positively identified the above applicant's name and simplure	Pager Number										
and that it matched the signature and name on this BellSouth Mobility Collular Agreement	Service BellSouth Paging Service may be discontinued at any time with no penalty. BellSouth										
D.M. Turno	 a riging service is available only with Bellsouth Celhuar Service. In the event the custome cancels the celhular service identified by the mobile number above, the paging service shall be automatically discontinued. 										
Name of Company / Site for cardinary Siles Representatives Signature											
Date and my Mathematican albert sitting thint Name	(Excluding additional airtime charges and taxes)										
LN TY QTY CITEM NUMBER (Required)	SERIAL NUMBERS NET UNIT PRICE										
5.) - NOL 5/40	123513568952 NIC										
- $ -$	ESN 23516518000 \$ W/C										
2 D Vale AAGe ACT ABY											
	ESN S // // //										
Draid with Order . O Check/Cash Receive # 1995	ESN Structure Subtood										
D Invoice Customer Net 30 PO: # Invo	canch Toxible Subtrotal										
Expiration Authorization Security Cod	te Unlock Code Tox Rate										
	D INSTALLATION Order Total										
Bill with Service The Scherol	3										
Bill with Service Saves is control of the service Sales Director's Approval) SCHEDULE Balance \$	A M Make, Model & Color of Automobile										
Bill with Service Scales Director's Approval Schebulg Balance S With Monthly Payments of Schebulg Schebulg Schebulg Sche	AM Make, Model & Color of Automobile. Jown hryment DPM PM License Plate Number Redance Dae										
Bill with Service	Construction of Automobile Color of Automobile Color of Automobile Construction Constructin Construction Construction Construction Construc										
Bill with Service Scales Director's Approvall Bill with Service With Bill with Service Monthly Payments of Approvall Scales Director's Approvall SCHEDULE Bill with Service Dother: Scales Director's Approvall SCHEDULE Scales Director's Approvall Monthly Payments of Approvall Scales Director's Approvall Customer is purchasing equipment primarily for Dusiness purposes. Customer is purchasing equipment primarily for Dusiness purposes. CustoMit Active of days in set The monthly service charge of the following inorth, subsequently you w Mill Show an isonalthy service charge of the following inorth, subsequently you w Mill Special Pricing Flams are subject to eligibility requirements and approval lneigibility for Special Pricing Flams are subject to eligibility requirements and approval lneigibility for Special Pricing Flams are subject to eligibility requirements and approval lneigibility for Special Pricing Flams are subject to eligibility requirements and approval lneigibility for Special Pricing Flams are subject to eligibility requirements and approval lneigibility for Special Pricing Flams are subject to eligibility requirements and approval lneigibility for Special Pricing Flams are subject to eligibility for Special Pricing Flams are subje	Construction of Automobile AM Make, Model & Color of Automobile Down hyperet Source of Automobile PM License Plate Number Source of Automobile Source Source of Automobile Sourc										
Bill with Service Schep Director's Approval) Schep Director's Approval) Balance \$	AM Make, Model & Color of Automobile Am Make, Model & Color of Automobile Am Make, Model & Color of Automobile Am										
Bill with Service Schleb Director's Approval) Balance \$	AM Make, Model & Color of Automobile Am Make, Model & Color of Automobile Am Make, Model & Color of Automobile Am Ample Automobile Am Ample Automobile A										
Bill with Service Schepting Schepting Balance \$	AM Make, Model & Color of Automobile Am Make, Model & Color of Automobile Am Automobile										
Bill with Service Schle Director's Approval) Bolance \$	AM Make, Model & Color of Automobile Am Make, Model & Color of Automobile Am Make, Model & Color of Automobile Am Am Annual American Americ										
Bill with Service SCHEDUE Bill with Service with Monthly Payments of Scheduler Monthly Payments of Monthly Payments of Scheduler Scheduler Passant Material Customer is purchasing equipment primarily for business purposes. Customer is business purposes. Customer of days in set The monthly service charge and days notice! Direct of the number of days in set Customer of days in set The monthly service charge and days notice! Direct of the number of days in set Customer is billed in Judgitable to signifulty requirements and approval heighblity for Special Primary of the part of the number of days in set A cannetion charge of 30 - Diger month will apply during any month in which a cull originated for subject to charge of 30 days notice! Scheduler of the number of the primary to the customer and horizes Company to the customer and horizes charge and the pricing plan dropes during any month in which a cull originated for any care charge and the pricing plan dropes during the customer and horizes company to the customer and horizes charge and the pricing plan dropes during the pricing plan dropes during any month in which a cull originated for any care thorizes thange the pricing plan dropes durin	AM Make, Model & Color of Automobile Deventoryment Turne Make, Model & Color of Automobile Deventoryment iccense Picte Number Make Automobile Deventory of Automobile Particle during the first billing period. IEDGEMENTS vice during the first billing period. All pricing does not nullify this agreement. from the cellular phone(s) is terminated through the kindline network (connection charge is h 18). mattern regarding Customer with credit bureaus. ds the components of the pricing plan, including but not limited to the activation fee, monthly pplicable) and agrees to same. All 2000 Automobile Devents and Conditions of Automobile Devents and Automobile Devents and Automobile Devents and Conditions of Automobile Devents and Automobile Devents and Automobi										

	102 100	a de la composition de la comp	3) MODIE # (•	
-002	102 jac	Date	4) Mobile # ()	E.S.N.			
CONSUMER	- Complete Boxes 1 & 3	COMMERCIALIC	ORPORATE - Complete Boxes	1,2.83	0 -			
Market	Agent Co	xde Sales Rep.	Yes No. Existing customer?		• @ 8	ELLS	OUTHN	Nobility
CONSID	45D		· · ·			• •	(A)	1 4-1
Print the	name and address of the	person who will be respons	sible for charges made to this	account:	cal airtime minutes included pe	r month:	Line Hol	<u>{ _{5_</u>
Basconsible	HUG K4 K	2/35	ist Name	C	USTOM CALLING FEATURES			
	CON NE	1Hoz Pal	<u>XJ.</u>	🔤 🖥	Call Waiting Call Forwarding		\$ \$	
	msycu	- <u>K7</u>	(173.3	📓 🖥	No Answer Transler Three Party Conferencing	•	\$ = \$	
	ay the table of the sec		500635500		Any Two Features Any Three Features		ss	
- nome Phone	a a state a st	 March 11, 13, 15, 19, 19, 19, 19, 19 March 11, 13, 16, 19, 19, 19, 19, 19, 19 		F 0	THER			
Social Securi	ty Number (20-01)	24.059520 av 14	UNDER \$35,000 \$35,000 \$	49,999	Mobile Memo Description		\$	
Date of Birth		Male Female	50,000 \$ 575,000 \$ 590,000 \$	74,999 89,999 105,999	Pager # PowerCall One-Number Serv	rice	\$	
Driver's Licer	nse Number	State	\$106,000 - \$ \$115,000 - A	114,999 BOVE	Description Nights & Weekends		s	
O COMME	RCIAL/CORPORATE -	n angan sugar sugar sugar su Pangan sugar sug			Mobile-To-Mobile Emergency Road Service*		\$ \$	
Up to 48	-hour processing time	Purchase (Order Number		Detailed Billing Toll Restricted		\$ \$	i i Natio
Company Na		Tax Exemp	nt Number	Ea	Incoming Calls Only		\$	
Sumaniania	Name	1944 - UNE W(H.F. CI) Sumanian	rs Phone No.		Miscellaneous	· ·	\$?	refer en Nacional Nacional America (Nacional Nacional America (Nacional
Deers	and and the second	CODE CODE VISUE	Bus	siness	MISCERATEOUS			
Is this branch	h or subsidiary of the ma	in office?) Yes: ??*!!!! No	Bittarchie O Albert	S S	OUIPMENT INSURANCE	iet Accent	Decline	land all and
iype of busin	ess: U Corporation	- CI Sole Proprietorship of CI JIAN (2010) SA DALA SA CI MAN (2010) SA DALA SA	raunensnip LiUtner S≷ta Station Base		Not available in all locations)	- nucpl		
Bank Name	Account C	Ficer Phone Nu	mber Account Numb	per and a	· · · · · · · · · · · · · · · · · · ·	vonthly Loss/ remium Dec	Damage Mech/Ele uctible Deductib	ict le
Trade Refere	ince total . Contact .:	ms a movint Phone Nu	mber/s Account Numb	xer (Mobiles Portables/Transportables	\$ 2.95 \$ 2.95	0 \$25 35 \$25	4月1日),1月1日(1月13日) 1月1日(1月14日)(1月14日) 1月19日(1月14日)(1月14日)
Trade Relere	ence Contact	Phone Nu	mber Account Numb	Der (Accessories	\$ 1.95	35 , , , , , , , , \$ 25 ,	en e
Trade Refere	Contant							and an arms
This is t	I COPY OF DRIVER'S I to certify that I have positive the signature and national	JCENSE OR PICTURE LD ivery denuified the above a me on this BellSouth Mobili	mber Account Numb pplicant's name and signature ty Cellular Agreement.	e and that	If you subscribe to cellular phon acknowledge that you have receive the terms and conditions under v understand that in the event of may be greater than the original	e insurance an ived and read th which same is o a loss, theft or price.	J/or emergency road te brochure for same flered outlined there damage, replacemen somer initiats	and understand
ATTACH	I COPY OF DRIVER'S (to certify that I have post	JCENSE OR PICTURE I.D hvely identified the above a me on this BellSouth Mobili	mber Account Num pplicant's name and signature ty Cellular Agreement.	e and that	If you subscribe to cellular phon acknowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha	e insurance an wed and read th which same is o a loss, theft or o price.	Vor energency road ne brochure for same fifered outlined thefe damage, replacemen somer Milats)	service, you and understand in
ATTACH	HOP OF DRIVER'S I to certify that I häve posi ed the signature and nar mpany	JCENSE OR PICTURE I.D kvely dentilled the above a me on this BellSouth Mobili	mber Account Num pplicant's name and signature y Cellular Agreement.	e and that	If you subscribe to cellular phon acknowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original or TOTAL MONTHLY SERVICE (Excluding additional airtime cha DONG DISTANCE DeliStanCE	e insurance an wed and read th which same is o a loss, theft or price.	Vor energency road to brochure for same flered outlined thefet damage, replacemen some hillist)	service, you and understand in.
ATTACH This is t it match Name of Co Date	Hos Conact	Phone Au JCENSE OR PICTURE I.D Ively dentified the above a me of this BellSouth Mobili Sales Rep Print Nam	mber Account Num pplicant's name and signature ty Cellular Agreement.	e and that	If you subscribe to cellular phon acknowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha LONG DISTANCE RellSouth Long Distance Other	e insurance ann wed and read ti which same is o a loss, theft or price. (Ce arges and taxes	Vor energency road he brochure for same fiered outlined thefe damage, replacemen some hilas)	serve, you and understand in. t of my cellular pl s
ATTAC: This is t it match Name of Co Date LN TY	HOS CONICCI I COPY OF DRIVER'S I to certify that I hävö posi ed the signature and nar impany ITEM NUMB	JCENSE OR PICTURE I.D hvely identified the above a me on this BellSouth Mobili Sales Rep Print Nam ER (Required)	mber Account Num pplicant's name and signature y Cellular Agreement. Presentative's Signature te DESCRIPTION	e and that	If you subscribe to cellular phon acknowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original COTAL MONTHLY SERVICE (Excluding additional airtime cha CONG DISTANCE ReliSouth Long Distance Other	e insurance ann wed and read ti which same is o hich same is o hich is of price.	Vor emergency road te brochure for same fifered outfilled thefet damage, replacemen somer hilling)	service, you and understand in and understand it of my cellular pl
ATTACH This Is t it match Name of Co Date LN TY S	Hos Conlact I COPY OF DRIVER'S (to certify that I have posi- ed the signature and na- mpany Mark NUMB Mark NUMB	Phone Au JCENSE OR PICTURE I.D Ively dentified the above a me of this BellSouth Mobili Sales Rep Print Nam ER (Required)	mber Account Num pplicant's name and signature by Cellular Agreement by Cellular Agreeme	e and that	III you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v I understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha CONG DISTANCE BellSouth Long Distance Other SERIAL NUMBERS SN 235/05/2/77	e insurance ann ived and read ti vicd and read ti vicd same is o a loss, theft or o price. Com arges and taxes	Vor emergency road to brochure for same flered outlined thefet samage, replacemen somer Hillist)	service, you and understand in and understand it of my cellutar pl ss
ATTACH This is t This is t Imatch Name of Co Date LN TY LN TY S S S	Hos Conact H COPY OF DRIVER'S I to certify that I have post ed the signature and nar- mpany OTY TTEM NUMB I NUMB I NUMB I NUMB	Phone Au JCENSE OR PICTURE I.D hvely identified the above a me on this BellSouth Mobili Sales Ref Print Nam ER (Required) 2 1 6 0	mber Account Num pplicant's name and signature ty Cellular Agreement. presentative's Signature te DESCRIPTION	e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE [Excluding additional airtime char LONG DISTANCE ReliSouth Long Distance Other	e insurance ann wed and read ti which same is o a loss, theft or o price	Vor emergency road te brochure for same fiered outlined thefet damage, replacemen somer Halats)	service, you and understand in. and understand in. it of my cellular pl
ATTACH This is t it match Name of Co Date LN TY S S S	Hos Conact H COPY OF DRIVER'S I to certify that I häve posi- ed the signature and nar- mpany TTEM NUMB MUK: 4 MUK: 4	JCENSE OR PICTURE I.D dvely identified the above a me on this BellSouth Mobili Sales Rep Print Nam ER (Required) 2 1 6 0 5 4 2 2 4 7 1 - 0	mber Account Num pplicant's name and signature y Cellular Agreement presentative's Signature ne DESCRIPTION	e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha CONG DISTANCE RellSouth Long Distance Olther SERIAL NUMBERS ISN SN SN SN SN SN SN SN SN	e insurance ann ived and read ti viced and read ti viced and read ti viced and read ti a loss, theft or of price	Vor emergency road to brochure for same ffered outlined thefet samage, replacemen somer hitsta)	service, you service, you service, you service, you service, you service and understand in, and understand i
ATTACH This is t Imatch Mame of Co Date LIN TY S S S	Hos Conact H COPY OF DRIVER'S I to certify that I have post ed the signature and nar- mpany TEM NUMB MUK M S NJY S NJY S NJY	LICENSE OR PICTURE I.D hvely dentified the above a me of this BellSouth Mobili Sales Rer Print Nam ER (Required)	mber Account Num pplicant's name and signature ty Cellular Agreement. presentative's Signature te DESCRIPTION	e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha LONG DISTANCE ReliSouth Long Distance Other SERIAL NUMBERS ISN SIN SIN SIN SIN SIN SIN SIN SIN	e insurance ann ived and read ti vicid and read ti vicid and read ti vicid and read ti a loss, theft or operating to a loss, the to a loss, the to a loss, the to a loss, the transformation of the top operating to a loss, the to a l	Vor emergency road to brochure for same ffered outlined thefet samage, replacemen somer Hittet) NET UNIT PRICE S S V 8 7 7 S	service, you and understand in, and understand in, and understand in, and understand in, and understand service se
ATTACH This is t Imatch Ima	Hos Conact I COPY OF DRIVER'S I to certify that I have posi- ed the signature and nar- mpany OTY ITEM NUMB MUK: C S NUK: C	Priorie Au JCENSE OR PICTURE I.D hvely identified the above a me on this BellSouth Mobili Sales Rer Print Nam ER (Required) S 42: 16 0 S 42: 24 7 S 42: 40 0 S 42: 4	mber Account Num pplicant's name and signature ty Cellular Agreement. presentative's Signature DESCRIPTION	e and that a and that a and that a a a a a a a a a a a a a a a a a a a	II you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha COTAL MONTHLY SERVICE (Excluding additional airtime cha ReliSouth Long Distance Other	e insurance ann wed and read ti which same is o a loss, theft or o price. (we reges and taxes	Vor emergency road te brochure for same fiered outfiled the/et samage, replacement somer Hilath) NET UNIT PRICE S S U S S S	service, you service, you service, you service, you service, you service you s
ATTACH This is t it match Name of Co Date LN TY S S S	Hos Conact H COPY OF DRIVER'S I to certify that I häve post ed the signature and nar- mpany TTEM NUMB MUX: 4 MUX: 4 MU	Phone Au JCENSE OR PICTURE I.D Avery Identified the above a me on this BellSouth Mobili Sales Rep Print Nam ER (Required)	mber Account Num pplicant's name and signature by Cellular Agreement. presentative's Signature te DESCRIPTION	e and that e and that where the second secon	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v I understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha CONG DISTANCE RellSouth Long Distance O Other SERIAL NUMBERS ISN SN SN SN SN SN SN SN SN SN SN SN SN S	le insurance ann ved and read ti ved and read ti ved and read ti hich same is o a loss, theft or o price	Vor emergency road to brochure for same ffered outlined thefet samage, replacement somer Hillsh) NET UNIT PRICE S S U 8 9 5 S S	Service, you and understand in and understand in and understand in and understand in and understand service state service
ATTACH This is t Imatch Ima	HOPY OF DRIVER'S I Coertify that I have post ortify that I have post orter and nar mpany TEM NUMB NUMB NUMB NUMB NUMB Order To Check/Cash sustomer Net 30 P.O. 4.	Phone Au JCENSE OR PICTURE I.D hvely identified the above a me of this BellSouth Mobili Sales Fler Print Nam ER (Required) 2160 5422 247 4 Find Autor Receipt (mber Account Num pplicant's name and signature ty Cellular Agreement. presentative's Signature te DESCRIPTION	e and that e and that	III you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha LONG DISTANCE REISOUTH Long Distance Other SERIAL NUMBERS ISN SN SN SN SN SN SN SN SN SN SN SN SN S	e insurance ann ived and read ti victi same is o a loss, theft or o price. Course inges and taxes	Vor emergency road to brochure for same ffered outlined thefet samage, replacemen somer Hittet) NET UNIT PRICE S S VI 8 7 S S	service, you and understand in,
ATTACH This is t Imatch Ima	Hos Conact I COPY OF DRIVER'S I to certify that I häve posi- ed the signature and nar- mpany OTY ITEM NUMB NUMB NUMB NUMB NUMB Order DCheck/Cash Second DKC DVisa n	Priorie Au JCENSE OR PICTURE I.D hvely identified the above a me on this BellSouth Mobili Sales Rer Print Nam ER (Required) Autoritzation	mber Account Num pplicant's name and signature ty Cellular Agreement. presentative's Signature DESCRIPTION	e and that e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha COTAL MONTHLY SERVICE (Excluding additional airtime cha COTAL MONTHLY SERVICE (Excluding additional airtime cha SERIAL NUMBERS SIN SN SN SN SN SN SN SN SN SN SN SN SN SN	e insurance ann wed and read ti which same is o a loss, theft or o price. 	Vor emergency road en brochure for same fiered outlined the/ei samage, replacement somer Hillsh) NET UNIT PRICE \$ \$ \$ \$ \$	Samuel, you and understand in an
ATTACH This is t Imatch Ima	Hos Conact Constant of the signature and name of the signature and na	Priorie Au JCENSE OR PICTURE I.D Avery Identified the above a me on this BellSouth Mobili Sales Rer Print Nam ER (Required) 2 6 0 5 + 2 + 2 + 2 + 1 + 1 Recept # Recept # Recept #	mber Account Num pplicant's name and signature by Cellular Agreement. presentative's Signature DESCRIPTION	e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v I understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha CONG DISTANCE RellSouth Long Distance O Other	e insurance ann ived and read ti vich same is o a loss, theft or o price	Vor emergency road to brochure for same ffered outlied thefet samage, replacement somer initiati)	Service, you and understand in and understand in and understand s more standard S
ATTACH This is t Imatch Ima	HOPY OF DRIVER'S I Coertify that I have post occurring that I have post occurring that I have post occurring the signature and narr mpany TEM NUMB Order TO Check/Cash Sustomer Net 30 PCO. and D MC D Visa I I I I I I I I I I I I I I I I I I I	Phone Au JCENSE OR PICTURE I.D wey dentified the above a me on this BellSouth Mobili Sales Ref Print Nam ER (Required) 2160 5425 4254 Finit Nam ER (Required) Authorization Authorization Try Authorization Try Authorization Try Authorization Try Authorization Try Authorization	mber Account Num pplicant's name and signature ty Cellular Agreement. presentative's Signature DESCRIPTION	e and that e and that	If you subscribe to cellular phon acknowledge that you have recei- the terms and conditions under v I understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha COLONG DISTANCE Dell'South Long Distance Oliter SERIAL NUMBERS ISN SN SN SN SN SN SN SN SN SN SN SN SN S	e insurance ann ived and read ti which same is o a loss, theft or o price. It inges and taxes	Vor emergency road to brochure for same ffered outlined thefet samage, replacemen somer Helisti NET UNIT PRICE S S S S S S S S S S S S S S S S S S S	Service, you and understand in,
ATTACH This is t Imatch Ima	HOS CURICE SI CU	Priorie Au JCENSE OR PICTURE I.D hvely identified the above a me on this BellSouth Mobili Sales Rer Print Nam ER (Required) 2 6 Q 5 + z - 4 - y T Authorization Server Authorization Server Authorization Server Wth	mber Account Num pplicant's name and signature ty Cellular Agreement. presentative's Signature DESCRIPTION An 2 1 7 6 3 DESCRIPTION	e and that e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha CONG DISTANCE RellSouth Long Distance Onter	e insurance ann wed and read ti which same is d a loss, theft or oprice. To	Vor energency road te brochure for same ffered outlined the/et samage, replacement somer hillst) NET UNIT PRICE S S S S S S S S S S S S S S S S S S S	Service, you and understand in and understand in and understand in and understand s and understand s s s S S S S S S S S S S S S S
ATTACH This is t Imatch Ima	Hos Conact H COPY OF DRIVER'S I to certify that I häve post ed the signature and nar- mpany TTEM NUMB MUX C MUX C S Order D Check/Cash Dustomer Net 30 PC. 1 and D MC D Visa. 1 NC D Visa. 1 Processor 2 Cother D Cother S purchasing expirment	Priorie Au JCENSE OR PICTURE I.D Avery Identified the above a me on this BellSouth Mobili Sales Reg Print Nam ER (Required) 2 1 6 0 5 4 2 4 2 4 4 Print Nam ER (Required) 5 4 2 4 2 4 4 Construction of the sale Print Name Print Nam ER (Required) 5 4 2 4 4 0 5 4 4 4 4 0 5 4 4 4 4 4 0 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	mber Account Num pplicant's name and signature by Cellular Agreement. presentative's Signature te DESCRIPTION Account Agreement.	e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v I understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha CONG DISTANCE RellSouth Long Distance O Other SERIAL NUMBERS ISN SERIAL NUMBERS ISN SN SN SN SN SN SN SN SN SN SN SN SN S	e insurance ann ved and read ti viced and read ti viced and read ti viced and read ti a loss, theft or or for a loss, theft or or for arges and taxes to for to for to for ake, Model & C verse Plate Nut	Vor energency road to brochure for same ffered outlined thefet samage, replacement somer Hillish) NET UNIT PRICE S S S S S S S S S S S S S S S S S S S	Samuel you servery you and understand in an
ATTACH This is t Imatch Ima	COPY OF DRIVER'S I o certify that I have post or certify that I have post	Phone Au JCENSE OR PICTURE I.D wey identified the above a me on this BellSouth Mobili Sales Rer Print Nam ER (Required) 2 1 6 0 5 422 49 1 1 2 1 6 0 5 422 49 1 1 5 42 49 1 1 5	mber Account Numt pplicant's name and signature by Cellular Agreement. presentative's Signature DESCRIPTION CESCRIPTION	e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime char LONG DISTANCE D	e insurance ann ived and read ti which same is o a loss, theft or o price. Course inges and taxes	Vor emergency road be brochure for same ffered outlined thefet samage, replacement somer Hellet) NET UNIT PRICE S S S S S S S S S S S S S S S S S S S	Samuel voi server you and understand in and unde
ATTACH This is t Imatch Ima	COPY OF DRIVER'S I coertify that I have posit coertify that I have positive that a set of that I have positive that i have positive that a set of that I have positive th	Priorie Au JCENSE OR PICTURE I.D hvely identified the above a me on this BellSouth Mobili Sales Rep Print Nam ER (Required) 2 1 6 0 5 4 2 4 4 0 5 4 4 4 10 0 5 4 2 4 4 0 5 4 4 10 0 5 5 4 10 0 5 5 6 10 0 5 6 10 0 5 7 10	mber Account Num pplicant's name and signature ty Cellular Agreement. presentative's Signature DESCRIPTION An 2 1 7 6 3 Cellular Agreement. DESCRIPTION (Safes Director's Approval) Monthly Payments of Service (Customer's Innilas) and Service (Customer's Innilas) and Service (Customer's Innilas) and Service (Customer's Innilas) and Service (Customer's Innilas) an	e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha CONG DISTANCE RellSouth Long Distance Other SERIAL NUMBERS ISN SN SN SN SN SN SN SN SN SN SN SN SN S	e insurance ann wed and read ti which same is o a loss, theft or oprice. More than the same is of the same is of the same is of the same more same is of the same is of the same took Code	Vor energency road to brochure for same ffered outlined the/et samage, replacement some hills) NET UNIT PRICE S S S S S S S S S S S S S S S S S S S	Samuel void server you and understand in an
ATTACH This is t Imatch Ima	COPY OF DRIVER'S I Coeffy that I häve post certify that I häve post cerify that I häve post cerify that I häve	Priorie Au JCENSE OR PICTURE I.D Avery Identified the above a me on this BellSouth Mobili Sales Rep Print Nam ER (Required) 2.160 5.42.24 Print Nam ER (Required) 5.42.24 Print Nam	mber Account Numt pplicant's name and signature by Cellular Agreement. presentative's Signature te DESCRIPTION ACCOUNT ACTION CONTRACT Approvally Monthly Payments of Access of the number of the signature of the second second second presented to the number of the signature of the second se	e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha CONG DISTANCE RellSouth Long Distance O Other SERIAL NUMBERS ISN SERIAL NUMBERS ISN SN SN SN SN SN SN SN SN SN SN SN SN S	e insurance ann wed and read ti which same is o a loss, theft or price. 	Vor energency road to brochure for same ffered outlined thefet samage, replacement some hillint) NET UNIT PRICE S S S S S S S S S S S S S S S S S S S	Service, you and understand in
ATTACH This is t Imatch Ima	COPY OF DRIVER'S I o certify that I have positive of the signature and narrow of the signature and narrow of the signature of the	Priorie Au JCENSE OR PICTURE I.D wey identified the above a me-on this BellSouth Mobili Sales Ref Print Name ER (Required) 2 1 6 0 5 4 22 9 4 7 1 - 0 5 4 2 9 4 7 1 - 0 5 4 4 1 - 0 5 4 1 -	mber Account Numt pplicant's name and signature by Cellular Agreement. presentative's Signature DESCRIPTION CONSTRUCTION CONSTRU	e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v I understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha DISTANCE DISTA	e insurance ann ived and read ti which same is o a loss, theft or price. 	Vor energency road be brochure for same ffered outlined thefet samage, replacemen same Helitit) NET UNIT PRICE S S US US 7 S S S S S S S S S S S S S S S S S S	Service, you and understand in and understand in and understand in and understand in a service state s
ATTACH This is t Imatch Ima	COPY OF DRIVER'S I coertify that I have posit coertify that I have posite coertify that I have posi	Priorie Au JCENSE OR PICTURE I.D hvely identified the above a me-on this BellSouth Mobili Sales Rep Print Nam ER (Required) 2 6 0 5 42: 40 5 42: 40 6 40 7 40 6 40 7 40	mber Account Num pplicant's name and signature ty Cellular Agreement. presentative's Signature DESCRIPTION CUSTON CUSTON (Sales Director's Approval) Monthly Payments of Sales Director's Approval) (Sales Director's Approval) CUSTOM be prorated for the number of the following month, subsec netts, and approval. Inslighting comparison of the number of the provadu for the provadu forthe provadu for the provadu for the provadu forthe provadu for t	e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha CONG DISTANCE RellSouth Long Distance Other SERIAL NUMBERS ISN SN SN SN SN SN SN SN SN SN SN SN SN S	e insurance ann wed and read ti which same is o a loss, theft or oprice. mges and taxes to for the law lock Code ake, Model & C sense Plate Num ense Plate Num ense Plate Num ense Plate Num ense Plate Num	Vor energency road to brochure for same ffered outlied thefet samage, replacement some hills)	Samuel voi service you and understand in and und
ATTACH This is t Imatch Ima	Hose Contact COPY OF DRIVER'S I o certify that I have post ed the signature and nar mpany TEM NUMB OULC	Priorie Au JCENSE OR PICTURE I.D Avery Identified the above a me on this BellSouth Mobili Sales Rep Print Nam ER (Required) 2 1 6 0 5 4 2 4 7 4 2 1 6 0 5 4 2 4 7 4 5 4 7 4 7 4 7 4 7 4 5 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4	mber Account Numt pplicant's name and signature ty Cellular Agreement. presentative's Signature DESCRIPTION DESCRIPTION Class Director's Approvally Monthly Payments of Second Customer's Initials) we present approval finitials () (Customer's Initials) () (Customer's Initials) () () () () () () () () () () () () () (e and that	If you subscribe to cellular phon schnowledge that you have recei- the terms and conditions under v understand that in the event of may be greater than the original TOTAL MONTHLY SERVICE (Excluding additional airtime cha CONG DISTANCE RellSouth Long Distance O Other	e insurance ann wed and read ti which same is o a loss, theft or price. Cou inges and taxes	Vor energency road to brochure for same ffered outlined thefet samage, replacement some hilling NET UNIT PRICE S S S S S S S S S S S S S S S S S S S	S

·

. .

1) Mobile # (1572) 216 /	(- R/10 ESN. 5660025781
SN Change . D No Install D Comp. 2) Mobile # (562	<u>1-0.11</u> . <u>Zu6000.75156</u>
Mobile Number, 3) Mobile # (522) 87/	1-0312 E.S.N. 506 00025740
1133340 Date Added 4 Mobile # (502) 851	1-0313 E.S.N. 206 000 25773
CONSUMER Condete Boost 1331 COMMERCIALCORPORATE Complete Boos 1, 2, 43	
Market Agent Code Sales Republication Existing customer?	BELLSOUTH Mobility
O CONSUMER - Print the name and address of the person who will be responsible for charges made to this account:	SERVICE PLAN SELECTED
Responsible Party First Name	Cozal automo menutes included per monute
Billing Address/Post Office Box	Call Forwarding
City	Three Party Conterencing
	OTHER
Social Security Number	Description
Date of Birth 2114 2017 - 665 201 18 322 Male 324 Female - 575,000 - \$89,999 - \$90,000 - \$105,999 - \$105,999 - \$105,999	O Description
Driver's License Number 12 0027 Add State (30.3261) 510.000 - S10.000 - S10.000 - ABOVE	Nights & Weekends S Mobile-To-Mobile
O COMMERCIAL/CORPORATE	Emergency Road Service*
WESTERN KUL GAS MILLING PURCHASE Order Number	Toll Restricted
Company Name	Outgoing Calls Only
Supervisor's Name as a state of reprint and Supervisor's Phone No. 2012 Yrs. In	(One Time Charge)
Does street address differ from billing address? Styles (14/34/14/14)	Miscellaneous
s uns orange or subsidiary or une man oncer a test who have no subsidiary or subsidiary of the international sole Proprietorship or Partnership D Other	Signal Dial Direct Plus" (initial one) Accept
THE NEW PARTY PART	remium Deductible Deductible
Denx Name Control Cont	Mobiles \$2.95 \$0 \$25 \$0 Portables/Transportables \$2.95 \$35 \$25
Lindoe Heletence Istantian Contact and Participation of the Hone Number	Accessories \$ 1.95 \$ 35 \$ 25 \$ 45 \$ 45 Accessories Accesso
Trade References Trate of Lorract Transmission Fronte Number Account Number	The volume state of the second
ATTACH COPY OF DRIVER'S LICENSE OR PICTURE LD. 3	TOTAL MONTHLY SERVICE (Excluding additional airline charges and taxes)
In matched the signature and name on this BellSouth Mobility Cellular Agreement, Statistical Analysis and the Mark of Statistical Central Lattice and Agreement, Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (2014) 2014 Per Mark 1999 (2014) 2014 (2014) 2014 (201	LONG DISTANCE D BellSouth Long Distance O Other
and the second states of the	
ne se sentemente a production de la consection de la consection de la consection de la consection de la consect La consection de la consect La consection de la consec	800.351.2400
Name of Company Sales Representative's Signature	
Date	
LN TY OTY TO TITEM NUMBER (Required) TO FY ANT DESCRIPTION	SERIAL NUMBERS
There a subject to be south reduced to be the the the the there are a subject to be a subject	ESN \$
and the second second and the second s	Image #16.45 20.47 40.45 ESN 1.6 5.1
teres - sector terminate alle des alle del aductions of the sector	ESN \$
	ESN State State
Device Customer Net 30 PO/# 2010/00/00/00/00/00/00/00/00/00/00/00/00/	all Branch
Card Card Card D MC, D Visa, D AMEX, D Other Expiration	CodeUnlock CodeTre Bete
and the second	ble) s set.
Bill with Service. (Sales Director's Approval) SCHED Balance \$ 104 0 (control to matrice with the Service of Monthly Payments of	
Castomer's Initials)	AM Make, Model & Color, of Automobile
1 Customer is purchasing equipment primarily for business purposes.	ate the License Plate Number Streams Due
CUSTOMER ACKNON	WLEDGEMENTS
5.9 In a monthly service charge and any minutes included will be provided for the number of days in service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following month, subsequently you we have a monthly service charge for the following monthly service char	vice auring the instruming period.
All Special Pricing Plans are subject to eligibility requirements and approval, ineligibility for Special . When using your phone outside your home service area (rearring) rate may vary.	J Pricing" does not nullify this agreement. I a mark to be to be the second second and the second second second I second secon Second second
🗃 🔹 Loon distance is billed in addition to airtime 😳 😳	h 18).
. The appropriate liquidated damages (up to \$240.00) may apply for early cancellation (see paragraph	mation monotion Customer with confl humans
• The appropriate figuidated damages (up to \$240.00) may apply for early cancellation (see paragraph • Customer authorizes Company to check Customer's credit and to provide and exchange credit infom • Customer certifies that the pricing plan credes has been explained and that the Customer understange	nds the components of the pricing plan; including but not limited to the activation/account setup
The appropriate figuidated damages (up to \$240.00) may apply for early cancellation (see paragraphing control of the provide and exchange credit informed to the provide and exchange credit informed control of the provide and the provide and the provide and the provide and exchange credit informed control of the provide and the provide and the provide and the provide and exchange credit informed to the provide and exchange credit informed to the provide and the provide	nds the components of the pricing plan, including but not limited to the activation/account setu; where applicable) and agrees to same.
The appropriate figuidated damages (up to \$240.00) may apply for early cancellation (see paragraph Customer, authorizes Company to check Customer's credit and to provide and exchange credit lation Customer certifies that the pricing plan chosen has been explained and that the Customer understarts for monthly access charges, using charges, figuidated damages, applicable taxes, (rental agreements, Customer elects to subscribe to BellSouth Mobilitys) month agreement. By signing below, the u copy of, read understands, and accepts the attached Terms and Conditions of Service Agreement (Form	matchine galaxies and see the pricing plan, including but not limited to the activation/account setug where applicable) and agrees to same. Indersigned "Customer" acknowledges the accuracy of the above information and has received in #BSCC 10-96).

: :

CONSUMER Complete Bores 13.314 COMMERC	adding to the strength of Providence of Providence of the strength of the stre	_)	E.S.N		·
	CIAL/CORPORATE -Complete Bores	(2.15)		y signed set	·
Market	Yes No Existing customer?		BELLS	OUTH M	obility
CONSUMER – Print the name and address of the person who will be a	responsible for charges made to this a	SERVICE PLAN SEI	ECTED	<u></u>	34.9
Responsible Party First Name Milarity S	Last Name	CUSTOM CALLING	FEATURES	No Charge	
Billing Address/Post Office Box	Zip + Four	Call Forwarding No Answer Tran. Three Party Cor Any Two Feature	sler Merencing es	S SS SS SS SS S	
Home Phone To a state of the Area of the State of the Sta	Work Phone	Any Three Feat	µres	\$\$	
Social Security Number	ANNUAL INCOME UNDER \$35,000 \$4444 \$50,000 \$50,000 \$75,000 \$105,000\$100,000 \$105,0000\$100,000\$100,000\$100,000\$100,000\$100	Mobile Memo 9.999 Description 9.999 Pager # 9.999 Description 14.999 Description Vivis Weeker	Number Service		
COMMERCIAL/CORPORATE Up to 48-hour processing time Corporation Pur Development Devevelopment Development Development Development Deve	Chase Order Number	Mobile-To-Mobil — Mobile-To-Mobil — Emergency Roa — Detailed Billing — Toll Restricted — Incoming Calls	e Id Service* Only	s ss ss s s ss	
Company Name Terrer Ultransmither Company in Tax Supervisor's Name Provident States of the from billion addressed States Does street address of the from billion addressed States	Exempl Number 22") GES-SLOO Dervisor's Phone No. 24 2010/02/2010 - 50 - 24 50 - 2010/02/2010 - 50 - 2010	In	Dnly Int Setup Fee ge)	40 200 201 201 201 201 201 201 201 201 20	
Is this branch or subsidiary of the main office? Yes Type of business:Corporation Dole Proprietors	No ship or Partnership O Other	EQUIPMENT INSUF Signal Dial Direct Pl (Not available in all i	ANCE us ^e (initial one) Accept ocations) Monthly Loss/ Pramium Doc	Decline Damage / Mech/Elect	
Bank Name Account Officer Pho 77 Trade Reference 2017 Contact 11:55 - 11:05 - 21 Contact 11:55 - 11:05 - 21	ne Number Account Numbe	Mobiles Portables/Transp	\$ 2.95 portables \$ 2.95 \$ 1.95	\$ 0 \$ 25 \$ 35 \$ 25 \$ 35 \$ 25 \$ 25	te de la composition de la composition de la composition de la de la composition de l de la composition de la de la composition de
Trade Reference	ne Number Account Numbe	1 vou subscribe to acknowledge that yo	cellular phone insurance an u have received and read th	d/or emergency road set no brochure for same an	rvice, you d understand
Martin Martin Martin Martin Address Martin Martines Comparison (2017) 1994 - Comparison (2017) 1994 - Comparison (2017) 1994 - Comparison (2017) 1994 - Comparison (2017) 1995 - Comparison (2017) 1995 - Comparison (2017) 1995 - Comparison (2017) 1995 - Comparison (2017) 1995 - Comparison (2017		SYBE	ng Distance		
Date - The second and	int Name	B			
LN TY, OTY , ITEM NUMBER (Required) -	DESCRIPTION				IET UNIT PRICE
er ver eine eine eine eine statistische statistische eine statistische statistische statistische statistische s		MSN			
en erselltet von gehaltet in verbiltet erste erzen die erste bei erste erzen die erste bei erste bei erste bei	un de la companya de	MSN ESN			
Romai (1996) de Concercio das publicas a	seria contra a	MSN ESN		1. 200 (200 (200)) (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
	a di la constante de la constan Nota de la constante de la const	MSN ESN			Aller St.
D Paid with Order D Check/Cash Receipt #	and a second and a second s	Sales/Install Branch	a sector de la sectores de la sector	u ele gos planet	ion-Taxable Subtotzi
D Credit Card, D MC, D Visa. D AMEX: D Other.		Card #	United Code	4) . 	axable Subtotzi
Children	A REALING THE AREA THE REAL PROPERTY OF THE PR	(If Applicable) 214 Applicable		11. 21-22. 1992	ax Rate
a blow on the set of t	(Sales Director's Approval)	SCHEDULED INSTALLATION	de toda	ensi juuyan C	rder Total
Bill with Service	Monthly Payments of	t i i i i i i i i i i i i i i i i i i i	AM Make, Model & Co	kor of Automobile	lown Payment
Bill with Service with service Balance \$ with service balance \$ with service balance \$ with service balance \$ \$		Date with Time	PM License Plate Nur	nber	Satance Duo
Bill with Service Balarice \$Other \$Other Customer is purchasing equipment primarily for business	(Customer's Initials)				
Bill with Service Balarice \$ Customer is purchasing equipment primarily for business	(Customer's Initials) a purposes.	R ACKNOWLEDGEMENTS	二、三十二文字板 ?	ेत, त्रियः स्ट्रॉस्ट २,०१३,११९ २,०१७	
Bill with Service Balance 5. Customer is purchasing equipment primarily for business Customer is purchasing equipment primarily for business . The monthly service charge and any minutes include . The first month's bill will show a monthly service charge . All 'Sjecial Pricing Plans' are subject to eligibility re . When using your phone outside your home service a	(Customer's Initials) purposes. CUSTOME d will be protected for the number of to arge for the following month, subseque quirements and approval. Ineligibility refac (noaming) rate may vary.	R ACKNOWLEDGEMENTS lays in service during the first billing p antly you will be billed one month in ac for "Special Pricing" does not nutlify thi	eriod. tvance. s agreement.	an a	a galan da sa pantangla. An ing pantang pantang pantang pantang pantang pantang pantang pantang pantang pantang Na da pantang p Na da pantang p
Bill with Service Balarice \$	(Customer's Initials) purposes. CUSTOME of will be prorated for the number of n urge for the following month, subseque quirements and approval. Ineighting 1 area (maming) rate may vary. The apply for early cancellation (see ciredit and to provide and exchange of been explained and that the Customer the customer and the subsequences of the bits of the sub- tion of the subsequences of the sub- tion of the subsequences of the sub- tion of the subsequences of the sub- section of the subsequences of the subsequences of the sub- section of the subsequences of the subsequences of the sub- section of the subsequences of the subsequences of the sub- section of the subsequences of the subsequences of the sub- section of the subsequences of the subsequences of the subsequences of the sub- section of the subsequences of the subsequences of the sub- section of the subsequences of	R ACKNOWLEDGEMENTS days in service during the first billing p ently you will be billed one month in ac for "Special Pricing" does not nullify thi I paragraph 18) redit information regarding Customer I understands the components of the momente understands	eriod. Ivance. s agreement. with credit bureaus. pricing plan, including but n	t imited to the activatio	n/account setup f
Bill with Service Balarice \$	(Customer's Initials) a purposes. CUSTOME and will be prorated for the number of 1 arge for the following month, subseque quirements and approval. Ineligibility area (naming) rate may vary.) may epply for early cancellation (see) arealit and to provide and exchange been explained and that the Custome damages applicable taxes, (rental ag month agreement. By signing bu	R ACKNOWLEDGEMENTS days in service during the first billing p entity you will be billed one month in ac for "Special Pricing" does not nullify thi readi information regarding Customer r understands the components of the remements, where applicable) and agre slow, the undersigned "Customer" ack	eriod. Nance. s agreement. with credit bureaus. pricing plan, including but n es to same. vowledges the accuracy of t	ot limited to the activation an	n/account setup f d has received a

17 · ·	14 A	i ag	YSBV	210 R	ତ ହା	SHIPPI	123	5 0110	YYA	RNO	80	Sale: Bran	s/In ich	stall		312-		ie îr	ाः इन्हे	'nve Brar	ntor nch	Y	· . ·¿	18 Q	967) B	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		E NUM (77)	IBER 973	<u>7" </u>	90
	DER	YPE FS (aria FR a	- 1	SKO	THE A		01 2		523				. 14	404	1 () NAL O	(A (6	<u>بر ت</u>	يند. بر د		е. . г	1.8\/	У	្ត មូរ មូលព		1104	1.04	12 1 42	VUIATA:	<u></u>
Ň	影		ST	B					USTC	MER	NUM	BER	1.114		- <u> </u>	101:1		100 A	HENAL IKO C			6	10.25		<u>а</u> сі	ISTOME	RNU	MBER	DER.R.S	0000 F	14 C
USI	OMER		LE L		×						(A G C	CT:						TOME	R NAM				<u> 228</u>			0 01 22	A1		2108 E	1.)	<u>- 11</u>
168 TTE	11	1	U	SY	~ ('ry	112	Of the	9318	SUC	10 24	907	1944 1944	ART SA KC (留)	i NGA I YU	81.3 817.1	1.1	11 11 11 11 11 1 11 11 11	-141	<u></u>	ι. . (r (3)		цую.			17 10 17 10	ann a Ann a	97,743. 197,743.	1647
. 7		<u>קורר</u>	Y 372	W W	<u>Аг үе</u>	0211	(4-j_)	1. 197	171	(WA9	MOT	<u>n: :</u>		<u>-905</u>		1 23 21		<u></u>	14	,			11 - 15 - 19		'CG21 - 04	imii th Chatte	15 A) 19 23	itaat Juide	SAM 3 1834 -	0.85%) 14.042	ີ ເກັ
DD L'1	دess ARU	909 2.,Y	83917) 1310 A	HW): FIU2	84)CI 3(0-2)	or:56	143 88.5	51009 1 0311	HIE.S	ния Сил.	10N) 2235	יינ כו י נגר	500 i 20 i 61	ац ја На Ус	¥÷x ⊂⊂ €	(C 1)): G3	ADI	RESS	516 S 1 19 0 - 1	· ·. · ··		12 J. 14 J	· · · ·	010 201	10 (2) 1 A - 1	48285 NO 46	48-0 041.5	8 AN 1940	rofiai Ized s	88-554 K (233-	90 T
ITY,	STATE	ZIP	i		2317	MAR	A¥/	73411	DAT	INAM	12-10	2:11- 2:11-	StA	YEA -		1103 (СП	STATE	ZIP						·	er er er er Sekener	ii. Kii	Sie (C	101 01		
VOF	K PHC	ONE?		14 <u>4.9</u> 1 YNJ	IPAU	CIII)	VAH))))))))	DI TY DME I	HONE	2171 9 TAH	130 IT 07	V 31.			0137	wc	RK PHC	DNE				1 .*	15	5 HC	DME PHO	NE	<u></u>	<u>1904 i</u> Kirok		
).() 	· · · ·)1(***) 2(**)	039.28		40.63	STATE	E BR	ANCH'	COU	0:)1H NTV.,	(9 QI 	. 1	- 30 P			ana v References References		tox	exer	not	sale	s re	nuire	exe	() mn	ion ce	ertif	icoti	eto i	e att	ach
TA	<u>X A</u>	RE	A:110	1,320 (1)Y. (1)Y.	10 0	205.1 11.601 11.601	11A: Y JT)			1203 1203	10 (S) 12 (C) 12 (C)	19465 1977-11 1977-11			Ð	CEMPT	to	Cust	tom	er C	Drde	r.		(1).2	(1)P) (1)1 (1)		3613	10010 	10.10		-22
Υ.Υ. 	2.5M 2.5M	00,1	1021	H3MO	CUST CUST	Y8 03	243	ROR	KOT	202) 202)	(8 G3	2412		UHM.	. ୦	1 12A	ur 19	ITA O	1.63.7	1	- 15	ці.		- 19	2987 - 2987 -	as and to Al Costan No costa	99.00 19101	H DI (210/01	2132 Y	HA
							1				1	•: 4 - <u>6</u> -		• ••					.91A.:	2 A.	: ://:	. N. 1	20° 212	SDU	N 21	1019 14	931 9	01HE	BAVH	DELA TI	111
ł		瀫										DEX.	K H	ið N	ia.	D.	É.	10,6	ERIA	UNU	IMBE	RŚĄ		ЗĮ.	Ш.					NAL	X
20) 1	A IU	91333 :AM	5HT.	0.10	S ON	ARISI	GY.A	INAU YKAU	NON HOD	76 O	78413 1614 (A102	10336 10379	112:50	6 9.0) (1.	NUCO:	MS	N ¹¹¹¹	01110	<u>1.1670</u>	12333	Circle Circle	indeles Horne	1014 1	USED USED	NY DA	194	37976 UJ 16	VEDEK VILED	57 850 55 820	DIVE
i e		in S	3HT 5	знти У	W W	77	6	рянч D	8¥ (ISING 1	8 A 8	1.30 -	μ	яот /2	2	i PLCY	10	1/38	刻	1244	140	10:3	01221	id/	4	193	10:	אן כב ז סא ו	18471C 17942	920	12
T		1										n 2011 2022		19.1	21.24	İwl	MS	N N 10+			verse.	1977.1	anto si	tra la		ഘന്തി	2.61		2000Ar		H
26)	4(J.#1	eniup	n ()	n 6	in P	int s	sn puo	2les	(110)	initot	il ilur	;- <u>,</u> ,	2	l ^{i y}	noqn: vno				er.g	1013				1	3,5	0	incser Prespri	アフ	Gerration	nD. i dia
٦	- °0	Jont	eth or	om da	09-10	ance f	lod t	unpoie	of the	WOI	veto	ermit	e Se sio	n ized	çia 0	di ci (МS	No.15.	inern'	yea a	Nici o f	U276 A	on spi	(144) - A	10 :0 4 .5i	due aub Dany nin	i arto Ortici	d ofter shall	eceive: olonce	ខេត្តទេះ៧ ជំណុខ J	י יירקי מול
ı	الجور به عنه	bra min	l'oti 2 of	an li) iot s	idol 9	d ss	nethek	on lic	12 191	iston	10, (O)	riach (Seine	bao a anti-	ं 229 	s poss	100	影			Ser C		10	Ž,	l i fae	equinnites	27	USTON) torit (neva 5*) ni -i
2	5 1 - 10	្នះពា	by Cu	obort	y be	 Swithe	Syd:	bewelle	trui:		numix	e Com o	et: kt e	ទទួរបរ	: 0,5	กอกระ	MS	N Altera	ANY Z	in the second	náv	संबंध	Seras	750	h7%	stice. requipit	10 e 10 e	any sù r Gere) of out of trism	ninate u Nacional	net dW 1
:								i e la Filita	<u> </u>	· · · · · ·				VDI V	i cal	limii :-	EST.	<u>1914</u>	h h	17,20					ine: c	: ::::::::::::::::::::::::::::::::::::	:)(*) 	สบทมะ การการก	n laeth 2 - thirt	interi :: 	992
	100	arad		- Maria Lucra		him t	ihas	mere	sta:F				Natio	· · ·····	:	nui.	MS	N		44	4 (C) 4	athth		231	the state	احد م	1		.SEVIA:	N CHAT	JUA Fol
		3 90 		م، بې مند بې	21.11	901075 901 92	بمجا			4929	in.						MS	N	ins a	J.Dil			\$2.16 1			200 - 04. 	<u></u>	 <u>. കു</u> എന്ന	riceson Transco Secondo	tional des tions des tions des	
	, sat	жа	b าอพิเ	buet d	i no i	nomos	npa	of this	simi	i bnc	o staa	navo:	3 PH.	.ətqq:	n ert	t io re	,EŞI					1		37	600	. 1900	⊕e 10	docad beo d	io id-L concit	Alooni doomd	ф.,
;	h-cii	w 19	rilsp	t pon	wtze.	b by C	त्य व २० म	d in th	lio ic deloi	such such	<u>สีสีสีสี</u> 10 ก	สายา ได วิชิติรา	to al	inioir. Nutio	d Ca yon:	не ото 1 Уава	MS	Niv	លិកដា ដំណូ	<u></u>	(1954,¥15	<u>196-101</u>					ner acti	। 03 भा	cii ch 29 lice	i di sui d i E 190001 S	-1: 30.5-1
it.	pa t	''D''Z	202.1	l othe	o bri	ว าวเกต	uste.	u‼ by i	dělo hd:	ch ùi any l	bréo no of	-riou: Dilout:	ी. 25 फ	ection. Seton	orine Non	in c v in c		꺫	dina	. 60		n or hief			n Jaa No ⁴ 1	essaro Ve contis	titi Jože	ni yaa	, ргоуч Совіс	to 2901 vd hats:	ातः इन्द्
Ċ,	Påid	 Fŵi	រ: ស្រា ក ¹ 67	lero Isixe I	cvoi Che	cR7#10	3165-4 1971	191 190. 0W D 20	ali oi ote c	i obei	ocu:h	ni.su Irigma	stantio Chrise	i ko e zidt s	ur a Johu	ANDRA 29 mili	ir os ir ost	1-02013 1 V ¹ -91	ស សេ សង្គ្រា		suuus Voem	··· . :.	म्ब २२ हो। द्वार पुरि	0.9		NAXABL BIIOTAL	罰	11700 0.500	i Juni e Ni the ț	ີ ອານອີດ ເວລາ ແອ້ດ	en i Ion
0	Invo	oice,	Cust	ome	Net	,30 P,	Q:#		: 1~		di Sov	nord	n en a	utiya: una r	ः २१ • २०	oyinn. Harri	3 - 30 	le. Di Goolie	ser. A c	t vin	·	iti Shire	50000 1000		知り	VAULER HIOTAI	题	VID Y	lico	70	
	ha b Crea	ensb dit (enos ard	ed llo	is siu	sched	SA a		ner EX-r	(0:12 #.1.5	ii ony	oult c	د ت <u>ا</u> زر	nit:	li	Exp.	1 (CA)	nt In Ar she	Auth.				11. Y			GRAN.		4:000 1 4-11	er, inter of letic	in anti)	i seti interi
	oco	2 18	(Sho	p fe	es or	nly)		ç,2:4+‡			р ^а н Халта																	tion tion	iw 1501	ily cchi	o In com
710) 0	h Cus NoO	icuz ect	lo lin on D	elive	drian r y	ogreei	eirti	eing to	5100	louor	Vibri	en the	214792	i the .	556 0	u ieub	RI ME	90 (C)	67.104		.e.1361	UC.	e dib	10	i i						
ij,	<u>کا</u>	lo to	l ond	ilono	tibro	ב. מעובר לוויל	inter une la	ious v		y pers	dista:	i éoiv han :	્કરે કા	p of th	ie s 	utong Neciri	aadt ⊖et	no vra vilua	ionoi, istic	اند م ذر رو	្រូមីន ខេត្តដ	1960. 1960	inig en Socatio	2:5 12:1				10 V00	due of	100 C	
ő	Bill	2ini with	io m Ser	t elt vice	pniu	b sınit	01 :	tit mo	n no	q 10's	loriv (GEI	ni 19" NERAL	MAN	AGER) w9 's ap	PROV	. 010 y 1)	CHI: VO	some	00 HD	erwie I	40). -	le to a		1340 1124	ONN VATENT		voivos artaei	n çilə e a fəli	-uluani Maios	e srit Noue
s't	Bálċ	ancè	u\$:91	1 tions	14	2.2	<u>р</u> 10500	itten c	w w	, ith <u>?</u>	1001	ho) i	Mor	1thlý	pay	men	ts jof	s <u>[]</u>	<u>197</u>	.] ₄₂	۱ <u>۲</u>	۰. ۱	<u></u>	See 1					変態	7 94)	
p	Oth	er:	· · ·		· ·											`. 	2			<u></u>	۱ <u>د اسمبرا</u>	<u> </u>			25 (S 18 (S	DUE					
), ATT	& TIA	AE Q	SCHI	DULEI /iniam	INST 537	ottatio This	N ₁₉₈		rtiës 10 N	onov DPP	ins. Mos	MAK	E, MO	DEL &	COL	or of d llo		OBILE	on s Péli	: 40 - 20	nya ana nya ana	er gi At jas		icens 2011	E PLAT	E NO) 10 5090	bae : Mary	insmis mittor	e: UNC	ockico chi lice	DEr:: (1993)
PEC 190	IAL IN	ISTRU 12290		s e ola	<u>ка п.,</u> i,).10	l estille) Digni	Switch	enor	Telep	alido	ton o Mere			- <i>44</i> 31/72	si. e State	airt.	240.9	ница 61: П				ing part		i Vi tet	rolatić nitenorj	,	andars Sinceres Sinceres	्रिल्ट ः ed ध	attana Niting	
•	1.4:	<u>: -ii</u>		hin ar	1 <u>778 </u> 2 21.10-	ataan a	<u>Ilnris</u>	<u>itiri t</u>	<u>in'29</u>	<u>m'd-</u>	<u></u>	<u>ind</u> tro Galaise	<u>. : .</u> : . '	<u>, 1 inte</u>	<u>-12 k</u>	<u>vint r</u>	·		<u>torni</u> Nači		·			60 60		ii corwp Giftia a	<u></u>	<u>***63*</u> 	<u>into in</u>		ain <u>).</u> Dian
ni li	#1997	JHF.	HU!/2	121.00	5-100	ruyo-y	, CHU	0, 6110471					Q	, 1996) 	0 Qin 1				05,0		درد ریدی ۱۰، درون			- ,111 , 1 A	1	-10 2243 21-21-04	алар 24 Сулоса С	1.4.41	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	<u></u>	
oite	ui-so	m sr	t sim	si no	i viita	om toir	i ller	2 19050	icus.	nt and	ienio:	ေ ၁၅re	sirin.	.::ŋ	20 01 (V)	914 ¹ 21	512i X 1. (1)	ં	10-3-10 2000) 818 (р- () 1944 —		nicio A ber	Nap V	Ci ei T-	(). 	238M	DIA JAN	137 D H)
			• . •				<u></u>	(e _{ta})																					•		
OT	CE TO	D TH d th	E CUS	TOM J hav	:R:By /e,re	signir od:an	ng b id ui	elow, y ndersta	ou á	ckno and	wied	ge tho e;to	ot you be b	u hav ound	e rec by	ceived the te	a coj rms a	y of t	his O onditi	rder ions	Form on th	, that is sic	you ag	ree the	that t rever	he infor se side	mati inc	ion at luding	xove is but	correc	t and to th
lair ere	her o by pe	f wa erso	rrant hally	es ar guan	d lim	itatioi s, unc	ns of	remed itional	lies i ly ar	n pai d at	all ti	mes,	and the p	the in paym	dem ent	when	in pa due c	agra falti	ph 3. ndebi	If cu: tedn	stome ess of	r is a such	corpo	ratio prati	n, pa on, pa	rtnershi ortnersi	ip, oi hip, i	othe	r entity y othe	r, thể ui r entity	nders Cus
21 C			nzes stom	er wil	h cre	dit oc	esug benc	ore trie ies⊇lf t	- cre his i	0100	redit	Cond	i uno I ourr	n give Thasé	22	uthori	y peri ze fiel	ISouth	n to i 1 Mol	unec sility	to ch	arae	s crea the to	al b	iu io alanc	e due t	o the	i excil	d num	ber sho	own c

CUSTOMER

dit Refer	nge 🖸 N			· · · · · · · · · · · · · · · · · · ·						
	- مراجع الم المراجع الم	Mot	oile Number	3) Mobile # ()		E.S.N			
<u>ა0-∷</u> ხ	>/64	444	Bizlovani i	4) Mobile # (E.S.N			
CONSUM	LER - Com	lete Boues I & J Conve	COMMERCIAL	CORPORATE Complete Bo	es 1, 2, & 3		_		•	
<u> </u>	je.	Agent Code	<u>1.27.55</u> Sales Rep.	Yes I Existing custom	No	(9) BELL	SOUT	H Mob	ilit
CON	ISUMER -		321.110	c.) .		SERVICE PLAN SELECTER	ncluded ner month	45	- <u>s Z/-</u>	
NC.	time name					CUSTOM CALLING FEAT	URES	·	<u> </u>	
Responsi	ble Party Fi	rst Name and the set	M. Ales	Last Name		Call Forwarding	r	\$		• •
Billing Ar	ddress/Post	Office Box	12 A	112:43		 Three Party Confer Any Two Features 	encing	\$ <u></u>	_	
272	16	5-7-1-61	State.	Zip + Four		C) Any Three Features OTHER	•	**************************************		<u>()</u>
Home Ph	ione	11-12-12-12-12-12-12-12-12-12-12-12-12-1	n raka kan ansera 6 Anggangan sa sa	Work Phone		Description	18 1 - 1	\$	<u> </u>	
Social Se	· · · · · · · · · · · · · · · · · · ·	er er Bogersender her	2M 29593 (42-A)(ANNUAL INCOME		Pager # C) One-Number Servi	ce : .	- s	_	
Date of B	7	2012 299 86 10 1293	-Maler - Femaler	CL \$35,000 - CL \$50,000 - CL \$75,000 -	\$49,999 \$74,999 \$ \$80,000 \$	Description Nights & Weekends Mobile To Mobile	• •	_ <u>ş_</u>		
Driver's I	icense Nun	ther	Stote "	D \$90,000 - D \$106,000 -	\$105,999 \$114,999	C) Emergency Road S C) Detailed Billing	ervice*	\$	_	• .
0.00				U \$115,000 & ABOVE	ğ	 Toll Restricted Incoming Calls On 	ly .	\$		
Upt	o 48-hour p	okpokast - rocessing time	the as of Lab.			 Outgoing Calls On Miscellaneous 	ły.	\$	<u> </u>	•
	4 199 - 199 - 199 - 199 - 199 - 199	ones n <mark>ess</mark> anta disensa In 1860 Bena An <mark>es</mark> na In 1860 Bena An <mark>esna</mark>	Service of the servic	Joer Number	Ĩ	Miscellaneous LONG DISTANCE		\$	\$	<u>-(.)</u>
Compan	y Name	1		N NUMDER		BellSouth Long Dist Other		····	• • •	
supervis	ors Nome	an a	TAR & SIDENSO	SAS	Business				na presi a na Si pana ang tataka	<u>.</u>
Is this br	et address anch or sul	amer from buling add bsidiary of the main of	ress (, res <u></u> No fice? : Yes <u></u> No			(Not available in all loc finitial one!	rations)	Declina	<u>من المحمد ال</u>	<u> </u>
Type of L	business:	Corporation C So	le Proprietorship o	r Partnership 🔲 Other	wei in de s		Premium/I	Aonth Deductil	Je	
Bank Na	me	Account Officer	Phone Nur	nber Account Num	ber	"If you subscribe to cell	s 2.95 ular phone insurar	\$ 35 ce and/or emerge	ncy road service,	you
Trade Re	ference	Contact	Phone Nur	nber Account Num	ber	acknowledge that you the terms and conditio	have received and ns under which sar	read the brochure ne is offered outlin	for same and un ed therein.	lersto
Trade Re	terence	<u> </u>	NA PERMIT	- A	10.0					
_		Contoct	S. Phone Nur	nber Account Num	ber	I understand that in the phone may be greater	e event of a loss, the than the original p	nce.	Container La Contraction (Container La Container La Conta	llula
ATTU This and	ference ACH COPY C is to certify that it mat	Contact Contact DF DRIVER'S LICENSE OR that I have positively iched the signature and	Phone Nur Phone Nur PICTURE I.D. identified the above d norme on this Bell	nber Account Num nber e applicant's name and sign South Mobility Cellular Agree	ber ber oture ement.	I understand that in th phone may be greater PAGING Pager Number PIN Service BellSouth Paging Servic Is gravice is avail	e event of a loss, the than the original p remay be discontin able only with BellS	ued at any time w	Screment of my cr Datamer blicks S with no penalty. Be ce. In the event th	altula ISout e cus
ATT This and Rame of	derence is to certify that it mat Company	Contoct	Phone Nur Picture L.D. identified the above d name on this Bell Sches Re Sches Re	Account Num her copplicant's name and sign South Mobility Cellular Agree	ber ber drure ement.	I understand that in the phone may be greater PAGING Pager Number PIN Service BellSouth Paging Service BellSouth Paging Service is avail concels the cellular set shall be automatically TOTAL MONTHLY SERVIC	e event of a loss, the them the original p remary be disconting table only with Belly discontinued.	ued at any time w outh Cellular Service ne mobile number	S Cather bits S the penalty. Be ce. In the event the obove, the paging	Ilsout e cus y serv
Trade Re Artiv This and Rame of Rame of Date ar	derence ACH COPY C is to certify that it mat that it mat Company Company Company Company	Controct : F DERVER'S LICENSE OR that I have positively ched the signature and the si	Picruze L.D. dentified the above d name on this Bell Scless Re- Scless Re- Control of the second secon	Account Num ber Account Num c applicant's name and sign South Mobility Cellular Agree Account Num c applicant's Signature filt filt filt filt filt filt filt filt	ber oture ement.	I understand that in the phone may be greater PAGING Pager Number PIN Service BellSouth Paging Service is avail cancels the cellular ser shall be automatically TOTAL MONTHLY SERVIC (Excluding additional cellular)	e event of a loss, un than the original p re may be discontin able only with BellS vice identified by U discontinued. CE intime charges and SERIAL NUMBERS	ued at any time w outh Cellular Servi ne mobile number	Cathere bible Cathere bible S th no penalty. Be ce. In the event th above, the pagin s S NET UN	IlSouti serv
Trade Le Artiv This and Name of Date a y	derence ACH COPY C is to certify that it may that it may Company Company	Contoct	Phone Nur Phone	Account Num her copplicant's name and sign South Mobility Cellular Agree hich count Num count Nu	ber ber crure ement.	I understand that in the phone may be greater PAGING Pager Number PIN Service BellSouth Paging Service Concels the cellular set shall be automatically TOTAL MONTHLY SERVIC (Excluding additional c	e event of a loss, un than the original p re may be discontir able only with Bells vice identified by U discontinued. CE ERIAL NUMBERS	ued at any time w outh Cellular Servi ne mobile number	S The second state of the second state	
Reme of	lerence ACH COPY C is to certify that it mat that it m	Contoct	PICTURE L.D. Identified the above d name on this Bell Sclers Re Sclers Re Picture Pint Na United Sciences (Sciences) (Sci	Account Num her account Num account Account account br>account Account account account Account account account Account account account Account account	ber toure ement. A A A A A A A A A A A A A	I understand that in the phone may be greater PAGING Pager Number PIN Service BellSouth Paging Service is avail cancels the cellular ser shall be automatically TOTAL MONTHLY SERVIC (Excluding additional content) SIN 47527 SIN 47527 SIN 47527 SIN 47527	e event of a loss, un than the original p re may be discontin able only with BellS vice identified by U discontinued. CE Efficience charges and SERUAL NUMBERS	ued ot any time w outh Celhular Servi ne mobile number	Cathere bible Cathere bible S th no penalty. Be ce. In the event th above, the pagin S NET UN S e	
Those Service	derence of the second s	Contoct F DEVYER'S LICENSE OO (that I have positively (checked the signature and checked the signature and (checked the signature	Phone Nur Proce Nur Processon I PICTURE L.D. identified the above d name on this Bell Aname on this Bell Soles to Soles the Soles the Sole the Soles the Sole	Account Num her copplicant's name and sign south Mobility Cellular Agree hold to be a second	ber ber crure ement.	I understand that in the phone may be greater PAGING Pager Number PIN Service BellSouth Paging Servic Concels the cellular set shall be automatically TOTAL MONTHLY SERVIC (Excluding additional c SN 420202 SN 42020 SN 420 S	the event of a loss, the them the original p remary be disconting the mary be disconting able only with Belly discontinued.	ued at any time w outh Cellukar Service mobile number	Cathere bibbl Cathere bibbl S ith no penalty. Be ca. In the event the bore, the paggin bore, the paggin S NET UNI S s e	
Reme of	derence ACH COPY of is to certify that it man Company Company	Contoct	PICTURE L.D. identified the above d name on this Bell Scless Re- Scless Re- Re- Re- Re- Re- Re- Re- Re- Re- Re-	Account Num her account Num account Account account Account Account account Account Account account Account account Account Account account br>account Account ac	ber toure ement.	I understand that in the phone may be greater PAGING Pager NumberPIN ServicePIN Paging Service is avail concels the cellular set shall be automatically TOTAL MONTHLY SERVI (Excluding additional c SN 452 SN 452 SN 55 55 SN 55	e event of a loss, un than the original p e may be discontin able only with Bells vice identified by U discontinued. CE infume charges and SERIAL NUMBERS	ued at any time w outh Celhular Servi ne mobile number	Cathere bible Cathere bible Cathere bible S Cathere bible S NET UN S S S C C Cathere bible Cather	
Those Services	derence ACH COPY of is to certify that it man Company Company Company	Contoct	PICTURE L.D. identified the above d name on this Bell Schere Print Nor equired	hber hber account Num Account Num accoun	ber dure ement. A A A A A A A A A A A A A	I understand that in the phone may be greater PAGING Pager Number PIN Service BellSouth Paging Service is avail to concels the cellular set shall be automatically TOTAL MONTHLY SERVIL (Dxcluding additional c	e event of a loss, the them the original p memory be disconting table only with Bells discontinued. CE Lintime charges and SERIAL NUMBERS	ued at any time w outh Cellular Service te mobile number	Cathere bible Cathere bible S Tith no penalty. Be ce. In the event th above, the program S NET UN S S S S S S S S S S S S S	
Trobe E Art/ This and Dates W T	derence of ACH COPY C is to certify that it mat Company Compan	Controct PREVERS' LICENSE ON that I have positively that I have positively that I have positively that I have positively that I have positively TEM NUMBER (Re- 51, 2, 1, 2) 1, 2, 1 0, Check/Cash Receipt	Phone Nur Proce Nur Processon I PICTURE L.O. Identified the above a name on this Bell A name on this Bell Solies Re Solies Re	hber hber account Num account Num account Num e applicant's name and sign South Mobility Cellular Agree http://www.account. Account Num account Account account br>account Account account account Account ac	ber ber dure ement. A A E A A E A A E A A E A A E A A E A A A E A A A A A A A A A A A A A	Lunderstand that in the phone may be greater PAGING Pager Number	e event of a loss, thi them the original p emay be discontin able only with BellS vice identified by U discontinued. : CE infime charges and SERIAL NUMBERS	ued at any time w outh Cellular Service mobile number	kacement of my or kicket kacement of my or	
Credit	derence ACH COPY of is to certify that it man arrive to a set of arrive arrive arrive with Order to Custome to Card D	Contoct F DEVYER'S LICENSE ON F DEVYER'S LICENSE ON F DEVYER'S LICENSE ON F DEVYER'S LICENSE ON THEM NUMBER (Re- TEM NUMBER (Re- State State St	PICTURE L.D. Identified the above d name on this Bell Sches Re- Sches Re- Control of the second Sches Re- Control of the second Control of the second C	Account Num ber Account Num copplicant's name and sign South Mobility Cellular Agree Account Num Cellular Agree Account Num Cellular Agree Ce	ber ber crure ement. A E A E A A E A A E A A E A A E A A E A A E A A E A A A E A A A A A A A A A A A A A	I understand that in the phone may be greater PAGING Pager Number PIN Service BellSouth Paging Service is avail cancels the cellular set shall be automatically TOTAL MONTHLY SERVIC (Excluding additional c	e event of a loss, un them the original p emay be discontin able only with BellS vice identified by U discontinued. CE Entirtime charges and SERUAL NUMBERS	ued ot any time w outh Cellular Servi ne mobile number	Accentent of third of Castoner bibled S Castoner bibled S Castoner bibled S Net un S S S S S S S S S S S S S	
Trode Expirate This	derence ACH COPY (is to certify that it man Company	Contoct F DEVYER'S LICENSE OD (that I have positively checked the signature can checked the signature can checked the signature can a checked the signature	Phone Nur Phone Nur Picture L.D. identified the above a come on this Bell Soles the Soles the Come of the sole Picture Come of the sole Pic	Account Num account Num account Num account Num account Num bergplicant's name and sign South Mobility Cellular Agree account Num bergplicant's name and sign South Mobility Cellular Agree bergplicant's Signature b	ber ber cture ement.	I understand that in the phone may be greater PAGING Pager Number	e event of a loss, the them the original p emay be disconting able only with BellS urive identified by U discontinued. CE SERIAL NUMBERS SERIAL NUMBERS	ued at any time w outh cellular service to mobile number	Catarer bibbl Catarer bibbl S ith no penalty. Be ce. In the event the above, the pagain NET UNI S NET UNI S S S S S S Tomble S Tran Ente X	
C Prode & Ariv This and Name of Date ap Date ap UN T UN T Date ap Date	derence of the second s	Contoct	Picture Lo. Picture Lo. dentified the above d name on this Bell Sches Re- Sches Re- Guardian Guardian Control Conternation Control Conternation Conternatio Conternatio Conternation Conternation Conternatio	Account Num ber Account Num c opplicant's name and sign South Mobility Cellular Agree Account Num Cellular Agree Cellular Agre	ber ber crure ement.	Lunderstand that in the phone may be greater PAGING Pager Number	e event of a loss, un than the original p e may be discontir able only with Bells vice identified by U discontinued. CE Example charges and SERIAL NUMBERS	ued ot any time w outh Cellular Servi ne mobile number	Accentent of thy or C Castorer bibled S	
Credit with Balamce	derence and derenc	Contoct F DEVYER'S LICENSE OD (that I have positively (that I have positively check the signature one check and the signature one check and the signature one TEM NUMBER (Re- TEM NUMBER (Re- State one) Check /Cash Receip Net 30 PD, 4 MC O Visa, O AME Authors O Other; With O Other;	Phone Nur Picture L.D. identified the above d name on this Bell Soles he Soles he City of the City of	Account Num her Account Num count Nu	ber ber crure ement. A ber ber crure ement. A ber ber ber crure ement. A ber	I understand that in the phone may be greater PAGING Pager Number PIN Service BellSouth Paging Service is avail cancels the cellular set shall be automatically TOTAL MONTHLY SERVIL (Ducluding additional cancels and the automatically for the shall be automaticaly for the shall be automatically for the shall be automa	e event of a loss, hi them the original p emay be discontin- table only with Bells discontinued.	ued ot any time w outh Cellular Service te mobile number (toxes)	Cathere bible Cathere bible S Cathere	
Credit with Ball with Ball with Ball with Ball with	derence and derenc	Control Contro	Phone Nur Picture L.D. identified the abov A name on this Bell A name on this Bell Solis is a Solis is for the solid sol	Account Num nber Account Num c applicant's name and sign South Mobility Cellular Agree Account Num ber c applicant's name and sign South Mobility Cellular Agree Cellular A	ber ber crure ement. A ber ber crure ement. A ber ber ber crure ement. A ber	I understand that in the phone may be greater PAGING Pager Number	the event of a loss, the them the original p compares and the original p compares and the original p with Belly discontinued.	ued at any time w outh Cellukar Servi toxest ftoxest ftoxest color of Automo Number	Accentent of thy or Castores bibled S	
C Patie Se	derence of the second s	Controct F DEVYER'S LICENSE OD F DEVYER'S L	Phone Nur Picture L.D. identified the above d name on this Bell Scher Re Picture Print Nor Course Print Nor Picture Print Nor Picture Print Nor Picture Picture Picture Picture br>Picture Picture Picture br>Picture Pict	Account Num her Account Num count Num count Num account Num count	ber ber crure ement.	I understand that in the phone may be greater PAGING Pager Number	e event of a loss, hi them the original p emay be discontinued able only with BellS vice identified by 0 discontinued. Et minime charges and SERIAL NUMBERS SERIAL NUMBERS D 3 (2	ued at any time w outh Cellukar Service ne mobile number f toxes f tox	Accentent of thy or Castoner bibled Castoner bibled S Castoner bibled S Net UN S S S S S S S S S S S S S	IlSouth e cust
C Trode & Ariv This and Arive and Arive Ar	derence and derenc	Contoct F DEVYER'S LICENSE OD (but I have positively check the signature on check the signature on check for a signature on TEM NUMBER (Re 5 1 2 1 2 1 2 1	Phone Num Phone	Account Num account Num Account Num account Num account Num be opplicant's name and sign South Mobility Cellular Agree account Num be opplicant's name and sign South Mobility Cellular Agree be opplicant's signature account Num be opplicant's signature be opplicant's signature account Num be opplicant's signature collabel Director's Approval account Num be opplicant's many signature account Num account Num be opplicant's minist account Num account Num be opplicant's minist account Signature account Num	ber ber cture ement.	I understand that in the phone may be greater PAGING Pager Number	e event of a loss, hi them the original p e may be discontir able only with Bells on the energies and discontinued. CE iritime charges and SERIAL NUMBERS	ued at any time w outh cellular service to mobile number troost	Accentent of thy of Castone bible	Il Souti
Crede Le Ariv This and Arive of the Arive of	derence of the second s	Contoct F DEVYER'S LICENSE OD F DEVYER'S LICENSE OD that I have positively that I have positively that I have signature and that is a subject F DEVYER'S LICENSE OD COCHECTORS Receipt TEM NUMBER (Re COCHEC/Cosh Receipt Net 30 PO. I Auth COCHEC/Cosh Receipt Receipt Astign Auth COCHEC/Cosh Receipt The 30 PO. I Auth COCHEC/Cosh Receipt State of the subject Auth COCHEC/Cosh Receipt The 30 PO. I Auth COCHEC/Cosh Receipt State of the subject Auth COCHEC/Cosh Receipt The 30 PO. I Auth COCHEC/Cosh Receipt The 30 PO. I Auth COCHEC/Cosh Receipt Auth COCHEC/Cosh Receipt Auth COCHEC/Cosh Receipt Auth COCHEC/Cosh Receipt Auth Auth COCHEC/Cosh Receipt Auth Auth COCHEC/Cosh Receipt Auth Auth COCHEC/Cosh Receipt Auth Auth COCHEC/Cosh Receipt Auth Auth COCHEC/Cosh Receipt Auth Auth COCHEC/Cosh Receipt Auth Auth State of the subject State of the s	Phone Nur Picture Lo. Identified the abov A name on this Bell A name on this Bell Solis He Solis He Comparison of the Solis A name on this Bell A name on the this B name	Account Num her Account Num her Account Num complicant's name and sign South Mobility Cellular Agree high and the second	ber ber crure crur	Lunderstand that in the phone may be greater PAGING Pager Number	e event of a loss, un them the original p e mary be discontin- able only with Bells circle infine charges and circle infin	to calmoge rep trice. ued of any time w outh Cellular Service fromst,	Accentent of thy or Castore bible S	
C Paris Rame of Rame of Rame of Dates Rame of Dates Rame of Dates Rame of Rame of Dates Rame of Rame of Ra	derence of the second s	Contoct F DEVYER'S LICENSE OD F DEVYER'S LI	Phone Nur Picture L.D. identified the above d name on this Bell Solers Re Solers Re Picture Pint Nor Comparison Compar	Account Num her Account Num her Account Num complicant's name and sign South Mobility Cellular Agree to the following month, sub rements and approval heigi for the following month, sub rements and approval heigi for the following month, sub rements and approval heigi for the following month, sub rements and approval heigi for the following month, sub rements and approval heigi for the following month, sub rements and approval heigi	ber ber crure ement.	I understand that in the phone may be greater PAGING Pager Number	e event of a loss, hi them the original p emay be discontinued able only with BellS vice identified by the discontinued. Et minime charges and SERIAL NUMBERS	to calmoge rep ince.	Accentent of my or Castore bible S	Il Sout I e cust g serv
Inde Es Inde S IndeS	derence and derenc	Contoct PREVERS LICENSE OD PREVERS LICENSE OD that I have positively that I have positively that I have positively that I have positively that I have positively TEM NUMBER (Re- State of the second	Phone Nur Picture L.D. identified the above d name on this Bell Soles in Soles in Comparison of the second Soles in Comparison of the second sole in the seco	Account Num her Account Num her Account Num complicant's name and sign South Mobility Cellular Agree to the sign of the sign o	ber ber cture ement. A A E A A A E A A A E A A A E A A A A E A A A A A A A A A A A A A	Lunderstand that in the phone may be greater PAGING Pager Number	e event of a loss, the them the original p e may be discontin able only with Bells on the original p discontinued. CE intime charges and SERIAL NUMBERS	ued at any time w uut of any time w outh Cellular Servi toxes!	Accentent of thy of Castone bible	
Inde & Ariv This and Ariv This and Ariv This and Ariv Date a The and Date a The and Date a An Date a An Date a An Date a An An Date a An	derence of the second s	Control Contro	Phone Nur Phone Nur Phone Nur Phone Nur Phone Nur Phone Nur Selis He Selis He Phone Nur Selis He Phone Nur Phone Nur Selis He Phone Nur Phone Self Phone Nur Phone Nur	Account Num her Account Num her Account Num her Account Num e applicant's name and sign South Mobility Cellular Agree high and the sign and sign South Mobility Cellular Agree bits and approved and sign approved by Proved and Source S	ber ber crure ement.	I understand that in the phone may be greater PAGING Pager Number	e event of a loss, uh them the original p e may be discontinued, of the second	to calmoge rep ued of any time w outh Cellular Servi to mobile number f toxes/ f toxes/ f color of Automo & Color of Automo Number the kondline netw but not limited to but not limited to	Accentent of thy or Castore bible S	IliSouti e custo e cus
Charly This and Rame of Dates UN TY UN TY UN TY UN TY UN TY Case Second	derence and a set of the set of t	Contoct F DEVYER'S LICENSE OD F DEVYER'S LI	Phone Num Phone	Account Num her Account Num her Account Num her Account Num e opplicant's name and sign South Mobility Cellular Agree the account Num ber DESCRIPTION Control of the Signature bergenerity and opproval. Beige Director's Approval beige proses CUSIC	ber ber crure ement. A Crure ement. A E A A	Iunderstand that in the phone may be greater PAGING Pager Number	e event of a loss, uh them the original p e mary be discontinued, table only with Bells intrime charges and intrime charges and SERIAL NUMBERS SERIAL NUMBERS SERIAL NUMBERS Date of the series of the	ued ot any time w outh Cellular Service is mobile number ftoxes) ftoxe	Caternet a high Caternet bible S	
Trade & Ariv This and Ariv Reme of Dotte ar Dotte ar Dott	derence and a set of the set of t	Control F DEVYER'S LICENSE DO I DEVYER'S LICENSE DO I that I have positively i that I have p	Phone Nur Phone Nur Picture L.D. identified the above d name on this Bell Solis is Solis is Picture Content Solis is Picture Content Picture Content	Account Num her Account Num her Account Num her Account Num complicant's name and sign South Mobility Cellular Agree her DESCRIPTION Content's Market Cont	ber ber drure ement. A A C C C C C C C C C C C C C	Iunderstand that in the phone may be greater PAGING Pager Number	e event of a loss, hit them the original p emay be discontin able only with Bells discontinued. CE intime charges and SERIAL NUMBERS SERIAL NUMBERS SERIAL NUMBERS Unlock Code Unlock Code Unlock Code Deriod. Unlock Code Unlock Code	to common the second se	Accement of my or Castore bible S	IlSouth the cust the

:

. Iw

.

	•					II MO	bile#(1					
	Cr	edit Refero ESN Chan	ence Nur ge ON	nber o Install O C	tion	2) Mo	bile # (1			(#	#	*.*. *. :
•		6 . 03	005	050	Mobile Numb	er 3) Mo	bile # ($\times e_{1}$	TES.N.TC	we d		· · ·
			30J		Date	4) Mo	bile # (E.S.N			
		CONSUM		ete botes 1 o 30	17	(7/57	Ven k	Xes 1, 2, 0°3.	1			ITH N	Achilit
-		Market	Jun.	Agent C	ode Sales Rep.	<u> </u>	Existing custom	NO					
		O CON	SUMER - F	nes en el artanta Desenador dese	יאלוג ארבאקיב לב און דע בחסניסו לשי הרצוים דע	()	- 4.3 1 - 47	ter an Maria and Art	SERVICE PLAN SI	LECTED N. 14	il.ne	<u>0 K</u>	s_/
		μ	Jest	een Y	G DA	S		ann a' suidh <mark>19</mark> ann ann ann a 19	CUSTOM CALLIN	G FEATURES		5	
		Responsil	He Party Fu	Name A	111-100	fforst Name	17.5		Call Forwar	ding Transfer	and an argente Standersky Charles ar stander		nillerika aktor 1946 - Al-Sika 2016 - Al-Sika
		Billing Ad	Idress/Post	Office Box	mar KG	e-1-47	362-1	312	Any Two Fe	conterencing intures eatures	2013) 2014 - 2015 - 2015 - 2015 2016 - 2016 - 2016 - 2016 - 2016 - 2016 - 2016 - 2016 - 2016 - 2016 - 2016 - 2016 - 20		станіяні і і і і стані і і і і і і і і і і і і і і і і і і
		City .	19923871 2.557201	10 019 11 153 167 40 (- 1 1 7, 100 167 4 17 4 17 4 17 4 17 4 17 4 17 4 17	Store Para	VC 2. Up Flour	<u>685 BI</u>	0	. OTHER D Mobile Mer	no ve	Everalises	ra - 154 gar 140 S	en 1991 - Chi Geographic State The Age
	Z	Service File	- 2024 CER	lenninder der so	30 174004 0145 /	1948-199 11" -	ANNUAL INCOME	et statistic	Descripti Pager II	on		14 - 15 1978) 2010 - 12 - 13 1990 14 19 19 19 1990	Rodu Brance Rata na San Rodu Bana Ang
		Social Se	curity Num	ber L so apposito	O TA NALAW IC D		\$35,000 - \$50,000 -	\$49,999 \$74,999	Descripti D Nights & We	on ekends		\$	
		Date of B	irth OPSON	and the to the second of the s	Male Fi		\$75,000 \$90,000 - ' \$106,000 -	\$89,999 \$105,999 \$114,999	C Mobile To-N C Emergency D Detailed Bil	lobile Road Service*		\$ \$	
		Driver's L	icense Num	iber	State	<u> </u>	\$115,000 & ABOVE		Ci Toll Restrict Ci Incoming C	ed alls Only	. ,	\$	
	1502	Up to	o 48-hour p	rocessing time	Pure Pure	chase Order Num	ber		C) Miscellane	aus Only ous ous		\$;	s
		s 2,30 % Company	y Name and	e - Levenner Mal - Evenner	North President C	Exempt Number			LONG DISTANCE	ong Distance		a that ta	*****
		Supervis	or's Name	· ·	Sup	ervisor's Phone No	· · · · · · · · · · · · · · · · · · ·	Yrs. In Buringer	🗘 Other				
		Does stre	et address anch or sul	differ from billing	address? Yes	No No			CELLULAR PHON (Not available i	te INSURANCE n all locations)			\$
		Type of h	vusiness: ;;	Corporation	Sole Proprieto	rship or Partnersh	ip 🗆 Other		(initial one)	A. Pri	cept Dec mium/Month I	line Deductible	
		Bank Nor	me in the	Account Of	icer Pho	ne Number	Account Nur	nber	C Cellular Ph If you subscrib	one e to cellular phone	\$ 2.95 insurance and/or	\$ 35 emergency ro	ad service, you
		Trade Re	ference	Contact	MALEA CE Pho	ne Number	Account Nur	nber	acknowledge the terms and c	at you have received to a solution of the second seco	red and read the bi hich same is offere	rochure for sor d outlined ther	ne and understan ein.
1.1		? Trade Re	ference	nii - Contact: 31	ant and which Pho	ne Number 101-2	Account Nur	nber	I understand th phone may be	at in the event of a greater than the o	ioss, theft or dama iginal price.	ige, replaceme	nt of my cellulor mer hittind
•		Trinde Re			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
			terence	Contact	rtora mais Pho	ne Number	Account Nur	nber	PAGING	·. ·			\$
		• ATTA	ACH COPY C	OF DRIVER'S LICEN	SE OR PICTURE LL	ne Number	Account Nur	nber Atture	PAGING Pager Number PIN	· · · ·			
·.	NOIX	ATT/ This and	ACH COPY C is to certify that it mat	Contact F DRIVER'S LICEN that I have positiched the signature	SE OR PICTURE LL ively identified th e and name on t	ne Number 9. e above applican his BellSouth Mob	Account Nur t's name and sta ility Celhildr Agn	nber nuture eement.	PAGING Pager Number PIN Service BellSouth Pagin	g Service may be	discontinued at am	y time with no	\$ penalty, BellSouth
5. - -	TIEL ATION	ATT This and	ACH COPY C is to certify that it mat	Contact	SE OR PICTURE LL ively identified th ie and name on t	ne Number D. e above applican his BellSouth Mob	Account Nur I's name and sta ility Celhildr Agn	nber nature eement.	PAGING Pager Number PIN Service BellSouth Pagin Paging Service cancels the cel shall be autom	g Service may be is available only v ular service identi atically discontinu	discontinued at am nith BellSouth Cellul fied by the mobile r ed.	y time with no for Service. In t	\$ penalty, BellSouth he event the custo the paging servic
 		ATT/ This and Name of	ACH COPY C is to certify that it man Company	DF DRIVER'S LICEN that I have positiched the signature	SE OR PICTURE LL ively identified th e and name on t and name of t	ne Number e above applican his BellSouth Mob	Account Nur t's name and sig ility Cellular Agn res Signature	nber noture cement.	PAGING Pager Number PIN Service BellSouth Pagin Paging Service cancels the cel shall be autom	g Service may be is available only v ular service identi atically discontinu Y SERVICE	discontinued at any rith BellSouth Cellui fied by the mobile r ed.	y time with no lar Service. In ti number above,	S penalty, BellSouth he event the custo the paging servic S
		ATT/ This and ATT/ Name of Date	ACH COPY C is to certify that it man	F DRIVER'S LICEN y baily that have positi ched the signatu	SE OR PICTURE LL ively identified th e and name on I e and nam	ne Number e above applican his BellSouth Mob seles Representation vint Name	Account Nur t's name and sta ality Cellukt Agn ve's Signature	nber neture eement.	PAGING Pager Number PIN Service BellSouth Pagin Paging Service cancels the cel shall be autom TOTAL MONTHI (Excluding add	g Service may be is available only ular service identi atically discontinu Y SERVICE itional airtime cho	liscontinued at am rith BellSouth Cellul lised by the mobile r ed. rges and taxes)	y time with no lar Service. In t number above,	s penalty, bellSouth he event the custo the paging servic s
*		ATA This and ATA This and ATA Dote Dote UN TY	ACH COPY C is to certify that it mat B Compose Compose Compose Compose Compose Compose Compose Compose Compose Compose Compose Compose Compose C	DF DRIVER'S LICEN that I have positioned the signature and the signature of the signature o	SE OR PICTURE LI vely identified th e and name on t office agent er sources ER (Required)	ne Number	Account Nur I's name and sta ility Cellular Agn ve's Signature DESCRIPTION	nber noture reement.	PAGING Pager Number PIN Service BellSouth Pagin Paging Service cancels the cel shall be autom TOTAL MONTHI (Excluding add	g Service may be is available only y ular service identii atically discontinu Y SERVICE itional airtime cha SERTAL NU	discontinued at am th BellSouth Cellul fied by the mobile r ed rges and taxes) MBIRS	y time with no lar Service. In t number above.	s penalty, BellSouth eevent the custo the paging servic s
· · · · · · · · · · · · · · · · · · ·		ATLA This mathematical and a second se	ACH COPY C is to certify that It mat B Company Company	DF DRIVER'S LICEN V that I have positive the definition of the de	stings said Pro	ne Number	Account Nur It's name and sta dity Celhidr Agn ve's Signature CCCC DESCRIPTION	nber Asture eement.	PAGING Pager Number PIN Service BellSouth Paging Paging Service cancels the cel shall be autom TOTAL MONTHI (Excluding add MSH ESN MSN	g Service may be is available only v ular service identi atically discontinu Y SERVICE itional airtime cho SERIAL NU	discontinued at am nth BellSouth Cellul lied by the mobile r ed. rges and taxes) MBIRS	y time with no result of the second s	s penalty, BellSouth e event the custo the paging servic s NET UNIT PRICE s
		ATT/ This and a start of the Name of Date	ACH COPY C is to certify that it man B Company Company	DF DRIVER'S LICEN that I have posit ched the signature of	SE OR PICTURE LI ively identified th e and name of t e and name of t e and name of t e and the second second e and the second second e and the second second second e and the second second second second e and the second	ne Number	Account Nur I's name and sto ility Cellular Agn ves Signature CESCRIPTION	nber noture eement.	PAGING Pager Number PIN Service BellSouth Pagin Paging Service cancels the cel shall be autom TOTAL MONTHI (Excluding add MSN ESN SN ESN SN	g Service may be is available only ular service identi atically discontinu Y SERVICE itional airtime cho SERIAL NU	liscontinued at am rith BellSouth Celtul ied by the mobile r ed. nges and taxes)	y tine with no for service in to for service in to number above.	s penalty, BellSouth the event the custo the paging servic S S S
		ATZ	ACH COPY C is to certify that it may Compare C	Contract DF DRIVER'S LICEN V that have posit ched the signatur DI State State I State State State I State State State I State State State I State State State State I State State State State State State I State State State State State State State I State Stat	SE OR PICTURE LI vely identified th e and name of t e and the second e and the	ne Number	Account Nu It's name and sto ality Cellular Agn refs Signature DESCRIPTION	nber Anture eement.	PAGING Pager Number PIN Service BellSouth Pagin Paging Service cancels the cel shall be autom TOTAL MONTHI (Excluding add MSIN ESN MSN ESN MSN ESN MSN	g Service may be is available only y ular service identi atically discontinu Y SERVICE itional airtime cha SERIAL NU	liscontinued at am rith BellSouth Cellul lied by the mobile r ed. nges and taxes)	y time with no y time with no number above	S penalty, BellSouth eevent the custo the paging servic S NET UNIT PRICE S
		ATT/ This and Name of Date	ACH COPY C is to certify that It mat Connors C	FORVER'S LICEN that there position that there position that there are position to the signature of the signa	SE (Required)	ne Number		nber meture eement.	PAGING Pager Number PIN Service BellSouth Pagin Paging Service cancels the cel shall be autom TOTAL MONTHI (Excluding add MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN	g Service may be is available only v ular service identi atically discontinu Y SERVICE itional airtime cho SERIAL NU	discontinued of arm nih BellSouth Celhul lied by the mobile r ed. rges and taxes)	y tine with no ar Service In I number above	s penalty, BellSouth he event the custo the paging servic s s s s s s s s s s s s s s s s s s s
			ACH COPY C is to certify that it may compare C	Contract DF DRIVER'S LICEN that have positive that have positive Call of the signature TEM NUMB ITEM NUMB ITEM NUMB	SE OR PICTURE LI vely identified th e and name on t office of the second second second end of the second se	ne Number	ts name and sta dity Cellular Agr ves Signature DESCRIPTION	nber Riture eement. 	PAGING Pager Number PIN Service BellSouth Pagin Paging Service cancels the cel shall be autom TOTAL MONTHI (Excluding add MSN ESN MSN ESN MSN ESN MSN ESN Branch	g Service may be is available only y ular service identi atically discontinu Y SERVICE itional airtime cha SERIAL NU	discontinued at am th BellSouth Cellul fied by the mobile r ed nges and fazes)	y time with no y time with no number above	S Penalty, BellSouth the event the custo the paging servic S S S S S S S S S S S S S
			ACH COPY C is to certify that It mat Composite	Contract DF DRIVER'S LICEN that I have positive that i have positive Carlot in the signature Carlot i signature Carlot i signature TEM NUMB TEM NUMB TEM NUMB TEM NUMB Check/Cash er Nt 30 P.O. J MC O Viso" O	SE OR PICTURE LI ively identified th e and name of t e and name of t e and name of t e and the second second e and the second second second second e and the second s	ne Number	Account Nur t's name and sta dity Cellular Agn ves Signature DESCRIPTION	nber Reture eement. Scies/Install Inventory Bro Card B Scies/Install	PAGING Pager Number PIN Service BellSouth Pagin Paging Service BellSouth Pagin Paging Service Interest and the entom TOTAL MONTHH (Excluding add MSN ESN ESN Branch	g Service may be is available only v ular service identi atically discontinu Y SERVICE itional airtime cho SERIAL NU	discontinued at am th BellSouth cellul lied by the mobile r ed. Arges and traxes) MBERS	y time with no response of the second	S Periodity, BellSouth be event the custo the paging servic S S S S S S S S S S S S S S S S S S S
		ATT/ This and and	ACH COPY C is to certify that it mat Compare C	Contract DF DRIVER'S LICEN that I have position that is signature Texas and the signature T	SE OR PICTURE LI ively identified th e and name on t e and name of t e and nam	ne Number	Account Nu t's name and sta ility Cellular Agr ve's Signature DESCRIPTION	nber Roture eement.	PAGING Pager Number PIN Service BellSouth Pagin Paging Service cancels the cel shall be autom TOTAL MONTHI (Excluding add MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN Branch ESN Branch ESN Branch ESN Branch	g Service may be is available only y ular service identi atically discontinu Y SERVICE itional airtime cho SERIAL NU	discontinued at am th BellSouth Cellul fied by the mobile r ed nges and faxes) MBERS	y time with no y time with no are service. In the number above, a service in the service in the	S Penalty, BellSouth e event the custo the paging servic S S S S S S S S S S S S S S S S S S S
		ATI/ This and ATI/ Th	ACH COPY C is to certify that It mat Compare C	Contract DF DRIVER'S LICEN V that have positive that have positive Check He signature TEM NUMB ITEM NUMB ITEM NUMB Check/Cash r Net 30 P.O. 9 MC Q Viso ¹ Q	SE OR PICTURE L1 wely identified th e and name of t e and name of t e and name of t e and the second	ne Number	Account Nu I's name and sto ality Cellular Agn res Signature DESCRIPTION DESCRIPTION	nber Acture eement. Sales/Install Inventory Bra Card # Security Cod # Applicable J ScileDuLt	PAGING Pager Number PIN Service BellSouth Paging Service cancels the cel shall be autom TOTAL MONTHI (Excluding add MSII ESN MSIN ESN MSN ESN MSN ESN MSN ESN MSN ESN Branch ESN Branch DINSTALLATION	g Service may be is available only v ular service identi atically discontinu Y SERVICE Itional airtime che SERIAL NU	discontinued at am ith BellSouth Cellul ied by the mobile r ed. mges and (taxes) MBERS	y time with no array to a second seco	S Pendty, BellSouth event the custo the paging servic S S S S NET UNIT PRICE S S S Nen-Tamble Subtod S Tamble Subtod S Down Parameti
		ATT/ This and ATT/ This and Define Defi	ACH COPY C is to certify that it mat Conport C	Contract F DRIVER'S LICEN F DRIVER'S LICEN F DRIVER'S LICEN F DRIVER'S LICEN F THAT INVAS F DRIVER'S LICEN F THAT INVAS F DRIVER'S LICEN F DRIVER'	SE OR PICTURE LI ively identified th e and name of t e and name of t e and name of t e and the second second e and the second second second e and the second second second second e and the second sec	ne Number	Account Nu I's name and sto ility Cellular Agn ve's Signature CESCRIPTION DESCRIPTION CONTRACTOR Processing	nber reture eement. Seles/Install Inventory Br Card # Security Cod # Application Scientify Cod # Application Market Scientify Cod # Application Scientify Cod # Application Scientify Cod # Application Scientify Cod # Application # Application	PAGING Pager Number PIN Service BellSouth Pagin Paging Service Cancels the cel shall be autom TOTAL MONTHI (Excluding add MSN ESN DINSTALLATION	g Service may be is available only v ular service identi atically discontinu Y SERVICE itional airtime cho SERIAL NU SERIAL NU Unlock C	discontinued at an ith BeltSouth Cellul ied by the mobile r arges and taxes) MBJES MBJES 	y tine with no far Service In 1 number above.	S Penalty, BellSouth event the custo the paging servic S S S S S S S S S S S S S S S Combe Subtod S Tornble Subtod S Tornble Subtod C S Corder Total S Down Payment S Badroco Dee
		ATI/ This and ATI/ This	ACH COPY C is to certify that It mat Compare C	Contract DF DRIVER'S LICEN V had have posit that have posit DF DRIVER'S LICEN V had have posit DF DRIVER'S LICEN TEM NUMB TEM NUMB TEM NUMB TEM NUMB CONTRACTOR CO	SE OR PICTURE L1 wely identified th e and name of t e and name of t e and name of t e and the second second e and the second second second e and the second second second second second second second second second second second second second second second second second	ne Number	Account Nu I's name and sto aity Cellular Agn res Signature DESCRIPTION DESCRIPTION COC rector's Approva nuthy Payments of atoms Priced	nber Asture eement. Scles/Install Inventory Br Card # Security Cod # Applicable J ScileDult Date	PAGING Pager Number PIN Service BellSouth Paging Service cancels the cel shall be autom TOTAL MONTHI (Excluding add MSII ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN Branch ESN MSN ESN D INSTALLATION	g Service may be is available only y ular service identi atically discontinu Y SERVICE itional airtime cha SERIAL NU SERIAL NU Unlock C Unlock C	discontinued at am ith BellSouth Cellul lied by the mobile r ed. mges and (taxes) MBERS MBERS e, Modei & Color of nse Plate Number	y time with no array to the second seco	S S NET UNIT PRICE S S S S S S S S S S S S S Concer Total Concer To
		ATT/ This and Date Date Date Date Date Date Date Date	ACH COPY C is to certify that It mat Conport C	Contract DF DRIVER'S LICEN that I have posit ched the signatur Contract of the signature Contract of the sison of the signature Contract of the sison of the signa	SE OR PICTURE LI ively identified th e and name of t e investigation of the e and name of the e and name of the e investigation of the e investigation of the e investigation of the e investigation of the e investigation of the e investigation of the e investigation of the e	ne Number	Account Nu I's name and sto ility Cellular Agn ve's Signature COSC IIII DESCRIPTION DESCRIPTION COSC IIIII Provide Approva name patients assume traited assume traited coving month, so	nber Reture eement. Scies/Install Inventory Br Card # Security Cod # Application Date Comer Acknown Date Comer Acknown Date	PAGING Pager Number PIN Service BellSouth Pagin Paging Service BellSouth Pagin Paging Service Cancels the cel shall be autom TOTAL MONTHI (Excluding add MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN DINSTALLATION LEDGEMENTS LEGGEMENTS LEGGEMENTS	g Service may be is available only v ular service identi atically discontinu Y SERVICE itional airtime cho SERIAL NU Unlock C Unlock C	discontinued at an inh BeltSouth Cellul ied by the mobile r ed. mges and taxes) MBERS 	y time with no far Service II of aumber above.	S Penalty, BellSouth e event the custo the paging servic S S S S S S S S S S S S S S S Combe Subtod S Tornble Subtod S S S S S S S S S S S S S S S S S S S
		ATZ This ATZ This and ATZ This and ATZ This and Date Date	ACH COPY C is to certify that it mat by a compare Comp	DERIVER'S LICEN DF DRIVER'S LICEN that have positive that have	SE OR PICTURE LI vely identified th e and name on t e and name of t e and name	ne Number	Account Nur t's name and sta ility Cellular Agn ve's Signature DESCRIPTION DESCRIPTION PECTOR'S Approva nuthy Payments of stomet Initiati rated for the num lowing month, sel stomet Initiati	nber Anture eement. Soles/Install Inventory Br Card Sales/Install Inventory Br Card Sales/Install Sal	PAGING Pager Number PIN Service BellSouth Paging Service cancels the cell shall be autom TOTAL MONTHI (Excluding add MSIN ESN MSN ESN ESN MSN ESN ESN ESN ESN ESN ESN ESN ESN ESN E	g Service may be is available only y ular service identi atically discontinu Y SERVICE itional airtime cha SERIAL NU SERIAL NU Unlock C Unlock C Unlock C D AM Mab D PM Lice billing period	discontinued at am the BLSouth Cellul fied by the mobile r ed. mges and fazes) MBERS MBERS e, Modei & Color of se Plate Number	y time with no array service. In a number above, a service in the service in the	S S NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
		ATLA	ACH COPY C is to certify that It mat by the third it mat compared Compared	Contract DF DRIVER'S LICEN that I have posit ched the signatur Contract States Contract States Contrac	SE OR PICTURE L1 ively identified th e and name of t e and the and the e and the and the and the e and the and the e and the and the e and the and the and the and the e and the and the and the and the e and the and the and the and the and the e and the and the and the and the and the and the e and the and the and the and the and the and the e and the and the and the and the and the and the and the e and the and t	ne Number	Account Nur I's name and sto ility Cellular Agn ve's Signature DESCRIPTION DESCRIPTION COC Proteins Approva name training rated for the nium rated for the nium	nber noture eement. Scies/install Inventory Br Card I Security Cod #Accode Security Security Security Security Security Security Security Security Security Secur	PAGING Pager Number PIN Service BellSouth Pagin Service BellSouth Pagin Service Interest and the cell shall be autom TOTAL MONTHI (Excluding add MSN ESN DINSTALLATION Is EDGEMENTS Interest add the first Vill be billed one mo ad Pricing' does not 1 From the cellular pho	g Service may be is available only v ular service identi atically discontinu Y SERVICE Bittonal airtime che SERIAL NU Unlock C Unlock C D AM Mai PM Lice billing period. this agreem this agreem this agreem this agreem this agreem this agreem this agreem	e, Modei & Color of se Pate Number d. d. d. d. mges and taxes) MBERS de e. MOdei & Color of se Plate Number d. d. d. d. d. d. d. d. d. d.	y time with no far Service In In number above.	S Penalty, BellSouth event the custo the paging servic S S S S S S S S S S S S S S S S S Combine Subtord S Tornble Subtord S Coder Reid S Down Reyment S Refronce Data S Refro
		AT/ This AT/	ACH COPY C is to certify that it mat by a certify that it mat Compared Comp	DE DRIVER'S LICEN DF DRIVER'S LICEN that I have positive ched the signature Text of the	SE OR PICTURE L1 ively identified th e and name on t e and name of t e and nam	ne Number	Account Nu ts name and sta ility Cellular Agn ves Signature DESCRIPTION DESCRIPTION DESCRIPTION COST Prector's Approva nihly Payments of stamet initiat rated for the niun lowing month, si rated for the niun lowing month, si rate nia? vary; month in which i rearly cancellati rated and with the off	nber Anture eement. Sales/Install Inventory Br Content Security Cod B Applicated I Date Content ACKNOWL Different Security Cod B Applicated I Date Content Security Cod B Applicated I Date Content Security Cod Content Security Cod B Applicated I Date Content Security Cod B Applicated I Date Content Security Cod Content Security Cod Cod Content Security Cod Cod Cod Cod Cod Cod Cod Cod	PAGING Pager Number PIN Service BellSouth Paging Service Cancels the cell shall be autom TOTAL MONTHI (Excluding add MSII ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN ESN ESN ESN ESN ESN ESN ESN ESN E	g Service may be is available only y ular service identi atically discontinu Y SERVICE itional airtime cha SERIAL NU SERIAL NU Unlock C Unlock C Unlock C D AM Mah P M Lice billing period the nucleon scheme stomer with credu	discontinued at am the BLISouth Cellul fied by the mobile r ed. mges and faces) MBERS MBERS e. Modei & Color of see Plate Number See Plate Number	y time with no array service. In a service i	S S NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
			ACH COPY C is to certify that It mat by the third it mat Compared	Contract DF DRIVER'S LICEN Vhort I have posit ched the signatur Contract of the signature Contract of the	SE OR PICTURE L1 ively identified th e and name of t e and the and the and e and the and the and e and the and the and the and the and the and the and the and the and the and the and the and the and the and the and the and the and the and the and the and	ne Number	Account Nur t's name and sto ility Cellular Agn ve's Signature DESCRIPTION DESCRIPTION COST rector's Approva nuthy Payments of assume t bitsts assume t bitsts assume t bitsts rector's very month in which in early cancelladi and part the Cus moving month, su d approved. Intell and part the Cus moving and very month in which in early cancelladi and part the Cus moved and early the Cus	nber noture eement. Sales/Install Inventory Br Card I Security Cod #Accode Security Cod #Accode	PAGING Pager Number PIN Service BellSouth Pagin Service BellSouth Pagin Service Interest and the cellshall be autom Interest and the components a pplicable) and agree	g Service may be is available only v ular service identi atically discontinu Y SERVICE itional airtime che SERIAL NU Unlock C Unlock C Unlock C D AM Mai PM Lice billing period. This agreen this agreen this agreen this agreen the pricing plan. ts to same.	e, Modei & Color of se Plate Number e, Modei & Color of se Plate Number it through the kandle it through the	y time with no far Service II of aumber above.	S Penalty, BellSouth e event the custo the paging servic S S S S S S S S S S S S S
			ACH COPY C is to certify that it mat by a comparison Co	Contract	SE OR PICTURE L1 ively identified th e and name on t e and name of t e and nam	ne Number	Account Nur t's name and sta ility Cellular Agn ve's Signature DESCRIPTION DESCRIPTION DESCRIPTION CONTRACTOR DESCRIPTION CONTRACTOR CONTRAC	nber Anture eement. Sales/Install Inventory Br Contention Br	PAGING Pager Number PIN Service BellSouth Pagin Paging Service cancels the cell shall be autom TOTAL MONTHI (Excluding add MSII ESN MSN ESN MSN ESN MSN ESN MSN ESN Branch ESN Branch ESN D INSTALLATION It ECELMENTS rvice during the first rvice during th	g Service may be is available only y ular service identi atically discontinu Y SERVICE itional airtime cha SERIAL NU SERIAL NU Unlock C Unlock C Unlock C Unlock C D M D M Lice billing period the pricing plan. stomer with great the pricing plan.	discontinued at am the BLSouth Cellul ind by the mobile r ed. rges and taxes) MBERS MBERS e, Modei & Color of se Plate Number Se Plate	y time with no array service in to aumber above.	S NET UNIT PRICE S S S S S S S S S S S S S S S S S S S
		ACT/ This and the second	ACH COPY C is to certify that It mat by the the the the comparison of the comparison	Contract	SE OR PICTURE L1 ively identified th e and name of I e and the and the e and the and the and the and the e and the and the and the and the and the and the and the e and the and	ne Number	Account Nur is name and sto ility Cellular Agn ves Signature DESCRIPTION DESCRIPTION DESCRIPTION COC Proteinal of the num rector's Approva. Include the num rated for the num rector's Approval. Include the num rated for the num rated for the num rector's Approval. The num rate nor yvery month in which rector yvery month in which	nber noture eement. Sales/Install Inventory Bra Card I Security Cod B'Aptionski Sciles/Install Inventory Bra Card I Security Cod B'Aptionski Sciles/Install Inventory Bra Card I Security Cod B'Aptionski Sciles/Install Date TomEr AckNOWL Date Tom Security Cod B'Aptionski Card I Sciles/Install Inventory Bra Card I Sciles/Install Date Tom Security Cod B'Aptionski Card I Sciles/Install Inventory Bra Sciles/Install Sciles/Install Inventory Bra Sciles/Install Inventory Bra Sciles/Inventory Bra	PAGING Pager Number PIN Service BellSouth Paging Service BellSouth Paging Service cancels the cel shall be autom TOTAL MONTHI (Excluding add MSIN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN IBranch SSN IBranch IBRA	g Service may be is available only v ular service identi atically discontinu Y SERVICE itional airtime che SERIAL NU Unlock C Unlock C Unlock C D AM Mai P M Lice billing period P M Lice storner with credi one(s) is terminate storner with credi of the pricing plan, is to same.	e, Modei & Color of se Plate Number e, Modei & Color of se Plate Number it through the kniftl burenus: burenus	y time with no far Service In In number above.	S Penalty, BellSouth e event the custo the paging servic S S S S S S S S S S S S S

.

 BELLSOUTH
 bility: 2wding9wbe Greekeese





수는 11 16/12313(3) 313 514 514 514 514 514 514 514 514 514 514	Branch	аналанан алартан алартан 1993 - Алартан Алартан (1993) 1993 - Алартан Алартан (1993) 1993 - Алартан Алартан (1993)	ILE NUMBER (1997)
	GINAL ORDER		
CUSTOMER NUMBER	SHIP TO	CUSTOMER)	NUMBER 1231
USTOMER NAME	CUSTOMER NAME	S LIMATADAN (A REALTAN) S AND ADREAS 1941, DERENT	18 231794-140 + 17792 (). 36931-16933+ 19849)263+
TTENTON MORE REPORTING IN ORAFI NO OSCANDION ADMIDINTI DO VIDENCI DA VID	ATTENTION, W June P	e por on he centre contra 1998 - Maria Distanti di 1998 - Maria Distanti	nerasiana ar sarang 1980-1995-1914 (Bhilter
DDRESS UMTATIONS A CONTROL OF CALL & BOUT TO ACCOUNT AND A CALL AND A	ADDRESS	CHURCH WARRANTS AND ANALOS FOR THE STATISTICS	ANGAR FOR LIA CAT YAL SACELESCERA AMONGS
nty (stoth zupa) (and i na rut thing sta and i novis di sui and the sui and statistical and and statistical su Internetino par thispall de name dans a ratened stream and one del sui and sui sui sui sui sui sui sui sui sui	CITY, STATE, ZIP		er i miny na in anway. Ni Iritan ang ing ing ing ing ing ing ing ing ing i
vork priorie (caracter) as a standa star a sin frome provent su 200 yr grandlin giff yfs 10 232003 Middeus nu sama Gole for a 2880 ac 1875 fra caracter (caracter) su 1367 ac 16 Standa Star Breeding yr ad star star star a sin sama star star st	WORK PHONE	HOME PHONE	ICK XW, MARKALJAKADAH JR 105811, PALATOART
VINNER NAME AND	All tax exempt sales re to Customer Order.	quire exemption certi	ficate to be attached
SPECIAL PROGRAM	RARE GLUE DESTRICTION AND ADDRESS	TANIMA ANA MANAGANA	130431381081-11011405 KM30
וי דער לעבוד איז	a Sarri Galandia Charles A Sarri Romano Sud di Mary Ing	1918 RU RUUE LANDAR A	1.2014 13 10 18 12 14 7 15
OT A STATE EDGEEDATION OF A STATE AND A STATE AND ANY	1 LINN HARAS BEAN MI AM	NERVINI	CHIPEXTENDED
	MSN 200 No Covert to Meson Provi	THE ALL REPORTED AND A CONTRACT OF A CONTRAC	A A AND AN A AND A
	IESN I KING MARIN	nson ZenZeJaio	US ISSUEDO UPDO 10 LSQ Danual S and write Foulanministra milit
The source of the second state of the second state of the second second second states and second states of the second secon	MSN 2002 Formersd monthly is	sentrative to white their have the	anitati Deditari Azera anta di . Anitati Deditari Azera Manta
1 - 21 au antiliae inserie por a Cock to inserie vi accente (a con les vi or) O core inserie autocore so	MSN because restanting from the	त्र अन्यत्र विश्व विश्व विश्व संवयन्त्र विश्व मुख्यत् तः अन्यत्र विश्व विश्व विश्व विश्व युवायत्वर्ग	A Press Chinese Paralage and the Contract of t
	ESN A		PER AND UNAT ISA
vesto electrone de la superioria (Cas infectionitatio) al esta proventante electrone electrone electrone electro sube and estate de las secondad el la subergradia (al las testas terrate ancione electrone electrone electrone e	MSN 201	illing processing in crossing with	(a stears of this system is). A strain of this system is a strain of the system is a strain of
Technolog at the second at the second at the second se	MSN	and a school is noqueen	APTA2DE STUSIAS REAL
s (1) set en su a la constante a constante a constante a la constante a constante a constante a constante a con Se la constante a constante	ESN	restore company in the second processory of the second sec	instances extended to be a second or den
א איז איז איז איז איז איז איז איז איז אי	an Solat Station State at the Sample of	n the sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-	n company prevente any rest of the
າຍ ກັບບັນກຸ່ ສາລັງລະບາຊົນເປັນໜ້າກ່ຽນວ່າ ໃນວ່າ ແລະ ສາກັນໃຊ້ ມີ ໄດ້ມີກໍ່ 1 ກາກ ອັນການ ລຸດການ ແມ່ນ. ແມ່ນ ການປະການ ລຸດການໃຫ້ເປັນແລະ ຈາກ ທີ່ ສາມະລາກ ແລະ ລາກ ການ ທ່ານປະຈາກການ ລາການ ແລະ ລາການ ແລະ ການປະການ ການປະການ ສາການປະການ ການປ	ESN HER AN INTERN	de la company de	STATIOTAL PROPAGE LATIO
אלק כמודבעו - שרמע אין אליוע אם בעובות (בין - איסס ערב אלימספו פרוייבין זה זה בין בעובות או בין לאוצא כל יציאה (באלומצי וניפוע בעודאנג ידינים) אונייביין ביו איסס ערב אלימספו פרוייבין זה זה בין בעובות אונייבין ביווי	ESN A PACE O LINES OF A	and the second maner film.	o in Alleckum so and in Steal. An anna an ann an anna an anna an an an a
Bald with order Checkin within the rest start of your short your sh	and a standard of the second states of the Sec	TNON TAXABLE	an sa wasted il 407/10
the metricide to indicate the battle careful and specific and the finite to an anti-anti-anti-anti-anti-anti-anti-anti-	letuendo estávora recouplos follom bous e os logres spéléntes e set atronomica est	ad at of a strange of the strange of	nder strongion, barbarking, cr New may Drenke, ferrede, borene
	Auth. Manakes Harris		
	nga silina 200 galatika Insensariga 200 mili 1999 Beschards no coministra analasi ana		
📑 Collection Delivery allan negati all diseasi dan negati das tes ano epita stradar te	ns einninearge fürd is sebsensque kan agi	101 A 101 A 101 A 171 A 165 A 1	
He with Service (GENERAL MANAGER'S APPL) - 500 (CONTRACT) - 500 (CONTRACT)	anda ina laws of the state states accompany 		es spriteriet and the anchical
ns losing and the protocol growther on producing subsiding the best subsidied with Monthly payment	is isona is all dentratino ya bati hts of \$	n vi visulas. Estantes	a you il 2001/2009 1004
and in the first we want and the first media and some the media of the first we have been been been been been been been be	e i sonnar equipment is registered as hart e	Contract day and a second s	
ATE & TIME OF SCHEDULED INSTALLATION	OF AUTOMOBILE	LICENSE PLATE NO.	UNLOCK CODE
PECIAL INSTRUCTIONS			
STICE TO THE CUSTOMER: By signing below, you acknowledge that you have re mplate, and that you have read and understood, and agree to be bound by the	ceived a copy of this Order Form terms and conditions on this s	, that you agree that the inf ide and the reverse side in	ormation above is correc cluding but limited to th
almer of warranties and limitations of remedies in paragraph 2 and the indemnitie preby personally guarantees, uncontitionally and at all times, the payment wher areby authorizes Company to investigate the credit of Customer and gives Compo	s in paragraph 3. If customer is a a due of all indebtedness of such my permission to check Custome	corporation, partnership, o h corporation, partnership, r's credit and to provide an	or other entity, the unders or any other entity. Cust id exchange credit inform
parding Customer with great agencies in this is a creat card purchase. I author	ize BellSouth Mobility to charge	the total balance due to the	ne card number shown a
USTOMER SIGNATURE N SALE TATE A DATE NOT SALE SI AND BAI REPRESENTATIVE	SIGNATURE	E-NUMBER	DATE

	ANTS OFFICE STREAM OF DELIVER OF DELIVERS OF STREAMS IN THE STREAM OF TH	n de Traeaman o critorad de Scotton en a s/listall, a 1) strang san aix de la site de Scotton en an ich weiten australie stat sol san branch i indian	JA 244 H. 27 14 1 MOBILE NUMBER 1999 10 (STC) 31/4 - 21 14
· · · · · · · · · · · · · · · · · · ·	ORDERSTYPERINGULAR IN ANNUAL AND SALES ORDER		BWS CREDIT ORIGINAL ORDER
	CUSTOMER NUMBER	SHIP TO	CUSTOMER NUMBER (1)47 (1446)
	CUSTOMER VAME		ANOBELIN O BUILADERI UNA ZADRAAMINI IN ANALA ANOBELIN O BUILADERI UNA ZADRAAMINI IN ANALA ANALANI INTE ANALANI ANALANI ANALANI
	ATTRACTOR PURCHASED ON LENSED AN UNTERTRACING ATTRACTOR AND	ATTENTION OF THE ATTENT OF THE ATTENTION	cierdis national di consentin de Septellin, despectivoje Constate des la Constata cui del Sectio del di Constate
	ADDRESS JUVALWURLA ALLAUTOLS UNA HEADTLEVE STATISTIC	ADDRESS	ATTACAN ATTAC DATUMAN MALE JANA NA ANA ANA ANA ANA ANA ANA ANA ANA
	נייז אין נעברטאנג אין	LEATE ON STATE JAKE WE CITY, STATE, ZIP & AMAGE STATE	CALIFORNIA CONTRACTOR OF TO RECORDER TO A
	WORK PHONE CARES IN THE REAL PROVIDENT OF THE PHONE OF TH	WORK PHONE	HOME PHONE
	PUREYTINDO SPORATE ETATALE EV SUBICIALA TIMA DIMINIA	All tax exempt sales required to Customer Order.	ure exemption certificate to be attact
	SPECIAL PROGRAM	de 18. julio de la contra de la c	eldert (Here: Represe) - Dadda ona Rollandia
	איז	nen an Angeler (her en	THE REPORT OF A CONTRACT STATES OF A CONTRACT OF A CONTRAC
		CRIPTION STATES TO STATES OF A CONTRACT OF A	
		MSN 3/6-17262	
	p / motonola 030	ESN 201154582	
	y c statu inte segundo dese rece ato data setta segundo da azasino 2	e izre Nillefel) založe (MSN 2001 č Brokov) dobila za pr Počiško sliči poneraza	ander in aller and a line of the second state
	61 - 1302 19045 - 13170050 938 938 938 938 939 939 93 93 93 93 93 93 93 93 93 93 9	MSN constants of the	na na hana na
		ESN STAN STRANG	All and the second seco
	the second back and the second production of the second product and the second back and the second back and the second the second the second s	NEW SOLE WAR CHOISES	indunation de la contraction de la contraction de la contraction de sector de la contraction de la contra
	אין		a share a share a share a same a same a same a same a sa
	es mouried in Ges party in collecting seen amounts. All minimum sing seen is the	Services base along the table of BINN 200 voltations of the services of the se	Addates a field of the second
	inter in provide a la sectore de	A D AL BISIS DO LAND DISTRICT MARKEN AND AND AND AND AND AND AND AND AND AN	na se
2	2.5. Standing of the state with the state of the state	en intervet beinder ESN som her ander an	d Martin Press, State St
	horizona in the state of the st	en hintin treinin (ne s) MSN:n (nessel) totter el beind s a construction (c) (construction (c)	nico (nis) discused ministry insi- (cond (their of 6denied ym 1997) and the second of the second of the Although (1997) 1940
	Paid with order. Checked with it is the Wasser and	A second s	
	Stellor notzeni v to sto siloner ad di in Silone 34 di in Sil	પુરુ પાદાદાદ્વાં છે. તેમ માં ઉપયોગ છે. પંચ પુત્ર કેમ્પ્રાંગ છે અને પંચ (પ્રાપ્ય) કેંકલે (પ્રક્રોપ્રક્રાણ્ય) કેવી ઇપ્રિક્ટે લ્લ છે પ્રત્યું પ્રાપ્ય કેમ્પ્રાન્સ કે લોકોન, કેટ બાંજે <u>આને પ્રશ્ન વિદ્યાર્થ ભૂભવ</u> ે દેશક છે પ્રત્યુક્ત કેક્સ્પ્રાન્સ કેલ પ્રાપ્ય કે વિદ્વાર્થ કે છે તે છે.	concerning of the second of the second secon
	DICTEDIC CATO OF DIMON (DIVISA)	energe strong Exp. model manufath	nonsi z WARDER entre skil valitati 271/3 1
		in all michiels moniscripticales are sublict associated and as	
		andra and and a second a consistent of the second of the s	
a * .** -2		<u>n 2 monthests studelly a provinced work a state on to even on some sou</u> Analogie <mark>angle and the state state state and source to the source and states to</mark>	AL IO 15 - NO AL PORTAGE AND A THE COMPANY STATEMENT IN SIG 2, 15 - NO TO OWNER AND A COMPANY STATEMENTS
	Late transit statute to an animate our recovery to an Balance \$	L MANAGER'S APPROVAL BRYPT THE WEI SIGGLINGS NAME DRIVIT DEMOSTING VI BUILDING 40.0 MONTHIN DAYMENTS OF \$	strika i i i i i i i i i i i i i i i i i i
	ריינגע נען ער ער איז	ere setter concret is registered as part of this orientation of the	
		KE, MODEL & COLOR OF AUTOMOBILE	LICENSE PLATE NO.
	SPECIAL INSTRUCTIONS		
· · · ·			
			and an
	NOTICE TO THE CUSTOMER: By signing below, you acknowled	ge that you have received a copy of this Order Form, t	hat you agree that the information above is co
	claimer of warranties and limitations of remedies in paragraph 2	and the indemnities in paragraph 3. If customer is a c	p and the reverse side including but limited to proporation, partnership, or other entity, the und

it Refer	ence Nu	mher			obile # (/					
N Chan	ge QN	o Install	Contion	2) M	obile # (<u></u>	7:11		1100	250	29
			Mobile Numbe	er 3) M	obile # (7	E.S.N.	1.666	2570	5
<u>60 `</u>	102	2372	Date	4) M	obile # (<u></u>	7:13	E.S.N. <u>211</u>	201	577	2_
CONSUM	ER Comp	lete Bones 1 & 3	COMM	RCIAL/CORPOR	ATE - Complete Box	es 1, 2, & 3					
[]	1.10	<u>مرزي منبي</u>	and to	1183	Yes I	ło		BELL BELL Comparison	SOUT	TH Mo	bil
Market		Agent	Code ^a Sales Rep.		. Existing custom	er?	SERVICE PLAN SELE	CTED .		110	20
CON Print	SUMER ;;;	and address of	, alabel bys 1, 2000, 1 195, CB (Schurt George Demon Personellale f	ne i su Netzi (11 Ar charae mar	to to this account.		Local airtime min	ites included per month:	1.10	<u>, , , , , , , , , , , , , , , , , , , </u>	
۳: ۲. ۲. ۲۱۳۳				C S			CUSTOM CALLING	FEATURES	1 M		
Rèsponsi	ble Party Fu	rst Name (* 40%	CHATP MICHTON	() J & Last Nam	e		2 Call Waiting	ng si za sala	<u>, a ş. 7</u>	<u> </u>	
Billing Ad	Idress/Post	Office Box	<u> </u>		مر میں اور میں		O Three Porty Co	inferencing	\$		
City	<u>ः अपूर्णवस्</u> जिल्लाचारम्	<u> 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997</u> 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1	State	Zip + Fou		×12,	D Any Three Fea	tures	ં_	\$	······································
Home Ph	one		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Work Pho) ine vik		D Mobile Memo		\$		•••••
z.g.:84	- NA 2011	et i star po	en braakerikooren	97310 (YZ	ANNUAL INCOME		Pager #	Service	-	- Presiden Generalista North Charles	
Social Se	curity Num /	ber : /::::::::::::::::::::::::::::::::::	un (tox un par se par		\$35,000 - \$50,000 -	\$49,999 \$74,999	Description	ends	- s_		· · ·
Date of B	irth	a i sa paso :	Male Fer	male O	\$75,000 \$90,000	\$89,999 \$105,999	 Mobile-To-Mol Emergency Ro 	oile ad Service"	\$		
Driver's L	icense Nurr	iber	State	, ŭ	\$115,000 & ABOVE		 Detailed Billin D Toll Restricted 	g – sederázer . Let	**************************************	<u> </u>	•
	MERCIAL/C		លក្រ សាមស៊ីយនេះដ	sod kur ym 🕐	the spectrum of the	The second se	C Incoming Call	s Only s Only	··· · \$	<u>. </u>	·. ·
er) sinti (25) sinti (25) sinti	1, 100 ,	977 - 18 esta 187 1873 - 1886 - 187 1873 - 1886 - 1886	ina Purcl	hase Order Nun	nber	Ma	C Miscellaneous		<u> </u>	s	
Compan	y Nameas:	ala ang ta	and the second	Exempt Number	· · · · · · · · · · · · · · · · · · ·	E AF	LONG DISTANCE	p Distance		2 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	
Supervis	or's Name		Supe	rvisor's Phone N	ło.	Yrs. in	Other				
Does stre	et address	differ from billin	ng address? Yes	No	n onggangerika. Nggangerika Nggangerika	business	CELLULAR PHONE			\$	· :
is this br Type of I	anch or sub ousiness:	osidiary of the n	nain office?" Yes	No ship or Partners	hip 🖸 Other		(initial one)	Accept	Decline _	27.2	
10938.87 9947 197	hi dani - Ladis Ali ta Contest	1.12973 	and and the second them. In the second second	son nina. Dun barn ci			Cellular Phone	Premium/A \$ 2.95	ionth Deduc \$3	tible S	n an ag San San
Bank Na	me .	Account C	Phon	e Number	Account Num	ber	*If you subscribe to acknowledge that	o cellular phone insuran you have received and r	ce and/or emer ead the broch	rgency road serv	ice, yoi under
Trade Re	ference	Contact	Phon 170 Phone Wilk Phone	e Number	Account Num	ber	the terms and con	ditions under which sam	e is offered out	lined therein.	
Trade Re	ference va						فأكداد سينسب المتريح		ll or damage. r		
		Contact	Constant southon	e Numberg (): ,	Account Num	ber	I understand that phone may be gre	in the event of a loss, the ater than the original pr	ice	Customer India	ы
Trade Re	ference	Contact	Phone	ne Number	Account Num	ber ber	I understand that phone may be gre	in the event of a loss, the ater than the original pr	ice	Contrare India	
Trade Re	lerence		NSE OR PICTURE L	ne Numberg	Account Num Account Num	ber kasting of the ber	I understand that phone may be gre PAGING Pager Number	in the event of a toss, the ater than the original pr	ice	Customer India	44
Trade Re ATT/ This	ference CH COPY C is to certify	Contact Contact	NSE OR PICTURE ID.	ne Number ne Number ne Number ne Ballsonth Mol	Account Num	ber television	I understand that phone may be gre PAGING Pager Number PIN Service	in the event of a toss, the cater than the original pr	ice	Clusterier of hite	
Trade Re ATTA This and the trade	ference ACH COPY C is to certify that it mat	Contact Contact	NSE OR PICTURE ID. sitively identified the ure child name on the sitively identified the ure child name on the sitively identified the	e Number e Number above applica is BellSouth Mol	Account Num 407 114 Account Num nt's name and sign bility Cellular Agree	ber ber ature	I understand that phone may be gre PAGING Poger Number PIN Service BellSouth Paging S Paging Service is a	in the event of a loss, the ater than the original pr iervice may be discontin provide only with Bells	ued at any time buth Cellular Se	s with no penalty rvice: In the even	y BellSo
Trade Re ATL This and and the state	ference ACH COPY C is to certify that it mat	Contact Contact F DRIVER'S LICE that I have pos ched the signat	NSE OR PICTURE I.D. ilitively identified the ure cind nome on the second s	e Number; e Number above applicat is BellSouth Mol	Account Num 402 Account Num Account Num bility Cellular Agree	ber sal	I understand that phone may be gre PAGING Pager Number PIN Service	in the event of a loss, the atter than the original pr evence mary be discontin routlable only with Bells, retrice mary be discontinified by th cally discontinued.	ued at any time suth Cellular Se e mobile numb	vith no penalty rice: in the even er above, the pa	r, BellSo at the cruging se
Trade Re ATT/ This sont and trace	ference ACH COPY C is to certify that it mat Company	F DRIVER'S LICE	NSE OR PICTURE L.D. ilitively identified the ure and name on the Store is a store is a store is a store is a store is a store is a store is a store is a store is a store is a store is a store is a store is a store is a store is a store is a store is a store is a store is a	e Nimber above application is BellSouth Mol	Account Num 40.5. Account Num ht's name and sign bibly Cellular Agree	ber sam sin	I understand that phone may be gre PAGING Pager Number PIN Service BellSouth Paging S Paging Service is cancels the celluk shall be automati	In the event of a loss, the cater than the original pr iervice may be discontin varilable only with BellS IF service identified by th cally discontinued.	ued at any time suth Cellulars Se e mobile numb	S with no penalty rrice: In the even er above, the pa	y BellSo at the criging se
Trade Re ATTA This see and there have to have to Name of Date-20	ference ACH COPY C is to certify that it mat that it mat Company	Contact Contact F DRIVER'S LICE that have poor ched the signat	NSE OR PICTURE I.D. Silvey identified the rec min mer on this silvey identified the rec min mer on this silvey identified the silvey identified the silve	e Numberg above applica is BellSouth Mol is BellSouth Mol des Representat	Account Num 40.7 Account Num nt's name and sign bility Cellular Agree sign ves Signature	ber van de ber d	I understand that phone may be gre PAGING Pager Number PIN Service BellSouth Paging S Paging Service is cancels the cellule shall be automati TOTAL MONTHLY S (Excluding additio	in the event of a loss, the atter than the original pr envice mary be discontin varilable only with Bells, ar service identified by th cally discontinued. ERVICE and airtime charges and	ued at any time suth Cellular Se e mobile numb taxes)	swith no penalty rvice: In the even er above, the par	A BellSco at the criging se
Trade Re ATLA This sect and trade to react and trade to react Name of Date-200	ference ACH COPY C is to certify that it mat that it mat Company Active ATY	Contact Contact that I have poor that I	NSE OR PICTURE L.D. itively identified the ure and name on the State of the state of the State of the State of the State of the State of the State o	a dove applica is BellSouth Mo BellSouth Mo des Representat int Name	Account Num 407 Account Num ht's name and sign bility Cellular Agre yvés Signature DESCRIPTION	ber state	I understand that phone may be gre PAGING Poger Number PIN BellSouth Paging S Paging Service is cancels the cellula shall be automati TOTAL MONTHLY S (Excluding additio	in the event of a loss, the cater than the original pr iervice may be discontin rvailable only with BellS IT service identified by th cally discontinued. ERVICE inal airtime charges and SERIAL NUMBERS	ued at any time buth Cellular Se e mobile numb	with no penalty rrice: In the even	A BellSo to the criging se
Trade Re ATIA This see and test test Name of Date Nume of LN TY	ference ACH COPY C is to certify that it mat that it mat Company a sector	Contact Contact DF DERVER'S LICE that I have poor ched the signat	NSE OR PICTURE L.D. NIVE OR PICTURE L.D. NIVEY identified the ure and name on the State of the State State br>State of the State Sta	above application above application above application and a set of the set of	Account Num 40.7 Account Num nt's name and sign bibly Cellular Agree vers Signature DESCRIPTION	ber ber cture	Lunderstand that phone may be gre PAGING Pager Number PIN Service BellSouth Paging S Paging Service is a cancels the cellule shall be automati TOTAL MONTHLY S (Excluding addition MSN ESN	In the event of a loss, the rater than the original pr envice may be discontin practicable only with BellSc ar service identified by the cally discontinued. ERVICE nal airtime charges and SERIAL NUMBERS	ued at any time with Cellular Se e mobile numb	swith no penalty rvice: In the even er above, the particular Sector Sector Sect	A BeilSo the cu iging se
Trade Re This see and the trade Name of Date - W LN TY	ference ACH COPY C is to certify that it mat Company Company	TEM NUM	NSE OR PICTURE I.D. NSE OR PICTURE I.D. itively identified the ure cand name on the state of the state of the state of the state of the state of the	e Numberg ne Number above applicat is BellSouth Mol is BellSouth Mol des Representat int Name	Account Num 40.7 Account Num nt's name and sign bility Cellular Agne ve's Signature DESCRIPTION	ber ture entre entre ture	I understand that phone may be gre PAGING Pager Number IN Service BellSouth Paging S Paging Service is cancels the cellula ishall be automati TOTAL MONTHLY S (Excluding addition (Excluding addition) MSN ESN MSN	In the event of a loss, the atter than the original pr envice mary be discontin rowilable only with Bells, retrive identified by th cally discontinued. ERVICE inal airtime charges and SERIAL NUMBERS	ued at any time with Cellular Se mobile numb taxes)	with no penalty rvice: In the even er above, the pa	A BeilSc t the c t the c UNIT F
Trade Re This see and this see and the second Name of Date-200 LN TY	ference is to certify that it mat Company Company	Contact Contact that I have poor that I	NSE OR PICTURE L.D. itively identified the ure and name on the Store is a store in the Store	a bove application is BellSouth Molecular in Name	Account Num 40.7 Account Num ht's name and sign bility Cellular Agre Signature DESCRIPTION	ber sam and sam and sam and sam and sam and sa and sam and sam	Lunderstand that phone may be gre PAGING Pager Number PIN Service BellSouth Paging S Paging Service is cancels the celluk shall be automati TOTAL MONTHLY S (Excluding addition (Excluding addition ESN MSN ESN MSN ESN	in the event of a loss, the cater than the original pr envice mary be discontin routlable only with Bellis revice identified by th cally discontinued. ERVICE Inal airtime charges and SERIAL NUMBERS	ued at any time buth Cellular Se e mobile numb	with no penalty rrice: In the even er above, the particular set of the set of	, BeilSco , Beil
Trade Re	ference ACH COPY C is to certify that it mat Company Company A setu A se	FORVERSUE Contact Contact OF DERVERSUE that I have poor that	NSE OR PICTURE L.D. NSE OR PICTURE L.D. NSE OR PICTURE L.D. States and name on the states and name	e Numberga ne Number sabove application is BellSouth Mol est and the sabove des Representation int Name	Account Num 40.7 Account Num nt's name and sign bibly Cellular Agree sign ves Signature DESCRIPTION	ber state	Lunderstand that phone may be gre PAGING Pager Number PIN Service BellSouth Paging Service is a cancels the cellule shall be automati TOTAL MONTHLY S (Excluding addition (Excluding addition (Excluding addition) (Excluding addition) (Excludi	In the event of a loss, the enter than the original pr iervice may be discontin provided only with Bells, ar service identified by the cally discontinued. ERVICE nal airtime charges and SERIAL NUMBERS	ued at any time suth Callular Se e mobile numb	swith no penalty rice: In the even er above, the part S	, BellSo tithe cr ging se
Prode Re ATTA	ference ACH COPY C is to certify that it mat Company Active Company	F DERVEYS LICE That I have poor that I have poor A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NSE OR PICTURE L.D. NIVE OR PICTURE L.D. Silvey identified the ure and name on the silvey identified the ure and name on the silvey identified the silvey	e Numberg ne Number i above applicati is BellSouth Mol is BellSouth Mol is BellSouth Mol is Representati int Name	Account Num 40.7 Account Num nt's name and sign bility Cellular Agree ves Signature DESCRIPTION	ber state	Lunderstand that phone may be gre PAGING Poger Number RIN Service BellSouth Paging Service is a cancels the celluk shall be automati TOTAL MONTHLY S (Excluding additio Cancels the celluk shall be automati TOTAL MONTHLY S (Excluding additio Shall be automati Shall	In the event of a loss, the atter than the original pr envice mary be discontin varilable only with Bells, ar service identified by th cally discontinued. ERVICE inal airtime charges and SERIAL NUMBERS	ued at any time uuth Cellular Se e mobile numb taxes)	swith no penalty rvice: In the even er above, the part scale of the second seco	, BellSc tithe c riging si
Prode Re ATTL/ This Second Name of Date UN TY Classifier C	ference ACH COPY C is to certify thet it most Company	Contact C	NSE OR PICTURE L.D. itively identified the ure and name on the State of the state of the State of the State of the State of the State of the State o	e Numberg	Account Num 40.7 Account Num hts name and sign bility Cellular Agre signature bility Signature DESCRIPTION	ber cture ement.	I understand that phone may be gre PAGING Pager Number BellSouth Paging S Paging Service is cancels the cellul ishall be automati TOTAL MONTHLY S (Excluding addition (Excluding addition) (Excluding addition (Excluding addition) (Excluding addition) (Exclu	in the event of a loss, the eater than the original pr envice mary be discontin routlable only with Bells, revice induced with Bells, revice induced by the cally discontinued. ERVICE inal airtime charges and SERIAL NUMBERS	ued at any time uuth Cellular Se mobile numb (raxes)	with no penalty rvice: In the even er above, the part S S S S S S S S S S S S S S S S S S S	y cells , Bellsc tithe s unit f unit f annie s
Trade Re ATL/ This see and control of the second second Name of the Second second Name of the Second second Name of the Name o	ference ACH COPY Construction is to certify that it may company a sector any a br>any a a any a a any a any a a any a any a a any a a any a a any a a a a	Contact C	NSE OR PICTURE L.D. NSE OR PICTURE L.D. Hitropy identified the ure and name on the State is a set base of the set of the State is a set base State is	e Numberg	Account Num 40.7 Account Num ht's name and sign billy Cellular Agre yes Signature DESCRIPTION	ber cture ement. Soles/Install B Inventory Bron Card #	Lunderstand that phone may be gre PAGING Pager Number PIN Service BellSouth Paging Service is (cancels the celluk shall be automati TOTAL MONTHLY S [Cxcluding addition MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN MSN ESN	In the event of a loss, the rater than the original pr envice may be discontin prailable only with Bells. In a continued. ERVICE nal airtime charges and SERIAL NUMBERS	ued at any time pouth Cellular Se mobile numb traxes)	swith no penalty rvice: In the even er above, the part s start of the second second second second second second second second second second second se	A BellSk the c second second second second UNIT F
Trade Re ATT/ This see and control of the control o	ference ACH COPY C is to certify that it mat Company Active Company Active Act	Contact Co	NSE OR PICTURE L.D. NISE OR PICTURE L.D. Silvey identified the ure and name on the second name on the second name of the	e Numberg	Account Num 40.7. If Account Num nt's name and sign bility Cellular Agree ves Signature DESCRIPTION	ber cture ment. Sales Install B Inventory Bran Card # Security Code # AppEaded	Lunderstand that phone may be green PAGING Perfor Number PIN Service BellSouth Paging S Paging Service is a cancels the cellular shall be automation TOTAL MONTHLY S (Excluding addition MSN ESN	In the event of a loss, the arter than the original pr ervice mary be discontin youldble only with Bells, ar service identified by th cally discontinued. ERVICE nal airtime charges and SERIAL NUMBERS :	ued at any time uuth Cellular Se mobile numb taxes)	swith no penalty rvice: In the even er above, the part science of the second second second science of the second second second second science of the second	A Bellson A Bellson the c rging s Comples C
Trade Re ATI/A This see and the the the the the the the the	ference	Contact Co	NSE OR PICTURE I.D. NSE OR PICTURE I.D. hitively identified the ure and name on the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set o	e Numberg	Account Num	ber cture ement.	Lunderstand that phone may be gre PAGING Poger Number PIN Service BellSouth Poging S Paging Service is a cancels the cellula ishall be automatis TOTAL MONTHLY S (Excluding additio Shall be automatis (Excluding additio (Excluding additio (Exc	in the event of a loss, the atter than the original pr ervice mary be discontin routable only with Bells, revice increases of revice mary be discontinued. ERVICE in al airtime charges and SERIAL NUMBERS	ice.	sufficient rate s	A BellS A BellS A the c riging s A bellS A the c A bellS A bel
Incode Re ATTL/ This see and incode to the second the second	ference ACH COPY C is to certify that it may Company Company a selection a s	Contact C	NSE OR PICTURE L.D. itively identified the ure and name on the States is a state of the Stat	e Numberg	Account Num 407 Account Num ht's name and sign bility Cellular Agre yes Signature DESCRIPTION	ber cture ement. Soles/Install B Inventory Bron Security Code # Application	Lunderstand that phone may be gre PAGING Poger Number PIN Service BellSouth Paging Service is cancels the cellul shall be automati TOTAL MONTHLY S [Dxcluding addition MSN ESN	entre event of a loss, ine energinal pre- enter than the original pre- iervice mary be discontin- rvailable only with Bellis, and a second sec	ued at any time buth Cellular Se e mobile numb traxes/	swith no penalty rrice: In the even er above, the part set of the set of the set set of the set of the set of the set set of the set of the set of the set of the set of the set set of the set of the	VNTT F
Trade Re ATT/ This see and content Date UN TY UN TY Ball with Balance S	ference ACH COPY C is to certify that it mat Company Company Activity Company Activity Activity Company Activity Company Comp	Contact Co	NSE OR PICTURE LD. NSE OR PICTURE LD. NSE OR PICTURE LD. Service Joint and the service of the	e Numberga ne Numberga above applicat is BellSouth Mol is Bell	Account Num 40.7 Account Num nt's name and sign bility Cellular Agree ves Signature DESCRIPTION DESCRIPTION	ber cture ment Soles/Install B Inventory Brar Card # Security Code # Approximations SCHEDULED	Lunderstand that phone may be gre PAGING Pager Number Pith Service BellSouth Paging S Paging Service is a cancels the cellule shall be automati TOTAL MONTHLY S (Excluding addition (Excluding addition (Excluding addition) (Excluding addition	in the event of a loss, the atter than the original pre- eater than the original provide the atternation of	ued at any time outh Cellular Se e mobile numb (taxes)	swith no penalty rvice: In the even er above, the part er above, the part s with no penalty rvice: In the even s s s s s s s s s s s s s s s s s s s	v, Beil/Sc tt the c triging s UNIT f UNIT f UNIT f Sc Subtraction Total Total Total C C Due Subtraction Total C C C Due Subtraction C C C Due Subtraction C C C C C C C C C C C C C C C C C C C
Trade Re ATTU This see and norme of the second pate of the second pate	ference	Contact Contact F DRIVER'S LICE That I have poor ched the signat Contact That I have poor ched the signat Check / Cost TEM NUM TEM NUM Check / Cost Net 30 P.O. # MC O Visci *C Check / Cost Sing equipment	NSE OR PICTURE L.D. NSE OR PICTURE L.D. Silvey identified the ure cind norm on the bulk of the second second second second bulk of the second se	e Numberg e Number above applicat is BellSoath Mo BellSoath Mo des Representat int Name F Star Sales D Sales D ress purposes ()	Account Num	ber cture ment. Sales/Install B Inventory Brar Card # Security Code #Aspeciate SchedulleD	Lunderstand that phone may be gre PAGING Porger Number RIN Service BellSouth Paging S Paging Service is a cancels the celluk shall be automati TOTAL MONTHLY S (Excluding additio Cancels the celluk shall be automati TOTAL MONTHLY S (Excluding additio Cancels the celluk shall be automati TOTAL MONTHLY S (Excluding additio Shall be automati Shall be autom	In the event of a loss, the atter than the original prevent of a loss, the atter than the original prevent of the atternation	ued at any time such cellular se mobile numb (toxes)	swith no penalty rvice: in the even er above, the part s s s s s s s s s s s s s s s s s s s	UNIT i UNIT i UNIT i Combined Subbi Combined Subbin
Trade Re ATT/ This see and norme of Date Date Date Date Date Date Date Date	ference	Contact Co	NSE OR PICTURE L.D. itively identified the use and name on the state of the state of the state of the state of the state of the state of the state of	e Numberg	Account Num 407 Account Num hts name and sign bility Cellular Agre ves Signature DESCRIPTION DESCRIPTION	ber cture ement. Sales/Install B Inventory Bro Card # Security Code #Applicate Schedulted Sch	Lunderstand that phone may be gre PAGING Poger Number PIN Service BellSouth Poging S Paging Service is a cancels the cellula ishall be automatis TOTAL MONTHLY S (Excluding additio Shall be automatis TOTAL MONTHLY S (Excluding additio Shall be automatis Shall be automatis Shall be automatis (Excluding additio Shall be automatis Shall be automatis (Excluding additio Shall be automatis (Excluding additio (Excluding additio (Exclud	ervice mary be discontin ervice mary be discontin provide only with Bells envice mary be discontinued. ERVICE nal airtime charges and SERIAL NUMBERS SERIAL NUMBERS Unlock Code Unlock Code	ice. ued at any time nuth Cellular See (roxes) (roxe	swith no penalty rvice: In the even er above, the part size of the even er above, the part size of the even size of the even	A Beils A B
Trade & ATTU This see and the norm of the Date - When the UN TY - UN T	ference	Contact C	NSE OR PICTURE LD. NSE OR PICTURE LD. Wire and name on the state of the state of the state of the state of the state of the state of the state of the	e Numberga e Numberga above applicat is BellSouth Mol is BellS	Account Num 407 Account Num ht's name and sign bility Cellular Aare yes Signature DESCRIPTION DESCRIPTION	ber cture ement. Soles/Install B Inventory Bar Security Code #Apticated SCHEDULED SCHEDULED SCHEDULED Code Appicated SCHEDULED SCHEDULED SCHEDULED SCHEDULED SCHEDULED	Lunderstand that phone may be gre PAGING Pager Number BellSouth Paging S Paging Service is a cancels the cellule shall be automati TOTAL MONTHLY S (Excluding addition (Excluding ad	ervice mary be discontin reater than the original pr envice mary be discontin reater than the original pr discontinued. ERVICE ERVICE SERIAL NUMBERS SERIAL NUMBERS Unlock Code Unlock Code D PM License Plate Ling period.	ice. ued at any time pouth Cellular Se robile numb taxes)/ taxes)/ taxes/	swith no penalty rrice: In the even er above, the part set of the set of the set of the set set of the set of	A Beilson A Beil
Incide Re ATTL/ This see and control of the control of the Date Control of the Control of the Control of the Credit Credit Control of the Credit Control of the Credit Control of the Control of the Cont	ference ACH COPY CO is to certify that it mat Company	Contact Co	NSE OR PICTURE LD. NSE OR PICTURE LD. Service Joint Service Constraints of the ure and name on the service Joint Service Constraints of the service Joint Service Joi	e Numberg e Number above applicat is BellSoath Mol e Representat int Name	Account Num 407 Account Num nt's name and sign bility Cellular Agree ve's Signature DESCRIPTION DESCRIPTION	ber cture ment. Sales /Install B Inventory Bra Card # Security Code #Applications SCHEDULED SCHEDULED MER ACKNOWLEI Code Mapping of the security for which SCHEDULED MER ACKNOWLEI SCHEDULED MER ACKNOWLEI SCHEDULED	Lunderstand that phone may be gre PAGING Perior Number PIN Service BellSouth Paging S Paging Service is a cancels the cellula school be automati TOTAL MONTHLY S (Excluding additional TOTAL MONTHLY S (Excluding additional Content of the cellula school be available (Excluding additional content of the cellula (Excluding additional (Excluding additional) (Excluding additional)	In the event of a loss, the enter than the original pr enter than the original pr service mary be discontinued. Envice mary be discontinued. Envice identified by the cally discontinued. ENVICE in al aritime charges and SERIAL NUMBERS SERIAL NUM	ued at any time outh Cellular Se mobile numb traces) taxes)	structure rates	UNIT I UNIT I UNIT I Combined
Trade Re Anti- This see and a see and a second sec	ference	Contact Contact F DRIVER'S LICE That I have poor ched the signat Contact F DRIVER'S LICE Contact F DRIVER'S LICE F D	NSE OR PICTURE L.D. NSE OR PICTURE L.D. Silvey identified the ure cind normo on the solution of the solution of of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution	e Numberg e Numberg above application is BellSouth Mol is Bell	Account Num 407 Account Num hts name and sign bility Cellular Agre vis Signature DESCRIPTION DESCRIPTION	ber cture ment. Sales/Install B Inventory Bran Card # Security Code # Aspeciate Schedulted Sc	Lunderstand that phone may be gre PAGING Porger Number PIN Service BellSouth Paging S Paging Service is a cancels the celluk shall be automati TOTAL MONTHLY S (Excluding addition TOTAL MONTHLY S (Excluding addition Shall be automation (Shall be automation) (Shall	In the event of a loss, the event of a loss, the event of a loss of the event of	ice. ued at any time mobile numb raxes) (raxes)	swith no penalty rvice: In the even er above, the part er above, the part s s s s s s s s s s s s s s s s s s s	A Beils A Beil
Arude Re ATL This see and here name of Date Date Date Date Date Date Date Date	ference	Contact C	NSE OR PICTURE L.D. NSE OR PICTURE L.D. Altively identified the ure and name on the state is a set is a set is state is a set is a set is the set is a set is a set is a set is the set is a set is a set is a set is the set is a set is a set is a set is the set is a set is a set is a set is a set is the set is a set is the set is a set i	e Numberg e Numberg above applicat is BellSouth Mol BellSouth Mol e Representat int Name Fillsouth South int Name Fillsouth South Fillsouth Fil	Account Num 407 Account Num hts name and sign bility Cellular Agre yres Signature DESCRIPTION DESCRIPTION DESCRIPTION CELLURAR DESCRIPTION DESCRIPTION CELLURAR DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION CELLURAR DESCRIPTION DESCR	ber trure ement. Sales/Install B Inventory Brar Card # Security Code #Applicate SCHEDULED SCHEDULED Date MARK ACKNOWLEL Call originated from the paragraph inge credit inform	Lunderstand that phone may be gre PAGING Poger Number PIN Service BellSouth Poging S Paging Service is a cancels the cellulat ishall be automation in CTAL MONTHLY S (Excluding addition ishall be automation ishall be aut	in the event of a loss, the eater than the original pr derive mary be discontin provideble only with Bells, revice mary be discontinued.	ice. ued at any time puth Cellular Se e mobile numb faxes) faxes) A Color of Autor Number A Color of Autor Number	with no penalty rvice: In the even er above, the part er above, the part source is a second second second second second second second second second second second second second second second second second second second s	A BellSchutter A BellSchutter
Trade & ATTU This see and Date UN TY UN br>TY UN TY UN TY	ference	Contact Con	NSE OR PICTURE L.D. NSE OR PICTURE L.D. Service of the service o	e Number; e Number; above applicat is BellSouth Mol is BellSouth Mol is BellSouth Mol is Comparison is C	Account Num 407 Account Num 407 Account Num his name and sign billy Cellular Aare yes Signature DESCRIPTION DESCRIPTION DESCRIPTION CONTRACTOR DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION CONTRACTOR DESCRIPTION DESCRIPT	ber ture ement Sales/Install B Sales/Install B Inventory Brar Card # Security Code # Approximation SCHEDULED SCHEDULED SCHEDULED SCHEDULED Card a Security Code # Approximation SCHEDULED SCHEDULED Code Code Security Code # Approximation SCHEDULED Code Security Code # Approximation SCHEDULED S	Lunderstand that phone may be gre PAGING Pager Number PIN Service BellSouth Paging S Paging Service is a cancels the cellule shall be automati TOTAL MONTHLY S (Excluding addition (Excluding addition (Exclud	ervice mary be discontin reater than the original pr discrete the second second second revices mary be discontin revice bench second second revices dentified by th cally discontinued. ERVICE In al airtime charges and SERIAL NUMBERS SERIAL NUMBERS SERIAL NUMBERS SERIAL NUMBERS SERIAL NUMBERS SERIAL NUMBERS SERIAL NUMBERS SERIAL NUMBERS SERIAL NUMBERS SERIAL NUMBERS (s) is terminated through this generated through some, with credit bureaus	ice.	S S S S S S S S S S S S S S	A Bellsc and a second
Incide Re Anti- This see and a Date	ference	Contact Con	NSE OR PICTURE L.D. NSE OR PICTURE L.D. Silvely identified the ure and name on the second name on the second name of the	e Number; e Number; above applications is BellSouth Mol is BellSouth Mol is BellSouth Mol is BellSouth Mol is Control of the South int Name I States is Sales D mers purposes is control of the South is control	Account Num 407 Account Num hts name and sign bility Cellular Agre vis Signature DESCRIPTION DESCRIPTION DESCRIPTION trector's Approval bility active active trector's Approval bility active trector's Approval bility active active trector's Approval bility active	ber cture ment. Sales/Install B Inventory Brar Card # Security Code # Aspectation SCHEDULED MER ACKNOWLET SCHEDULED MER ACKNOWLET Card # Schedult of any in serv card any in serv participation and the service of the s	Lunderstand that phone may be gre PAGING Projer Number PIN Service BellSouth Paging S Paging Service is a cancels the celluk shall be automati TOTAL MONTHLY S (Excluding additio Carcels the celluk shall be automati TOTAL MONTHLY S (Excluding additio Carcels the celluk SN ESN MSN ESN ESN MSN ESN ESN MSN ESN MSN ESN MSN ESN MSN ESN ESN MSN ESN ESN MSN ESN ESN ESN MSN ESN ESN ESN ESN ESN ESN ESN ESN ESN E	In the event of a loss, the event of a loss of the event of th	texes)	swith no penalty rvice: In the even er above, the part swith no penalty rvice: In the even er above, the part s s s s s s s s s s s s s s s s s s s	A BellSc tithe c ging state tithe c ging state and tithe c comble S ble Subto comble S comble S
Ande Re Anti- This see and been norme of Date - - Date - - - - - - - - - - - - - - - - - - -	ference ACH COPY CO is to certify the till mot Company Company Active Company Active	Contact Co	NSE OR PICTURE L.D. NSE OR PICTURE L.D. Silvely identified the ure and name on the solution of the solution of the solution of	a bove applica is BellSouth Mol is BellS	Account Num 407 Account Num hts name and sign bility Cellular Agre viss Signature DESCRIPTION DESCRIPTION DESCRIPTION CELLULAR ADDRESS CONTRACTOR DESCRIPTION DESCRIPTION CELLULAR ADDRESS CONTRACTOR DESCRIPTION DESCRIPTION DESCRIPTION CELLULAR ADDRESS CONTRACTOR DESCRIPTION DESCRIPTION CELLULAR ADDRESS CONTRACTOR DESCRIPTION CELLULAR ADDRESS CELLULAR ADDRESS CELLU	ber trure ment. Sales/Install B Inventory Bro Card # Security Code # Aspicated Schedulted Sch	Lunderstand that phone may be gre PAGING Poger Number Plin Service BellSouth Poging S Paging Service is a cancels the cellula shall be automati TOTAL MONTHLY S (Excluding addition Shall be automati TOTAL MONTHLY S (Excluding addition Shall be automati Shall be aut	In the event of a loss, the event of a loss, the event of a loss of the event of the even of the event of the event of the	texes) texe	swith no penalty rvice: In the even er above, the part er above, the part source of the second source of the secon	A BellSco r, Bell

.



201 EAST MAIN STREET SUITE 1000 LEXINGTON, KENTUCKY 40507-1380

> (606) 231-3000 FAX: (606) 253-1093

*FRANKFORT OFFICE: 307 WASHINGTON STREET FRANKFORT, KY. 40601-1823 (502) 875-6220 FAX: (502) 875-6235 **WESTERN KENTUCKY OFFICE: 201 C NORTH MAIN STREET HENDERSON, KY. 42420-3103 (502) 831-1900 FAX: (502) 827-4060

THE T I BOO

***LOUISVILLE OFFICE: 2650 AEGON CENTER 400 WEST MARKET LOUISVILLE, KY. 40202-3377 (502) 568-9100 FAX: (502) 568-5700

INTERNET: www.skp.com

August 16, 1999

JAMES D. ALLEN SUSAN BEVERLY JONES MELISSA A. STEWART TODD S. PAGE JOHN B. PARK PALMER G. VANCE II RICHARD A. NUNNELLEY WILLIAM L. MONTAGUE, JR. KYMBERLY T. WELLONS CHARLES R. BAESLER, JR. STEVEN B. LOY PATRICIA KIRKWOOD BURGESS RICHARD B, 'YANNE JOHN H. H' YRSON** LINDSEY V' YAM III JEFFERY T. ' YTT AMY C. LIEB ...MANN ELIZABETH FRIEND BIRD** MOLLY J. CUE CRYSTAL OSBORNE JOHN A. THOMASON** DELLA M. JUSTICE BOYD T. CLOERN*** DONNIE E. MARTIN DAVID T. ROYSE

(OF COUNSEL) JAMES BROWN*** DOUGLAS P. ROMAINE JAMES G. STEPHENSON GEORGE D. SMITH

WALLACE MUIR (1878 - 1947) RICHARD C. STOLL (1876 - 1949) WILLIAM H. TOWNSEND (1880 - 1964) RODMAN W. KEENON (1882 - 1966) JAMES PARK (1892 - 1970) JOHN L. DAVIS (1913 - 1970) GLADNEY HARVILLE (1921 - 1978) GAYLE A. MOHNEY (1906 - 1980) C. WILLIAM SWINFORD (1921 - 1988)

Hon. Helen C. Helton, Executive Director Public Service Commission 730 Schenkel Lane Frankfort Kentucky 40601

> RE: Application of Western Kentucky Gas Company Case No. 99-070

Dear Director Helton:

Enclosed please find the original and 10 photocopies of the Motion of WBI Southern, Inc. for Full Intervention in the above-referenced action. I am also enclosing the original and 10 copies of an Entry of Appearance in connection with the Motion. I have also enclosed one extra copy of each of the documents. Please stamp the extra copies as "filed" and return them to me in the enclosed self addressed stamped envelope.

If you have any questions regarding this Motion, please do not hesitate to give me a call.

Sincerely lel Camenisch, Jr.

JMC/wlh Enclosures C:\Work\8.16WLH\Heltonltr8.16.99

ROBERT F. HOULIHAN LESLIE W. MORRIS II LINDSEY W. INGRAM, JR. WILLIAM L. MONTAGUE JOHN STANLEY HOFFMAN** BENNETT CLARK WILLIAM T. BISHOP III RICHARD C. STEPHENSON CHARLES E. SHIVEL, JR. ROBERT M. WAT III J. PETER CASSIDY, JR. DAVID H. THOMASON** SAMUEL D. HINKLE IV*** R. DAVID LESTER ROBERT F. HOULIHAN, JR. WILLIAM M. LEAR, JR. GARY W. BARR DONALD P. WAGNER FRANK L. WILFORD HARVIE B. WILKINSON ROBERT W. KELLERMAN* LIZBETH ANN TULK J. DAVID SMITH, JR. EILEEN O'BRIEN DAVID SCHWETSCHENAU ANTA M. BRITTON RENA GARDNER WISEMAN DENISE KIRK ASH BONNIE HOSKINS C. JOSEPH BEAVIN DIANE M. CARLTON LARRY A. SYKES P. DOUGLAS BARR PERRY MACK BENTLEY MARY BETH GRIIFFITH DAN M. ROSE GREGORY D. PAVEY J. MEL CAMENISCH, JR. LAURA DAY DELCOTTO LEA PAULEY GOFF*** CULVER V. HALLIDAY***

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

IN THE MATTER OF:

THE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN ADJUSTMENT OF RATES

CASE NO. 99-070

ENTRY OF APPEARANCE

)

)

)

Comes now Robert M. Watt, Jr. and J. Mel Camenisch, Jr., Stoll, Keenon & Park, LLP, 201 East Main Street, Suite 1000, Lexington, Kentucky 40507-1380, and hereby enters their appearance herein for the Intervenor WBI Southern, Inc. and requests that all future correspondence and pleadings be served upon them as counsel for the Intervenor. It is further requested that all future correspondence and pleadings in this case also be served upon the following: Keith Tiggelaar, Manager - Regulatory Affairs, WBI Southern, Inc., P.O. Box 5601, Bismark, N.D. 58506-5601.

This the <u>llen</u> day of August, 1999.

Robert M. Watt, Jr. J. Mel Camenisch, Jr. STOLL, KEENON & PARK, LLP 201 E. Main Street, Suite 1000 Lexington, Kentucky 40507-1380 (606) 231-3000

ounsel for WBI/Southern, Inc.

CERTIFICATE OF SERVICE AND FILING

Undersigned counsel hereby certifies that an original and ten (10) photocopies of the foregoing Entry of Appearance was served and filed by mail to:

Hon. Helen C. Helton Executive Director Public Service Commission 730 Schenkel Lane Frankfort, Kentucky 40601

and served by mailing a true and correct copy of the same, first class postage prepaid, to:

William J. Senter Western Kentucky Gas Company 2401 New Hartford Road Owensboro, Kentucky 42303

Mark R. Hutchinson Sheffer, Hutchinson & Kinney 115 East Second Street Owensboro, Kentucky 42303

John N. Hughes 124 West Todd Street Frankfort, Kentucky 40601

Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, Texas 75265

all on this the <u>16th</u> day of August, 1999.

nsel for WBI/Southern, Inc.

(320)C:\Work\069\WBI\Entry of Appearance

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION



In the Matter of:

THE APPLICATION OF WESTERN)KENTUCKY GAS COMPANY FOR)CASE NO. 99-070AN ADJUSTMENT OF RATES))

MOTION OF WBI SOUTHERN, INC. FOR FULL INTERVENTION IN PROCEEDINGS

* * * * * * * * * *

Pursuant to 807 KAR 5:001, Section 3(8), WBI Southern, Inc. ("WBI Southern") hereby submits its motion for full intervention and protest in the above referenced proceeding. In connection herewith, WBI Southern requests that it be served with filed testimony, exhibits, pleadings, correspondence and all other documents submitted by the parties and that it be certified as a party for the purposes of receiving service of any petition for rehearing or petition for judicial review.

In support of this Motion, WBI Southern states as follows: WBI Southern is a company involved in natural gas pipeline transportation gathering, and storage related activities. WBI Southern recently acquired a storage facility, Kentucky Pipeline and Storage Company, Inc. ("KYPSCO"), located in Hopkins County, Kentucky, which currently has an inactive interconnection point with Western Kentucky Gas Company's ("Western Kentucky") distribution system. WBI Southern is currently in negotiations with Western Kentucky to reactivate and expand the capacity of the above referenced receipt point. Subsequent to such reactivation, WBI Southern plans to utilize this receipt point to provide supply services to transportation customers of Western Kentucky. On May 28, 1999, Western Kentucky submitted an application to the Kentucky Public Service Commission for a rate adjustment. This application included tariff sheets proposing a new Alternate Receipt Point Service under Rate T-5. If approved, the proposed Rate T-5 will have a substantial, direct and potentially detrimental effect upon WBI Southern,, its relationship with Western Kentucky and the feasibility of its plan to offer service to its customers. WBI Southern, therefore, has a direct and substantial interest in this proceeding which cannot be represented by any other party except WBI Southern.

Further, the full intervention and participation in these proceedings by WBI Southern will lead to the presentation of material issues regarding Western Kentucky's application which would assist the Commission in its evaluation of the application. There is no basis on which to find that a full intervention by WBI Southern would unduly complicate or disrupt these proceedings.

Finally, since WBI Southern was not a customer of Western Kentucky until it acquired the stock of KYPSCO on July 7, 1999, WBI Southern did not receive notice of the Application from Western Kentucky. However, WBI Southern learned of the Application following the acquisition and immediately began inquiry into the Application and the applicability of Rate T-5 to its operations. WBI Southern has, therefore, timely sought this intervention into these proceedings.

Accordingly, WBI Southern believes that the requirements for full intervention under 807 KAR 5:001, Section 3(8) have been met, and requests that the Commission permit WBI Southern, Inc. to fully intervene in these proceedings.

Respectfully submitted,

Robert M. Watt, Jr. J. Mel Camenisch, Jr. STOLL, KEENON & PARK, LLP 201 East Main Street Suite 1000 Lexington, KY 40507-1380 (606) 231-3000

UNSEL FOR WEI SOUTHERN, INC.

CERTIFICATE OF SERVICE AND FILING

Undersigned counsel hereby certifies that an original and ten (10) photocopies of the foregoing Motion was served and filed by mail to:

Hon. Helen C. Helton Executive Director Public Service Commission 730 Schenkel Lane Frankfort, Kentucky 40601

and served by mailing a true and correct copy of the same, first class postage prepaid, to:

William J. Senter Western Kentucky Gas Company 2401 New Hartford Road Owensboro, Kentucky 42303 Mark R. Hutchinson Sheffer, Hutchinson & Kinney 115 East Second Street Owensboro, Kentucky 42303

John N. Hughes 124 West Todd Street Frankfort, Kentucky 40601

Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, Texas 75265

all on this the $\underline{\mathcal{K}}$ day of August, 1999.

Coursel for WBI Southern, Inc.

C:\Work\8.16WLH\WKyGasMotion8.16.99



٢

COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KENTUCKY 40602 www.psc.state.ky.us (502) 564-3940

August 16, 1999

Mark R. Hutchinson Sheffer-Hutchinson-Kinney 115 East Second Street Owensboro, KY 42303

> RE: Western Kentucky Gas Company Case No. 99-070 Petition for Confidential Protection

Dear Mr. Hutchinson:

The Commission has received the petition filed July 30, 1999, on behalf of Western Kentucky Gas Company to protect as confidential information containing volumes and discount levels for each special contract customer for whom a discount has been negotiated. A review of the information has determined that it is entitled to the protection requested on the grounds relied upon in the petition and it shall be withheld from public inspection.

If the information becomes publicly available or no longer warrants confidential treatment, you are required by 807 KAR 5:001, Section 7(9)(a) to inform the Commission so that the information may be placed in the public record.

Sincerely,

Heleh C. Heltor

Executive Director

cc: All parties of record

Mailed 8-17-99- H.V.

JOHN N. HUGHES Attorney at Law Professional Service Corporation 124 WEST TODD STREET FRANKFORT, KENTUCKY 40601

Telephone: (502) 227-7270

August 13, 1999

Telecopier: (502) 875-7059

AUG 1 3 1999 PUCLIC SERVICE COMMISSION

Ms. Helen Helton Executive Director Kentucky Public Service Commission 730 Schenkel Lane Frankfort, KY 40602

Re: Case No. 99-070

Dear Ms. Helton:

Please file the supplemental responses of Western Kentucky Gas Company for items 47f and 60 c-e.

If there are any questions about this matter or if additional information is needed, please contact me.

Sincerely, yours John N. Hughes

Attorney for Western Kentucky Gas Company

cc: Intervenors

Western Kentucky Gas Company Case No. 99-070 KPSC Data Request Dated July 16, 1999 Supplemental Response to DR Item 47f Witness: Petersen

Data Request:

Refer to the Application, Volume 2 of 10, Tab 10, the Testimony of Thomas H. Petersen and Volume 9 of 10, Tab 3, the class cost-of-service study.

f. Mr. Petersen also states that the study was performed using fiscal year 1998 data and that results using the forecasted test period would follow a pattern similar to that of the historic cost-of-service analysis. Provide the results for the forecasted period and the appropriate workpapers in the same form as provided in the original filing (i.e., nineteen pages of model results and nine pages of supporting workpapers).

Response:

Because of the nature of the KPSC's request for a class cost of service study on the forecasted test year, more time will be required to provide an adequate response. A completion date is unknown but every effort is being made to provide a meaningful response soon.

Status: A class cost of service study on the forecasted test year required the performance of a detailed design day analysis of the forecasted test year. This study was completed on Monday, August 9. The data from the filing that could be directly entered into the class cost of service study has been entered.

The following analyses have been started but are not yet complete:

-An analysis of meter investment by class

-An analysis of distribution mains investment by size

-An analysis of customer service costs moved to shared services

-An analysis forecasted usage data and design day data to appropriately assign amounts to the customer groupings used in the study.

Detailed data is still being gathered for these analyses. The form of the data will affect how long it takes to complete the study. Western Kentucky Gas Company Case No. 99-070 KPSC Data Request Dated July 16, 1999 Supplemental Response to DR Item 60 c-e Witness: D. Donald A. Murry

Data Request:

- c. Provide an explanation of why each company in the group of comparative companies is considered to be a viable comparison to Atmos.
- d. Provide the most recently approved return on equity for each of the comparable companies, along with the date each was approved.
- e. Do any of the comparable companies use a weather normalization adjustment, a premises charge, or a margin loss recovery mechanism to stabilize their earnings? If so, which ones?

Response:

c. The six Moody's companies used in Dr. Murry's analysis, i.e., AGL Resources, Indiana Energy, Laclede Gas Light, Northwest Natural Gas, Peoples Energy and Washington Gas Light, are companies selected as representative of the gas distribution industry sector by Moody's analysts. Moody's is a highly regarded investor's service and is available and used by investors and analysts. As a thirdparty judge of industry, Dr. Murry selected these companies as useful for comparison.

Although no company is exactly like Atmos in every respect, since these companies are recognized as gas distribution companies by analysts and investors generally, the valuation of the common stocks of these companies is useful comparative information for evaluating the value of the common stock of Atmos. For example, although AGL Resources is a holding company with investments in other activities, its primary business is gas distribution in the compact region of Georgia and Tennessee. Indiana Energy, which is now involved in a merger, formerly was primarily a gas distribution company in Indiana. Laclede is a gas distribution company serving a compact area in St. Louis and its environs. Peoples is a relatively compact gas distribution company in the Chicago area. Each of those companies is in the general geographic region of the U.S. as Western Kentucky; however, there are obvious climatic differences between the service territories of AGL and Peoples. Likewise, Washington Gas Light serves a relatively compact gas distribution market in Washington D.C. and the vicinity. Dr. Murry used the valuations of the common stock of these companies as informative market information; he did not use the valuation of these common stocks as an analytical surrogate of Atmos.

d. According to representatives of the Companies' Investor Relations Departments, the last allowed returns on equity for the Moody's Local Distribution Companies are as follows:

Сотрапу	Allowed ROE	State	Order Date
AGL Resources	11.0 %	GA	June 1998
Indiana Energy	N/A	IN	N/A
Laclede Gas	11.0 %	MO	August 28, 1996
Northwest Natural Gas	11.25 %	WA	October 28, 1997
Peoples Energy	11.1 % & 11.3 %	IL	November 1995
Washington Gas Light	11.5 %	VA	1994

Indiana Energy's Investor Relations Department did not reply to any inquiries.

Cost of capital measured with current data are likely to be more valuable for setting rates because they represent present market conditions. Previously allowed returns do not necessarily represent the current cost of equity. As the above table demonstrates, the most recent award is from June 1998. They reflect expectations at the time they were awarded.

e. Only AGL Resources has implemented a WNA. Only AGL Resources has implemented a Margin Loss Recovery Mechanism. None of the Moody's companies have implemented a Premises Charge or similar rate mechanism.



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

July 29, 1999

To: All parties of record

RE: Case No. 99-070

We enclose one attested copy of the Commission's Order in the above case.

Sincerely,

Stephanie Bel Secretary of the Commission

SB/sa Enclosure William J. Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY 42303 1312

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hutchinson Kinney 115 East Second Street Owensboro, KY 42303

Honorable John N. Hughes Attorney for Western KY Gas 124 West Todd Street Frankfort, KY 40601

Mr. Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265

Honorable David E. Spenard Assistant Attorney General 1024 Capital Center Drive Frankfort, KY 40601 8204

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN ADJUSTMENT OF RATES

CASE NO. 99-070

<u>ORDER</u>

)

)

)

In its July 2, 1999 Order the Commission established a partial procedural schedule in this proceeding which, among other things, did not set a date for a public hearing. Several factors, primarily the uncertainty surrounding the timing of the Commission's move to its new building, caused the hearing date to not be set at that time. Those matters have been resolved and the Commission is now able to establish the remainder of the procedural schedule for this proceeding.

IT IS THEREFORE ORDERED that:

1. The supplemental procedural schedule set forth In Appendix A, attached hereto and incorporated herein, shall be followed in this case.

2. At any hearing in this matter, neither opening statements nor summarization of direct testimony shall be permitted.

Done at Frankfort, Kentucky, this 29th day of July, 1999.

By the Commission

ATTEST:

cutive Dire

APPENDIX A

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE COMMISSION IN CASE NO. 99-070 DATED JULY 29, 1999

The following supplemental procedural schedule augments the partial procedural schedule established by the Commission on July 2, 1999. Nothing contained herein modifies or changes the procedural dates contained in the previous schedule. This schedule is issued solely for the purpose of establishing procedural dates that were omitted from the partial schedule issued July 2, 1999.

Written briefs shall be filed with the Commission no later than. 01/10/00



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KENTUCKY 40602 WWW.psc.state.ky.us (502) 564-3940 Fax (502) 564-3460

Ronald B. McCloud, Secretary Public Protection and Regulation Cabinet

Helen Helton Executive Director Public Service Commission

July 21, 1999

Honorable John Baird Attorney at Law P.O. Box 838 Greenville, KY 42345-0838

RE: Case No. 99-070 Western Kentucky Gas

Dear Mr. Baird:

Paul E. Patton

Governor

The Commission has received your letter dated July 7 concerning the above case. Your letter is being treated as an official protest and will be placed in the case file. The Commission will carefully analyze this case before rendering its decision. Be advised that the effect of the rate increase cannot yet be determined as the increase originally proposed by Western Kentucky Gas is not necessarily what may be ordered in the Commission's final decision.

If you wish to participate in the proceeding, including any hearing that may be held, you must file a motion to intervene with the Commission. Attached is a copy of Commission regulations concerning intervention. If you request limited intervention and your request is granted, you will receive copies of all Commission Orders entered in this case. You will not, however, be served with filed testimony, exhibits, pleadings, correspondence or other documents submitted by the parties. If you wish such information, you must request and be granted <u>full</u> intervention. If you are granted intervention and wish to request a hearing, you should file such a request with Helen C. Helton, the Commission's Executive Director.

The Attorney General's Office for Rate Intervention, which represents consumers' interests has been granted intervention and is participating in this case. You may contact them at (502) 695-5453 to discuss their position on the issues you raise in your protest letter.

Thank you for your interest and concern in that matter.

Sincerely, Stenhan bu

Stephanie Bell Secretary of the Commission



AN EQUAL OPPORTUNITY EMPLOYER M/F/D

rlm Enclosure

99-070

RECEIVED

JUL 1 2 1999

PULLIN SERVICE

COMMISSION

RECEIVED

JUL 1 2 1999

DIVISION OF UTILITY

ENGINEERING & SERVICES

JOHN BAIRD ATTORNEY AT LAW 103 East Main Cross Street P.O. Box 838 Greenville, KY 42345-0838 270-338-5944 fax 270-338-0096

July 7, 1999

Public Service Commission Att: Eddie Smith P.O. Box 615 Frankfort, Kentucky 40602

RE: Objection to Rate Increase By Western Kentucky Gas Company

Dear Mr. Smith

I am writing this letter in opposition to the request for a rate increase by Western Kentucky Gas Company. While I know that it had been approximately 4-5 years since they had a rate increase and I also know that their utility rate are one of the lowest in the Country, I also know that since its acquisition by Atmos, Western Kentucky Gas Company has reduced services, increased inconvenience and customers time, etc., which are factors to consider as well. For example, the Gas Company before it was acquired had offices in both Greenville and Central City. Any problem was only a short 5 minute trip to the office or a phone call away, and the personnel were available to meet with the customer and /or resolve the problem or furnish the service out in the field.

Now it is completely different story. There is no longer a local office in this County. Any time you need to call, you have to dial an 1-800 number to some place in Texas, which sometime takes about 5-10 minutes of waiting time to get through.

Just several weeks ago, I requested new residential service at a house I am building. After a week passed and I was never contacted by anybody (they do have 3-4 workers who live in the county and who we assigned here to do the work upon somebody in Texas sending instructions). I had to call a second time to Texas (having to wait 5-10 minutes to get somebody to talk to) and request for a second time, that somebody come out to meet me at the site, so I could designate where I wanted the line run. After such meeting, several more weeks have passed and I have yet to have the line installed or heard a word from any body about when they plan to get it done. I'm not sure that the delay is not due in part, to the pending rate increase proposed by Western Kentucky Gas Company, i.e., to change over \$1000 for looking up a new house line, i.e. running from the gas company's main to the residential meter. This is a rip-off off and absurd to charge a customer this fee. Several years ago, this was a free service and it should continue to be a free service.

The reduction in man power is also apparent in their field work on emergencies. I had a situation at a rental house, where the old house line rusted through and was leaking gas outside the house, approximately 3 feet from the house. They wanted to wait until office hours before

they would have to come and fix the leak. I demanded that it be fixed immediately since it was a possible fire or explosion hazard to the tenant living in the house. So they came, but only because I demanded it.

Another interesting item is their minimum bill for no usage. I have a office that operates a gas furnace, but has no pilot light. I had to pay \$18.31 to the Gas Company for no gas being used month, which I believe is high. It will be like that for the next several months, until the weather turns cooler. I anticipate that I pay the gas company \$80-\$100 until I start using gas again at my office.

So to summarizes Company should not be allowed to charge a large fee to hook up a new customer. Also the reduction in service, the closing of offices (while they have no office here now, they are still paying a long term lease for a new fancy office that they had built to occupy here in the county), the total inconvenience to customers create by their consolidation, etc., should be considered before my rate increase is granted. Finally, their should be some type of credit for payments made when on gas is being used, to be applied against the bill when consumption resumes in the fall.



JB:

P.S. Today, after my 4th call to Texas (another 10 minutes), somebody call me about installing my house line.



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

July 16, 1999

To: All parties of record

RE: Case No. 99-070

We enclose one attested copy of the Commission's Order in the above case.

Sincerely,

Stephanie Secretary of the Commission

SB/sa Enclosure William J. Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY 42303 1312

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hutchinson Kinney 115 East Second Street Owensboro, KY 42303

Honorable John N. Hughes Attorney for Western KY Gas 124 West Todd Street Frankfort, KY 40601

Mr. Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265

.

Honorable David E. Spenard Assistant Attorney General 1024 Capital Center Drive Frankfort, KY 40601 8204

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN ADJUSTMENT OF RATES

CASE NO. 99-070

ORDER

)

)

IT IS ORDERED that Western Kentucky Gas Company ("Western") shall file with the Commission the original and 15 copies of the following information, with a copy to all parties of record. The information requested herein is due no later than July 30, 1999. Each copy of the data requested should be placed in a bound volume with each item tabbed. When a number of sheets are required for an item, each sheet should be appropriately indexed, for example, Item 1(a), Sheet 2 of 6. Include with each response the name of the witness who will be responsible for responding to questions relating to the information provided. Careful attention should be given to copied material to ensure that it is legible. Where information requested herein has been provided along with the original application, in the format requested herein, reference may be made to the specific location of said information in responding to this information request. When applicable, the information requested herein should be provided for total company operations and jurisdictional operations, separately.

1. Provide an organization chart for Atmos Energy Corporation ("Atmos") as of June 1, 1999. The chart should show all regulated utility divisions and non-regulated businesses.

2. With the exception of Western, provide the following information for each of the regulated utility divisions:

a. The state jurisdictions in which the division operates.

b. The year of the division's last completed general rate case proceeding. If the division is currently involved in a general rate case, indicate when that proceeding is expected to be completed.

c. The authorized rate of return on common equity awarded or authorized in the last completed general rate case proceeding. If the division is currently involved in a general rate case, indicate the rate of return on common equity requested by the division.

3. Western's last general rate case was Case No. 95-010.¹ In the August 10, 1995 Order in that case, the Commission expressed its concern about Western's practices of funding only a portion of its other post-retirement employee benefits ("OPEBs") and of funding internally rather than using a protected fund administered by a third party. Describe Western's current practice with regard to these two issues. In addition, provide justification for Western's current level of OPEB funding.

4. In the October 20, 1995 Order, which adopted the October 9, 1995 Settlement Agreement, the Commission acknowledged Western's agreement to perform a new depreciation study no later than its next general rate application. However, the

-2-

¹ Case No. 95-010, An Adjustment of Rates of Western Kentucky Gas Company, Orders dated August 10, 1995 and October 20, 1995.

October 20, 1995 Order reminded Western that the Commission's concerns about its depreciation study, expressed in the August 10, 1995 Order, would remain pertinent for the review of the new depreciation study.

a. Explain in detail how the concerns expressed in the August 10, 1995 and October 20, 1995 Orders have been addressed by the September 30, 1997 depreciation study filed with Western's application.

b. Refer to the September 30, 1997 depreciation study filed with the application. Provide the calculations for the net salvage rates with details and supporting documentation which support the change, to a negative 150 percent, in the salvage rate for Account 380, Services.

5. Refer to the Application, Volume 1 of 10, Tab 1, Item 5. Provide the calculations that support Western's determination that it has experienced an \$800,000 decline in lost industrial margins and \$1,600,000 in lost margins due to energy conservation and declining customer usage. Include a detailed explanation as to how Western identified these specific causes.

6. Refer to the Application, Volume 2 of 10, Tab 1, the Testimony of Conrad E. Gruber. On pages 12 through 18 of the testimony is a discussion of Western's efficiency and productivity improvements. Explain in detail how the benefits of these efficiency and productivity improvements have been incorporated into Western's forecasted period. Include a dollar quantification of the improvements and identify where this quantification has been shown in the forecasted period.

7. Refer to the Application, Volume 2 of 10, Tab 4, the Testimony of Betty L. Adams. On page 5 of the testimony it is stated that Western's O&M budget was

-3-

converted into National Association of Regulatory Utility Commissioners ("NARUC") accounts. Provide a detailed explanation as to why Western utilized the NARUC accounts rather than following the Uniform System of Accounts prescribed by the Federal Energy Regulatory Commission.

8. On page 10 of the Adams Testimony is a discussion of changes in Western's operational budget due to the implementation of the Shared Services approach. For each change listed on page 10, compare in dollar amounts the changes in Western's O&M budget with the changes in expenses from the Shared Services program. If the increase in Shared Services expense exceeded the reduction in Western's O&M budget for a particular change, explain in detail why it was cost effective to make the change.

9. Refer to the Application, Volume 2 of 10, Tab 5, the Testimony of David H. Doggette, concerning Western's capital budgets.

a. Is it correct that none of the capital budgets submitted in Western's application reflect Western's normal "bottom up" development approach?

b. Has Western prepared its capital budgets for FY2001 through FY2003, following the "bottom up" approach, utilizing the new Oracle accounting system? If yes, provide the FY 2001 through FY 2003 capital budgets, using the "bottom up" approach, in a format similar to that shown in Exhibit DHD-1.

c. Has Western performed any analysis or review to determine if using a "FY 1999 baseline" approach for its capital budgeting produces a similar result as the "bottom up" approach? If yes, provide copies of that analysis or review. If no, explain why such an analysis or review has not been performed.

-4-

d. Have the FY 2000 and FY 2001 capital budgets filed in this proceeding been entered into the Atmos Capital Budget Gathering System? If no, explain in detail why this has not occurred.

e. Provide copies of the approved FY 2000 and FY 2001 capital budgets within 10 days of their approval by Atmos's Board of Directors. Explain in detail all differences between the approved FY 2000 and FY 2001 capital budgets and those submitted with the application.

f. Provide the capital budgets for the Information Technology strategy and other Shared Services projects, for the FY 2000 through FY 2003 periods. This information should show the amounts for the total budget, as well as Western's forecasted investment, for each fiscal year. Explain in detail how Western's forecasted investment was determined.

10. Refer to the Application, Volume 2 of 10, Tab 5, Exhibit DHD-1, page 2 of 6. Provide the workpapers and assumptions used to determine that the projected overhead rate should be 50 percent and the projected increase in maintenance and improvements should be 36.25 percent for the FY 2000 capital budget. Include an explanation as to how these determinations were made.

11. Refer to the Application, Volume 2 of 10, Tab 6, the Testimony of DonaldP. Burman. On pages 6 and 7 of the testimony is a discussion of Western's accounting for pension expense.

a. Provide the balances of Western's pension assets and obligations shown on its balance sheet as of March 31, 1999, as well as for the base period and

-5-
forecasted period. Include the account numbers and titles used to record these assets and obligations.

b. Has Western included its pension assets and obligations in its calculation of its rate base? If so, provide the reference to the appropriate schedules and workpapers that disclose this inclusion.

12. Provide the actual capital ratios for Atmos as of June 30, 1999.

13. Refer to the Application, Volume 2 of 10, Tab 7, the Testimony of John P. Reddy. On page 4 of the testimony, it is stated that Atmos's objective is to maintain a capital structure comprised of approximately 50 percent equity and 50 percent debt. However, on page 6 of the Reddy Testimony, the summary of Atmos's five-year financial plan for FY 2001 through FY 2003 shows a capital structure comprised of equity ranging between 53 percent and 61.9 percent.

a. Explain why Atmos's five-year financial plan presents capital structures that are significantly different than Atmos's expressed capital structure objectives.

b. The equity portion of Atmos's capital structure as of March 31, 1999 was 44.19 percent. The equity portion shown on page 6 of the Reddy Testimony shows a forecasted equity component of 49.8 percent for FY 2000. Explain in detail why it is reasonable to expect such an improvement in the equity in less than a two-year time frame.

14. Refer to pages 6 and 7 of the Reddy Testimony. For each of the assumptions listed below, indicate how reasonable that assumption is for Atmos. Include any analyses, studies, or other documentation that support these assumptions.

-6-

a. A return to normal long-term weather patterns for the other Atmos utility divisions beginning in FY 2000.

b. The issuance of \$26 million of new equity in November 1999.

c. Raising \$20 million of new equity annually through stock plans.

d. No significant acquisitions. Explain how this assumption is not in conflict with the statements contained on page 5 of the 1998 Atmos Annual Report to shareholders.

e. Cash flow from depreciation will fund ongoing capital spending requirements.

f. No new long-term debt issues.

15. Refer to the Reddy Testimony, the attachment titled "FR10(9)(h)11," Sheets 1 and 2 of 3. Explain why each of the assumptions listed on these schedules is reasonable. Include any analyses, studies, or other documentation that support these assumptions.

16. Refer to the Application, Volume 2 of 10, Tab 12, the Testimony of Michael Marks. On page 4 of the testimony it is stated "Central to the program are two important provisions of the agreement between Western and the Commission." In the August 10, 1995 Order in Case No. 95-010, the Commission stated:

Thus, the Settlement merely establishes a framework for developing a program which will qualify for rate recovery under KRS 278.285. No specific programs or related cost recovery mechanism have been included. Therefore, the Commission makes no decision or findings of fact related to any portion of the DSM provisions included in the Settlement.²

² Case No. 95-010, August 10, 1995 Order, at 4.

In light of the Commission's statement in Case No. 95-010, explain in detail what agreement is being referenced in Mr. Marks Testimony on page 4.

17. Refer to the Marks Testimony, page 4. Concerning the Western Demand Side Management ("DSM") Collaborative:

a. Identify the members of the Western DSM Collaborative at its inception and as of June 30, 1999.

b. Provide copies of the bylaws or other documents that govern the operation of the Western DSM Collaborative.

c. Identify the chairperson of the Western DSM Collaborative as of June 30, 1999.

18. Refer to the Marks Testimony, page 8. For each of the measures ultimately selected for inclusion in the WKG CARES program, provide the results of the following DSM benefit cost test:

a. Total Resource Cost ("TRC").

- b. Utility Cost Test ("UCT").
- c. Ratepayer Impact Measure ("RIM").
- d. Participant Test ("PT").

19. Refer to the Marks Testimony, page 8. It is stated that the TRC test measures the costs and benefits of a conservation measure from the broadest perspective as it represents the net benefit to society. Isn't it correct that the TRC calculates the net impact on a utility and its customer base as a whole, instead of as a net benefit to society? If no, provide documentation to support the contention that the focus of the TRC is the net benefit to society.

-8-

20. Concerning the process and impact evaluations of WKG CARES:

a. Provide copies of the written process and impact evaluation reports. If no written report was provided, explain in detail why not.

b. Explain why the Applied Energy Group, Inc. ("AEG") was retained to perform these evaluations, given Mr. Marks association with AEG.

c. Explain in detail why actual customer savings were not developed as part of the impact evaluation.

d. Explain how the impacts of the weather experienced during the evaluation period were taken into consideration when pre- and post-treatment consumption values were determined.

e. Provide the workpapers showing the calculation of the TRC, UCT, RIM, and PT values for the impact evaluation.

f. Explain why the Societal Test is referenced on page 13 of the Marks Testimony instead of the TRC.

g. Provide the calculations and assumptions used to determine the environmental externality adder reflected in the Societal Test. Include an explanation as to why it was believed an environmental externality adder should have been included in the analysis.

h. Did the calculation of the TRC during the impact evaluation include a determination of Western's lost revenues associated with WKG CARES? If no, explain why the exclusion of lost revenues would not skew the results of the TRC.

21. On page 13 of the Marks Testimony is the statement that Western is not attempting to recover the revenue erosion caused by WKG CARES. However,

-9-

throughout its application, Western has cited one of the reasons for the proposed revenue increase has been the impact of residential energy conservation efforts. Is it correct that Western is attempting to recover these lost revenues through its general rate increase, rather than through the DSM tariff? Explain the response.

22. On page 14 of the Marks Testimony is a discussion of the benefit to Western's uncollectible accounts as a result of WKG CARES. If the actual impact on uncollectible accounts was not determined as part of the impact evaluation, explain in detail the basis for the assumption that uncollectible accounts were impacted favorably by WKG CARES.

23. Provide copies of all program materials associated with WKG CARES, including the program parameters established regarding allowable program measures.

24. Provide the following information concerning WKG CARES:

a. Describe the specific changes in customers' consumption patterns that Western is attempting to influence through WKG CARES.

b. Indicate whether WKG CARES is consistent with Western's most recent long-range integrated resource plan ("IRP"). Include copies of Western's most recent IRP.

c. Does WKG CARES result in any unreasonable prejudice or disadvantage to any class of customers? Explain the response.

d. Describe the extent to which WKG CARES programs are available, affordable, and useful to all customers.

-10-

25. Given the provisions of KRS 278.285, explain in detail why Western waited until the filing of this rate proceeding to recover the costs for WKG CARES, which began in 1996.

26. On page 18 of the Marks Testimony is the statement that Western is seeking to recover the costs associated with the 3-year pilot program which was approved by the Commission in the October 20, 1995 Order in Case No. 95-010. The October 20, 1995 Order approving the October 9, 1995 Settlement in Case No. 95-010 specifically stated that:

In all other respects this proposal mirrors the July 18, 1995 Settlement. Those provisions not addressed herein which were previously addressed and accepted in the Commission's Order of August 10, 1995 are approved without discussion.³

The pilot DSM program is not discussed in the October 20, 1995 Order, and the Commission stated in the August 10, 1995 Order that it made no decision or findings of fact related to the DSM provisions included in the Settlement. Explain in detail how Western has concluded that the Commission approved the 3-year pilot program.

27. Provide the following information concerning the costs associated with WKG CARES:

a. A schedule of the costs incurred during the 3-year pilot. These amounts should be identified using Western's account numbers, with account titles.
The amounts should be presented in total and fiscal year amounts.

³ Case No. 95-010, October 20, 1995 Order, at 3.

b. Were the pilot costs expensed or deferred by Western? If deferred, provide the Western detailed account numbers utilized and the basis for Western assuming deferral was appropriate.

c. A schedule of the costs proposed for the 1999 – 2002 period. These amounts should be identified using Western's account numbers, with account titles. The amounts should be presented in total and fiscal year amounts.

28. Provide an analysis that examines the completion percentage for capital budget projects. The analysis should be by individual capital project, by year, for fiscal years 1994 through 1998. The analysis should show the completion percentage (actual expenditure to budget amount) for each project in each fiscal year.

29. Refer to the Application, Volume 3 of 10, Tab 1, titled "FR 10(9)(b)," page 3 of 6, the forecasted test year capital budget.

a. Does Western assume that all the capital projects included on this schedule will be completed and included in rate base by the end of the forecasted test year?

b. If yes to part (a), explain in detail the basis for this assumption and why it is reasonable.

c. If no to part (a), provide a schedule showing the amounts from the capital budget that Western included in the rate base by the end of the forecasted test year.

30. Refer to the Application, Volume 3 of 10, Tab 7, titled "FR 10(9)(h)2." Provide all the assumptions used by Western to determine the amounts shown for the

-12-

base year, the forecasted year, and the 2000 through 2003 fiscal years. Include an explanation as to why each assumption is reasonable.

31. Refer to the Application, Volume 3 of 10, Tab 7, titled "FR 10(9)(h)4." Provide a revision of this schedule that fixes the forecasted required rate of return at 9.97 percent for each year shown.

Concerning Western Kentucky Gas Resources, Inc. ("WKG Resources"):

a. Describe the nature of WKG Resources' business operations.

b. Indicate when WKG Resources was established.

c. Indicate whether any of Western's assets, liabilities, capital, or personnel were transferred to WKG Resources.

33. Refer to the Application, Volume 3 of 10. Explain why the operating income amounts shown for the test year (January 2000 – December 2000) on the following schedules are not in agreement:

a. Tab 3, titled "FR 10(9)(d)."

b. Tab 7, titled "FR 10(9)(h)1 and FR 10(10)(i)1."

c. Tab 7, titled "FR 10(9)(h)4."

34. Refer to the Application, Volume 9 of 10, Tab 2, titled "FR 10(9)(u)," Schedules 1 and 2. Provide the following information for Schedule 1 and Schedule 2:

a. An explanation of how the amounts shown under the column titled "WKG \$" were determined. Include any supporting workpapers, assumptions, and other documentation.

-13-

b. The determination of the percentages shown under the column titled "WKG %." Include any supporting workpapers, assumptions, and other documentation.

c. For each Shared Service Unit listed on the schedule, an explanation of why the particular allocation methodology is reasonable for the allocation of the particular unit costs.

35. Refer to the Application, Volume 10 of 10, Tab 2, Schedule B-2.2.

a. For both the base and forecasted periods, provide a schedule that links the plant additions shown on Schedule B-2.2 with the capital budget projects shown in Volume 3 of 10, Tab 1, Exhibit DHD-1.

b. For the base period, provide the workpapers, analysis, assumptions, and other documentation that support the amounts shown for "Retirements" and "Transfers/Reclassifications." Include a description for each retirement or transfer/reclassification shown on the schedule.

c. For the forecasted period, explain why Western assumed there would be no retirements. Include in the explanation a discussion of why such an assumption is reasonable.

36. Refer to the Application, Volume 10 of 10, Tab 2, Schedule B-2.3, for both the base and forecasted periods.

a. Identify the business unit of Atmos referred to in the schedule as "Division 02 General Office."

-14-

b. Indicate whether the assignment of the Division 02 General Office plant is the result of a general allocation of plant by Atmos or whether Western contracted for these assets.

37. Refer to the Application, Volume 10 of 10, Tab 2, Schedule B-3, for both the base and forecasted periods. For each of the plant accounts listed below, provide a detailed explanation as to why the accumulated depreciation exceeds the plant investment. Also explain why accumulated depreciation in excess of plant investment should be included in the calculation of Western's rate base.

- a. Account No. 331.00 Production Gas Wells Equipment.
- b. Account No. 332.10 Field Lines.
- c. Account No. 332.20 Tributary Lines.
- d. Account No. 334.00 Field Meas. & Reg. Station Equipment.
- e. Account No. 351.20 Compression Station Equipment.
- f. Account No. 366.30 Other Structures (Transmission Plant).
- g. Account No. 375.10 Meas. & Reg. Station Equipment General.
- h. Account No. 399.00 Other Tangible Property (base period only).

i. Account No. 399.89 – Other Tangible Property – System Software (forecasted period only).

38. Refer to the Application, Volume 10 of 10, Tab 2, Schedule B-3.2. Each of the accounts listed below is shown on Schedule B-3.2 as being fully depreciated. Explain why Western has included a 12-month depreciation expense for each of these accounts, and why it is reasonable to include depreciation expense for a plant account that is fully depreciated per the company's books.

-15-

a. Account No. 331.00 – Production Gas Wells Equipment (base period only).

b. Account No. 332.10 – Field Lines (base period only).

c. Account No. 332.20 – Tributary Lines (base period only).

d. Account No. 334.00 – Field Meas. & Reg. Station Equipment (base period only).

e. Account No. 351.20 – Compression Station Equipment (base and forecasted periods).

f. Account No. 366.30 – Other Structures (base and forecasted periods).

g. Account No. 375.10 – Meas. & Reg. Station Equipment General (base and forecasted periods).

39. Refer to the Application, Volume 10 of 10, Tab 6, Schedule F-6. Provide the following information concerning the costs for the preparation of this case:

a. A detailed schedule of costs incurred to date. Include the date of the transaction, check number or other document reference, the vendor, amount, a description of the services performed, and the account number in which the expenditure was recorded. Indicate any costs incurred for this case during the base year. Include copies of invoices received from the vendors.

b. A detailed explanation of how the estimate shown on Schedule F-6 was determined, with all supporting workpapers and calculations.

c. Monthly updates of the actual costs incurred during the course of this proceeding, in the manner prescribed above. Updates will be due on September 3,

-16-

1999 (Western's due date for responses to additional data requests), November 1, 1999 (due date for requests to Intervenors), and 30 days after the date of the public hearing or the due date for final briefs, whichever date is later.

40. Refer to the Application, Volume 10 of 10, Tab 8, Schedule H.

a. Explain how the Uncollectible Accounts Expense percentage was determined. Include all supporting workpapers, assumptions, and calculations.

b. Provide a schedule showing Western's actual Uncollectible Accounts Expense percentage for the base period and the five previous fiscal years. Include all supporting workpapers, assumptions, and calculations.

c. Explain how the PSC Fees percentage was determined. Include all supporting workpapers, assumptions, and calculations.

41. Refer to the Application, Volume 10 of 10, Tab 8, Schedule I-1. In light of the revenue increase requested by Western, explain why Schedule I-1 shows Western is forecasted to experience net losses beginning in fiscal year 2001.

42. Refer to the Application, Volume 10 of 10, Tab 15, Summary of Factors schedule, referenced as "WP Factors." Concerning the calculation of the Residual Factor:

a. Explain why the Residual Factor is based on calendar year 1998 data.

b. Provide the Residual Factors for all other Atmos utility and nonutility business divisions.

-17-

c. Explain why it is reasonable to base the Residual Factor on the Western to Atmos ratios for Gross Direct PP&E, Average Number of Customers, and Total O&M Expense.

d. Explain the reference to the "Gray Book."

43. Refer to the Application, Volume 10 of 10, Tab 15, WP B-2, base period for Division 09, pages 3 and 4 of 4. For each of the column headings listed below, identify the source of information for the items contained in the column and provide the cross-reference to where that item can be found in the Application. If the item has not been provided in the Application, provide the source of information for the item in question.

- a. "WKG Direct Additions FY 99."
- b. "service prog. WKG adds April 1999."
- c. "WKG OH 98 carryover."
- d. "WKG OH FY 99."
- e. "02 OH FY 99."

44. Refer to the Application, Volume 10 of 10, Tab 15, WP B-2, forecasted period for Division 09, pages 3 and 4 of 4. For each of the column headings listed below, identify the source of information for the items contained in the column and provide the cross-reference to where that item can be found in the Application. If the item has not been provided in the Application, provide the source of information for the item information for the item source of information for the item source of information.

- a. "WKG Direct Additions FY2000."
- b. "WKG OH FY2000."

c. "02 OH FY2000."

d. "WKG Additions FY2001."

45. Refer to the Application, Volume 10 of 10, Tab 15, WP B-3.2, for both the base and forecasted periods, Division 09.

a. For the base period, explain the reason for the columns titled "Total Company Adjusted Jurisdiction – Reserve" and "Reserve Computation."

b. For the forecasted period, explain the reason for the columns titled "Division 09 13 Month Avg. – Reserve" and "Reserve Computation."

c. For both periods, explain why the "12 Month Expense" column includes a reference to 95.45 percent.

d. Provide the calculations used to determine the 95.45 percent.

e. For the forecasted period, explain the reference to "ELG" in the annual accrual rate column.

46. Refer to the Application, Volume 10 of 10, Tab 15, WP B-4.1, Working Capital Components, for both base and forecasted periods. Provide a breakdown showing all accounts and subaccounts contained in the Prepayments for each period. This breakdown should use the same accounting system as was used to show the detail for Materials and Supplies.

47. Refer to the Application, Volume 2 of 10, Tab 10, the Testimony of Thomas H. Petersen and Volume 9 of 10, Tab 3, the class cost-of-service study.

a. Provide the name of the model used for the cost-of-service study and specify whether this is an industry model or an in-house model. Provide a narrative description of the study and written operating procedures for running the model.

-19-

b. Do any of Western's affiliates use this model? If so, identify any concerns that have been expressed or modifications that have been made by other state regulatory commissions in cases in which this model has been presented in support of those affiliates' revenue allocation or rate design proposals.

c. Identify any other models that were considered by Western prior to selecting this model and whether the other models provided similar results and guidance. If other models were reviewed, why was this model considered superior? If no other models were reviewed, how can the Commission be assured that the guidance represented by this model is the most reasonable?

d. Class load factor is defined by Mr. Petersen as the average daily use divided by design day use or maximum daily contract level. Expand on this definition and explain how this factor is used in the model.

e. On page 3 of his testimony Mr. Petersen states that the rate classes selected use available data that captures the class differences in load characteristics. Can the available data be readily subdivided into groupings other than the five rate classes used in the study?

f. Mr. Petersen also states that the study was performed using fiscal year 1998 data and that results using the forecasted test period would follow a pattern similar to that of the historic cost-of-service analysis. Provide the results for the forecasted period and the appropriate workpapers in the same form as provided in the original filing (i.e., nineteen pages of model results and nine pages of supporting workpapers).

-20-

g. What are the results of the model for the historic test period normalized for weather using the proposed rates and the resulting revenue levels? What are the results of the model using the forecasted test year with the proposed rates and resulting revenue levels? Provide these results and the appropriate workpapers in the same form as provided in the original filing.

h. An adjustment for customer accounts was incorporated into the model. Explain why this was the only adjustment other than the adjustment to normalize weather incorporated into the model.

i. Notes are included in many pages of the study describing rules, actions or assumptions applied to the particular worksheet. Provide a narrative description of these rules and actions and the source of the assumptions.

48. Refer to Volume 1 of 10 of the Application, Tab 6, Proposed Tariffs, at Rate G-1 and G-2. Why is there no page reference for: (1) the Weather Normalization Adjustment; (2) the Gas Cost Adjustment Rider; and (3) the Margin Loss Recovery Rider? Does Western agree that including page references for each of these items would enable the tariff reader to better follow the tariffs without being required to constantly refer to the tariff index?

49. Refer to Volume 1 of 10 of the Application, Tab 6, Proposed Tariffs, at Sheet No. 26, Weather Normalization Adjustment Rider ("WNA").

a. The tariff shows an effective date of July 24, 1999, while page 37 of the Testimony of Gary L. Smith indicates the WNA would go into effect November 1, 2000. What is the correct effective date for the WNA?

-21-

b. The tariff states "Base loads and heating sensitivity factors will be determined by class and computed annually." Provide a detailed description of how base loads and heating sensitivity factors will be determined. Include example calculations if necessary.

c. Page 38 of the Testimony of Gary L. Smith sets out a proposed schedule for filing periodic reports with the Commission. Should the schedule and a description of these reports be included in the tariff? Why or why not?

d. At page 37 of the Testimony of Gary L. Smith he states that the proposed WNA mirrors that of Western's affiliate, United Cities Gas Company. Provide for the last three years (fiscal or calendar), a comparison of United Cities' residential revenues both with and without the impacts of its WNA.

50. Refer to Volume 1 of 10 of the Application, Tab 6, Proposed Tariffs, at Sheet No. 27, Gas Cost Adjustment Rider ("GCA").

a. Since the proposed GCA is zero-based, is it still necessary that Western file its GCA on a monthly basis?

b. Explain in detail why quarterly GCA filings, as submitted by Kentucky's other major LDCs, would not be sufficient to meet Western's gas cost recovery needs.

51. Refer to Volume 1 of 10 of the Application, Tab 6, Proposed Tariffs, at Sheet No. 27I, the Margin Loss Recovery Rider ("MLR").

a. The tariff does not specify this, but the Testimony of Gary L. Smith, at page 29, indicates that the proposal will shift lost revenues to sales customers. Why

-22-

is the proposed shift to sales customers only? Explain how the proposed 90 percent / 10 percent sharing between customers and the company was developed.

b. The MLR tariff does not specify the rate schedules to which it would be applied. Was this an oversight or was it done intentionally? Explain why an "Applicable" provision designating the appropriate rate schedules should not be included in the tariff.

c. How was it determined that the MLR should be adjusted on a semiannual basis, as opposed to monthly, quarterly, or annually?

52. Refer to Volume 1 of 10 of the Application, Tab 6, Proposed Tariffs, at Sheet No. 30d, Gas Research Institute ("GRI") R & D Rider.

a. The unit charge in the tariff is proposed to be billed "according to the transition schedule outlined in the pipeline's tariffs." Provide the transition schedules for each of the pipelines serving Western.

b. What was Western's "level of contribution per Mcf" as of December 31, 1998?

c. Why is the proposed tariff rider to be "applicable to all gas transported by the Company other than Rate T-3 and T-4 Carriage Service"?

d. Does "all gas transported" mean sales and transportation volumes or transportation volumes only? Explain why it should be one or the other.

e. Identify any other methods of GRI cost recovery that Western considered and explain why those methods were not selected.

f. Identify the benefits that accrue to Western's ratepayers from Western's funding of GRI's R & D activities.

-23-

53. Refer to Volume 1 of 10 of the Application, Tab 6, Proposed Tariffs, at Sheet No. 49, Alternative Receipt Point Service. Provide cost support for the proposed distribution charge of \$.10 per Mcf.

54. Refer to Volume 1 of 10 of the Application, Tab 6, Proposed Tariffs, at Sheet No. 51, Special Charges.

a. Even though rate schedules G-1, G-2, LVS-1, LVS-2, T-3, and T-4 all include sections headed "Late Payment Charge," Sheet No. 51 and the Testimony of Gary L. Smith, indicate the proposed Late Payment Charge of 5 percent will be applied only to Rate G-1 sales service. Explain the reasoning for applying the 5 percent charge to only one rate schedule.

b. What other local gas distribution companies is Western aware of that have a late payment charge which is applicable to only one of several rate schedules?

c. What is the purpose of the Late Payment Charge section in the tariffs, other than Rate G-1, identified in part (a) above?

d. Provide the amount of annual revenue that Western expects the Late Payment Charge to generate. Include supporting calculations and sufficient narrative explanation to explain the calculations.

55. Refer to Volume 1 of 10 of the Application, Tab 6, Proposed Tariffs, at Sheet No. 30a, Demand-Side Management Cost Recovery Mechanism, and the Testimony of Gary L. Smith and Michael Marks on the same subject.

a. Explain why the WKG CARES program is proposed for another three years, as opposed to one or two years, or on a permanent basis.

-24-

b. What consideration, if any, was given to implementing the program on a permanent basis?

c. Are the non-permanent nature of the proposed three-year program and the proposal to recover costs for the three-year pilot program the only reasons for proposing a surcharge mechanism rather than including the prospective costs for recovery through base rates? If there are other reasons for using a surcharge mechanism, explain them in detail.

d. The tariff itself does not specifically mention the annual filing with the Commission discussed in the Testimony of Michael Marks. Was this an oversight or intentional? Provide any reasons why Western would be opposed to including a statement in the tariff identifying and describing the annual filings proposed by Mr. Marks.

56. Refer to Volume 1 of 10 of the Application, Tab 6, Proposed Tariffs, at Sheet No. 67, Rules and Regulations, Part (I), Premises charge and the Testimony of Daniel Ives.

a. The proposed Premises Charge is only for the residential customer class and Mr. Ives discusses this on page 11 of his testimony. Even though 84 percent of customer growth is in the residential class, explain why Western would choose not to address the same problem of incremental versus embedded costs for the remaining one-sixth of its customer growth occurring in other customer classes.

b. On page 10 of his testimony Mr. Ives discusses the proposed fifteen-year recovery period for the Premises Charge. Explain why a shorter life, based

-25-

on the Internal Revenue Service's MACRS system, is appropriate for per books accounting by a regulated entity.

c. Provide support for Mr. Ives statement that "a fifteen-year recovery period is consistent with what is being used elsewhere in the industry."

57. Refer to Volume 2 of 10 of the Application, the Testimony of David H. Doggette, pages 12-14, and Exhibit DHD-2.

a. Some of the service charge studies discussed by Mr. Doggette and included in Exhibit DHD-2 covered Western's fiscal year 1998. Identify any studies, other than the April 1999 survey of banks, that cover a period other than fiscal year 1998.

b. Does the summary analysis on Exhibit DHD-2, page 1 of 8, at Column 3, represent the actual number of orders charged for fiscal year 1998, or does it represent the actual number of orders for any period? Explain what Column 3 represents.

c. Explain why Exhibit DHD-2, page 1 of 8, does not include all the special charges included in Western's proposed tariffs at Sheet No. 51.

d. What impact, if any, do the proposed revenues in Exhibit DHD-2, page 1 of 8, Column 15, or the increase in revenues in Column 16 have on the increase in Other Revenues derived from comparing Exhibits GLS-7 and GLS-1 of the Testimony of Gary L. Smith?

58. Refer to Volume 2 of 10 of the Application, Tab 11, the Testimony of Gary L. Smith at pages 4-12.

-26-

a. Provide the historical data for the three-year period referred to by Mr. Smith on page 6 of his testimony including: (1) the number of customers by customer class; (2) sales volumes, by customer class, adjusted for normal weather; (3) annual changes in volumes for industrial sales and transportation deliveries; and (4) the level of volume migration from sales to transportation volumes.

b. Provide detailed calculations showing the derivation of the adjustment for industrial sales and transportation deliveries referred to by Mr. Smith on page 8, lines 25-28 of his testimony.

c. On page 7, lines 5-6 of his testimony, Mr. Smith refers to "historical growth rates averaging slightly less than 2,000 for the three prior years." To what three years does Mr. Smith refer? How does this statement reconcile with the table on page 12 of his testimony that reflects an average of at least 2,156 for any three-year period included therein?

d. For each year in the five-year period covered in the table on page 12 of Mr. Smith's testimony, provide a breakdown of growth in residential customers between "new construction" and "on-main conversions."

59. Refer to Volume 2 of 10 of the Application, Tab 11, the Testimony of Gary L. Smith, and Exhibits GLS-1 through GLS-7.

a. Exhibit GLS-3 summarizes the impact of industrial contract adjustments and volume changes. Provide supporting workpapers and narrative descriptions of these changes, by customer (the actual identity of the customers may be omitted and reference made by numbers and/or letters, i.e., – customer 1a).

-27-

b. Exhibit GLS-6 summarizes the volume adjustment for declining customer usage. Provide supporting workpapers and narrative descriptions of the calculations made to derive the adjustment.

c. Exhibit GLS-1 shows revenues at current rates reflecting all adjustments to derive test year volumes while Exhibit GLS-7 shows revenues at proposed rates reflecting the same adjustments. Are there any differences in the two exhibits other than: (1) different rates / margins; (2) Alternative Receipt Point volumes and revenues; (3) the amounts shown for Additional Contract Reformation; and (4) the amounts shown for Other Revenue? If yes, identify and explain those differences.

60. Refer to Volume 2 of 10 of the Application, Tab 8, the Testimony of Dr. Donald A. Murry.

a. Page 6, lines 20 through 22, indicates that the Commission should make allowances for the added risk of the inclusion of short-term debt in the capital structure. In what way should the Commission make such an allowance?

b. Page 5, beginning on line 17, indicates that Atmos raises capital for Western's operations. Is this beneficial to Western? If so, should the Commission make allowances for Western's ability to access this capital source? Would it be more risky for Western if it had to raise capital itself for its operations?

c. Provide an explanation of why each company in the group of comparative companies is considered to be a viable comparison to Atmos.

d. Provide the most recently approved return on equity for each of the comparable companies, along with the date each was approved.

-28-

e. Do any of the comparable companies use a weather normalization adjustment, a premises charge, or a margin loss recovery mechanism to stabilize their earnings? If so, which ones?

f. What effect would the implementation of a weather normalization adjustment have on Western's financial risk?

g. What effect would the implementation of a premises charge have on Western's financial risk?

h. What effect would a margin loss recovery mechanism have on Western's financial risk?

61. Refer to Volume 10 of 10 of the Application, Tab 4, Summary of Jurisdictional Adjustments by Major Accounts, Schedule D-1, Sheet 1 of 4 and Schedule D-2.1, Sheets 1 and 2.

a. Provide supporting workpapers for the revenue and gas purchases adjustments on these schedules, or reference where provided if already included in the application or in response to other requests contained in this Order.

b. Provide narrative descriptions of the workpapers provided in response to part (a) above.

c. Explain in detail the reasons for the proposed reductions to Service Revenues and Other Gas Service Revenues.

62. Refer to Volume 2 of 10 of the Application, Tab 1, the Testimony of Conrad E. Gruber, specifically, the table on page 11 which denotes Western's operating and maintenance cost efficiencies in comparison to industry averages.

-29-

a. Provide copies of the A.G. Edwards study cited and a detailed schedule of Western's operating and maintenance expenses, identified by fiscal year ("FY"), used to determine Western's Costs per Meter as shown in the table.

b. Provide a detailed schedule of Western's gas utility employees by
job classification for the period used to determine Western's number of employees per
1,000 customers as shown in the table.

c. Provide documentation used for external reporting purposes to substantiate the number of meters in service and thousands of customers served for the period represented by the table.

63. Refer to Volume 2 of 10 of the Application, Tab 1, the Testimony of Conrad E. Gruber, specifically page 16, which indicates that installation of the Oracle system was expected to be completed by July 1999, and refers to the series of IT projects that are essential for Y2K readiness.

a. Has the Oracle system been implemented and tested for Y2K readiness?

b. Provide a description of the other projects scheduled for completion prior to the end of 1999 to assure Western's customers of Y2K readiness.

c. Identify any costs associated with Western's Y2K readiness that are included in the base year or the forecasted year.

64. Refer to Volume 2 of 10 of the Application, Tab 6, the Testimony of Donald P. Burman, and Volume 4 of 10, Tab 4, Filing Requirement 10(9)(m).

-30-

a. Explain whether FR 10(9)(m) is a complete conversion table to NARUC accounts as presented for operating revenue and expenses in Volume 10 of 10, FR 10(10)(c), Schedule C-2.1 and Schedule C-2.2.

b. Are the references in the "detail" sections of this exhibit to NARUC accounts the same as the accounts used to file the annual FERC Form No. 2 with the Commission?

65. Refer to Volume 2 of 10 of the Application, Tab 4, the Testimony of Betty L. Adams. Does Western have a conversion table that converts its current chart of accounts for general ledger purposes to the NARUC accounts as presented for operating revenue and expenses in Volume 10, FR 10(10)(c), Schedule C-2.1 and Schedule C-2.2? If yes, provide the conversion table.

66. Are the NARUC account numbers referenced in Ms. Adams' testimony at page 5, lines 5 through 23, the same as the account numbers used to determine the account balances for the annual FERC Form No. 2 filed with the Commission? If no, is there a conversion table that converts from NARUC accounts, to FERC accounts, to Western's general ledger chart of accounts?

67. Refer to Ms. Adams' testimony.

a. Are the operating revenue and expenses in Volume 10, FR 10(10)(c), Schedule C-2.1 and Schedule C-2.2 according to NARUC accounts available according to Western's current general ledger chart of accounts? Resubmit these schedules according to the current chart of accounts.

b. Does Western have operating revenue and expenses in the detailed manner described above according to its current chart of accounts which

-31-

compare budgeted amounts to actual year-to-date totals for the FY 1998, 1997, 1996, 1995 and 1994?

c. If yes to part (a) provide the budget to actual comparison for those years. Provide a brief explanation for accounts with a budget to actual variance of 5 percent or greater.

d. Resubmit Volume 10, FR 10(10)(d), the summary of jurisdictional adjustments, according to Western's general ledger chart of accounts.

e. Resubmit Volume 9, FR 10(9)(d) for the base year and test year according to Western's general ledger chart of accounts.

f. Are the jurisdictional adjustments in Volume 10, FR 10(10)(d) and FR 10(9)(d) for the base year and test year by account as Western would submit to the Commission in a FERC Form No. 2 annual report? If not, resubmit these schedules according to the FERC accounts.

g. Are the operating revenue and expenses in Volume 10, FR 10(10)(c), Schedule C-2.1 and Schedule C-2.2 according to FERC Form No. 2 as filed annually with the Commission available? If no, resubmit these schedules according to the FERC accounts.

68. Refer to Volume 2 of 10 of the Application, Tab 4, the Testimony of Betty L. Adams. On page 6, line 24, a table is presented to point out Western's overall operating and maintenance ("O & M") budgeting effectiveness for FY 1994 through 1998. Provide the source documents from which this table was created, with amounts detailed according to Western's general ledger chart of accounts.

-32-

69. On page 8, line 22 of Ms. Adams' testimony there is a discussion of the increase in the forecasted test period labor costs that is attributed to "the planned filling of a number of vacant employee positions and... a four percent wage increase."

a. Provide the number of vacant employee positions, by job classification, that Western intends to fill.

b. Provide the actual employee positions, by job classification, and provide the actual period used to determine the number of vacant positions necessary.

c. Does Western have both union and non-union employees? If there are union employees, provide the job classifications and a copy of the union contract.

d. Provide a schedule showing the derivation of the proposed 4 percent wage increase along with an explanation of how wage increases are determined for management, union and non-union employees.

e. Provide a list of the planned positions being filled that were previously held by contractors, by job classification, and break down the list further by identifying contractors performing construction activities, not operational duties.

f. Identify how many years the contractors have performed construction activities and whether these activities are now being considered in the planned construction budget.

g. If the planned positions are replacing contractors that have been performing construction services, and construction services with contractors are included in the planned construction budget, provide a detailed description of the expected benefits from the addition of the planned operating and maintenance employees that Western's customers will receive that they have not been receiving.

-33-

70. Resubmit Volume 9, FR 10(9)(h)9 for the years 2000 through 2003 with employees separated by job classifications. Also, provide a comparison of budgeted to actual number of employees for FY 1994 through 1998. Provide references in each of these schedules to the employee numbers by Western's chart of account number, NARUC account, and FERC account. Explain any increases or decreases of 5 percent or more in employee numbers from year to year.

71. On page 9, lines 10 through 17 of Ms. Adams' testimony is a discussion of the increase in the forecasted test period communications expense that is attributed to increased use of mobile data terminals ("MDTs") and higher cellular usage. Provide a schedule showing the cost amounts, MDT units acquired and plant accounts charged since the project inception, showing the years in which the investments in MDTs were made.

a. Does Western have contracts for communications expenses, such as long distance and cellular usage?

b. If yes, provide the old and new contracts and an explanation of why the usage was deemed to increase in the forecasted period considering any contractual changes or changes in services used.

c. Give a quantified determination of how this increase was estimated and whether the costs are under contract or not.

72. Refer to Ms. Adams' testimony. Provide an explanation, complete with a quantified determination, of how the increase in uncollectible write-offs was calculated for the forecasted test period.

-34-

a. Provide the accounts receivable aging schedules for the last two fiscal years.

b. Explain why under-budgeted write-offs for the six-month period in FY 1999 provided sufficient reason to adjust the forecasted period.

c. Provide an accounts receivable aging schedule for the last month of actual results in the test period.

d. Provide an account analysis of Western's reserve for uncollectibles comparing the actual charge-offs with the year to date provision for uncollectibles (expense) for the six-month period of actual results in the FY 1999 that comprises part of the base year. If different, schedule Western's monthly provision for uncollectibles (expense) in comparison to the year-to-date ("YTD") budget.

e. Provide a comparison of the YTD budget to actual provision for uncollectibles (expense) for the last two fiscal years.

f. Provide a comparison of the reserve for uncollectibles to accounts receivable for FY 1997, FY 1998 and the end of the six-month actual period included in the base year.

73. In Volume 10 of 10 of the Application, Schedule D2.2, Sheet 2 of 2, "ADJ 7" includes the "transfer of Human Resources expenses from Shared Services of \$67,700."

a. Provide a list of the job(s) transferred, an explanation of the previous job(s) function with Shared Services, and an explanation of the job(s) function with Western.

-35-

b. Did similar job reclassifications occur with Western's gas distribution affiliates? If yes, give an explanation of the reasoning. If no, why not?

74. In Volume 10 of 10 of the Application, Schedule D2.3, Sheet 1 of 1, "ADJ 2" is described as an adjustment to "reflect the amortization of the PSC Assessment for 1997 paid in 1999." Provide a detailed explanation and calculations to support the determination of this adjustment.

75. Refer to Ms. Adams' testimony at page 10, line 6, where adjustments to Western's FY 1999 budget decreasing O & M expenses and increasing Shared Services expenses are discussed in regard to the utilization of the new "Customer Support Center in Amarillo, Texas." Provide quantified schedules, referenced to Western's chart of accounts, with explanations of the cost shifts discussed, i.e., decreased number of employees by job classification to Western, new charges by Shared Services.

76. Refer to Ms. Adams' testimony at page 10, line 17, where adjustments to Western's FY 1999 budget decreasing O & M expenses and increasing Shared Services expenses are discussed in regard to the United Cities Gas merger. Provide quantified schedules, referenced to Western's chart of accounts, with explanations of the cost shifts discussed, i.e., decreased number of employees by job classification to Western, new charges by Shared Services.

77. Refer to Ms. Adams' testimony at page 10, line 22, where adjustments to Western's FY 1999 budget from non-labor savings in the "proposed Gas Meter Performance Control Program" are referenced. Provide a detailed schedule with a calculation showing how these savings were determined.

-36-

78. Refer to Ms. Adams' testimony at page 10, line 22, where adjustments to Western's FY 1999 budget from transferring the rates and regulatory vice-president position from the Shared Services staff is mentioned. Did similar job reclassifications occur with Western's gas distribution affiliates? If yes, give an explanation of the reasoning. If no, why not?

79. Refer to Ms. Adams' testimony at page 13, lines 15 through 18, where the adjustments to Western's "Shared Services" forecasted budget includes an adjustment for a "decrease in the labor portion of Atmos' administrative and general overheads, which is a capital expense."

a. Provide a description of these costs and a schedule of these costs, with reference to the accounts charged in the Shared Services forecasted budget.

b. Explain how these costs represent a capital expense as Atmos administrative and general overhead, but upon reclassification as a Shared Service expense become an operating and maintenance expense subject to recovery through customers' rates.

c. Were these costs similarly reclassified for Shared Services charges to Western's gas distribution affiliates? If yes, give an explanation of the reasoning. If no, why not?

80. Provide the basis for the beginning of Western's FY 1999 budgeting process in quantitative form, i.e., prior year's budget, prior year's actual results, by Western's current chart of accounts.

-37-

a. Provide a listing of the known adjustments made at the beginning of Western's budgetary process, i.e., increase or decrease in employee numbers, reductions for expenses non-recurring in nature.

b. Provide a listing of the known adjustments made at the major decision-points of Western's budgetary process, i.e., increase or decrease in employee numbers, reductions for expenses non-recurring in nature, deferring or accelerating maintenance projects.

81. Provide the basis for the beginning of the Western's "Shared Services" FY 1999 budgeting process in quantitative form, i.e., prior year's budget, prior year's actual results, prior year service adjusted by changes in affiliated charges, by Western's current chart of accounts.

a. Provide a listing of the known adjustments made at the beginning of Shared Services' budgetary process, i.e., increase or decrease in employee numbers, reductions for expenses non-recurring in nature.

b. Provide a listing of the known adjustments made at the major decision-points of Shared Services' budgetary process, i.e., increase or decrease in employee numbers, reductions for expenses non-recurring in nature, deferring or accelerating projects.

82. Refer to Volume 2 of 10 of the Application, Tab 4, the Testimony of Betty M. Adams, page 3, which shows her sponsoring FR 10(10)(d) and FR 10(10)(f) and Volume 10 of 10, Tabs 4 and 6, which include FR 10(10)(d) and FR 10(10)(f). Provide a schedule of the rate-making adjustments for country club dues, promotional advertising and sales expenses, employee party and gift expenses and pension expense in

-38-

reference to the "Detailed Adjustments" in Volume 10, FR 10(10)(d)2.1, FR 10(10)(d)2.2, and FR 10(10)(d)2.3, as applicable.

a. Provide the location of the above adjustments in FR 10(10)(d)1, with specific account number references.

b. Provide the location of the above adjustments in FR 10(10)(d)1, with specific account number references to the same schedule as previously requested to be resubmitted in Western's general ledger account number form.

83. Refer to Volume 2 of 10 of the Application, Tabs 2 and 4, the testimony of R. Earl Fischer and Betty L. Adams. To some extent, both witnesses address the issue of direct billed intercompany services and allocated service costs from Atmos's Shared Services Business Unit ("Shared Services") to Western and other Atmos business units.

a. Provide a detailed operating statement for Shared Services for FY 1997, 1998, and year to date FY 1999 actual, with detailed intercompany revenue accounts to reflect similar services provided by Shared Services for the Atmos operating divisions. Specifically, reference Shared Services' revenue accounts to Western's expense accounts by current chart of accounts. Provide the FY 1999 Shared Services budget and provide updates of FY 1999 actual data as it becomes available.

b. Provide contractual agreements between Western and Shared Services since 1997, with a schedule of expected service cost increases that are included in the determination of the base year or the forecasted year. Reference these service costs to Western's expense accounts by current chart of accounts.

-39-

c. Provide Shared Services' cost allocation manual, if available. If none is available, describe the cost allocation process for the portion of the cost not directly billed to Western and provide copies of all internal policies and procedures relating to the allocation of costs from Shared Services to Western.

Done at Frankfort, Kentucky, this 16th day of July, 1999.

By the Commission

ATTEST:

itive



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KENTUCKY 40602 WWW.psc.state.ky.us (502) 564-3940 Fax (502) 564-1582

Paul E. Patton Covernor Ronald B. McCloud, Secretary Public Protection and Regulation Cabinet

Helen Helton Executive Director Public Service Commission

July 15, 1999

Mr. Jack Hughes 124 West Todd Street Frankfort, Kentucky 40601

Re: Case No. 99-070

Dear Mr. Hughes:

Pursuant to our telephone conversations earlier this week, the following is a list of the documents that Commission Staff would appreciate Western filing electronically:

The Cost of Service Study contained in Volume 9, Tab 3,

The Schedules contained in Volume 3, and

The Schedules contained in Volume 10 with all supporting workpapers contained in Volume 10.

The preferred format is Excel. If Western is unable to provide the information in this format, please advise.

Should you have any questions regarding this matter, please do not hesitate to contact me.

Sincerely,

inita X. Mitchell

Anita L. Mitchell Staff Attorney

alm

cc All Parties of Record Main Case File



AN EQUAL OPPORTUNITY EMPLOYER M/F/D


COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

July 2, 1999

To: All parties of record

RE: Case No. 99-070

We enclose one attested copy of the Commission's Order in the above case.

Sincerely,

Stephanie Rell

Secretary of the Commission

SB/sa Enclosure William J. Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY 42303 1312

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hutchinson Kinney 115 East Second Street Owensboro, KY 42303

Honorable John N. Hughes Attorney for Western KY Gas 124 West Todd Street Frankfort, KY 40601

Mr. Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265

Honorable David E. Spenard Assistant Attorney General 1024 Capital Center Drive Frankfort, KY 40601 8204

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

)

)

)

In the Matter of:

THE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN ADJUSTMENT OF RATES

CASE NO. 99-070

<u>ORDER</u>

On May 28, 1999, Western Kentucky Gas Company ("Western") submitted an application to the Commission for a rate adjustment. Having noted deficiencies in the application, the Commission, by Order issued June 16, 1999, rejected Western's application and ordered Western to refile its proposed tariff with an effective date no sooner than 30 days from the date of refiling. On June 23, 1999, Western filed a Motion for Reconsideration. It included with its motion the documents needed to cure the deficiencies as well as a new tariff with an effective date of July 24, 1999. Western requested that the notice and effective date originally proposed be reinstated, that the documents included with the motion be determined by the Commission to fulfill the filing requirements, and that it be permitted to use fiscal year data.

The Commission finds that the documents submitted with Western's motion for reconsideration satisfy the minimum filing requirements set by Commission regulation and cure the deficiencies noted in the Commission's Order of June 16, 1999. An application is not "filed" until all filing requirements are met. Therefore, the Commission does not consider Western to have filed its application until June 23, 1999.

The filing requirements for a rate adjustment for a forecasted test year are clearly set out in Commission Regulation 807 KAR 5:001. The Commission does not find Western's initial failure to comply with these filing requirements sufficient grounds to grant Western's request that the effective date of its rates be reinstated to the date originally proposed. The Commission does, however, find that the additional expense to republish notices justifies granting Western a waiver in regard to 807 KAR 5:001, Section 10(3) and (4); consequently, Western need not republish public notices. Western should file an affidavit from the publisher verifying that notice was published, including the dates of the publication, and attaching a copy of the published notice no later than 45 days from May 28, 1999, the date the incomplete application was submitted to the Commission.

Western's motion demonstrates confusion as to whether the Commission will accept fiscal year data rather than calendar year data. In its Order of June 16, 1999, the Commission found that Western had not provided adequate justification for its failure to comply with 807 KAR 5:001, Section 10(9)(h)(4). 807 KAR 5:001, Section 14, provides for deviations only in "special cases, for good cause shown." The Commission finds acceptable Western's request to use fiscal year, rather than calendar year, data.

The Commission further finds that, pursuant to KRS 278.190, further proceedings are necessary in order to determine the reasonableness of the proposed rates and that such proceedings cannot be completed prior to the proposed effective date of July 24, 1999. Therefore, Western's proposed rates should be suspended for a period of six months.

-2-

Additionally, the Commission finds that a procedural schedule should be established for this case to the extent it is possible to do so at this time.

The Commission, having been sufficiently advised, HEREBY ORDERS that:

1. Western's application is filed as of June 23, 1999, the date all filing deficiencies were cured.

2. Western's request that the effective date originally proposed be reinstated is denied, and the newly filed proposed tariff with the effective date of July 24, 1999 is incorporated into Western's application as required by 807 KAR 5:001, Section 10(1)(b)(7).

3. The proposed rates are suspended for six months from July 24, 1999 up to and including January 23, 2000.

4. Nothing contained herein shall prevent the Commission from entering a final decision in this case prior to the termination of the suspension period.

5. Western is granted a waiver from the public notice requirements of 807 KAR 5:001, Section 10(3) and (4), to the extent it met these requirements when it originally submitted its application on May 28, 1999.

6. Western shall file an affidavit of publication from the publisher verifying the notice was published, including the dates of the publication, and attaching a copy of the published notice no later than 45 days from May 28, 1999.

7. Western shall be permitted to use fiscal year data.

8. The procedural schedule set forth in Appendix A, attached hereto and incorporated herein, shall be followed in this case.

-3-

Done at Frankfort, Kentucky, this 2nd day of July, 1999.

By the Commission

ATTEST:

Executive Directo

APPENDIX A

APPENDIX TO THE ORDER OF THE KENTUCKY PUBLIC SERVICE COMMISSION IN CASE NO. 99-070 DATED JULY 2, 1999

Staff's initial request for information to Western shall be filed no later than	07/16/99
Western shall file with the Commission its responses to the initial requests for information no later than	07/30/99
Additional requests for information to Western shall be filed no later than	08/19/99
Western shall file its responses to the additional requests for information no later than	09/03/99
All supplemental requests for information to Western shall be filed no later than	09/20/99
Western shall file with the Commission its responses to the requests for information no later than	10/04/99
Intervenor testimony, if any, shall be filed with the Commission in verified prepared form no later than	10/18/99
All requests for information to Intervenors shall be filed no later than	11/01/99
Intervenors shall file with the Commission responses to requests for information no later than	11/15/99
Last day for Western to publish notice of hearing date	*
Public hearing is to begin at 9:00 a.m., Eastern Standard Time, in Hearing Room 1 of the Commission's offices at 730 Schenkel Lane, Frankfort, Kentucky for the purpose of cross-examination of witnesses of Western, cross-examination of witnesses of intervenors, and	
the presentation of rebuttal testimony, if any	*
Written briefs shall be filed with the Commission no later than	*

* These dates will be established at a later date.



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

June 16, 1999

To: All parties of record

RE: Case No. 99-070

1.

We enclose one attested copy of the Commission's Order in the above case.

stephal Bul

Stephanie Bell Secretary of the Commission

SB/hv Enclosure William J. Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY 42303 1312

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hytchinson Kinney 115 East Second Street Owensboro, KY 42303

Honorable John N. Hughes Attorney for Western KY Gas 124 West Todd Street Frankfort, KY 40601

Mr. Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265

Honorable David E. Spenard Assistant Attorney General 1024 Capital Center Drive Frankfort, KY 40601 8204

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN ADJUSTMENT OF RATES

CASE NO. 99-070

ORDER

)

On May 28, 1999, Western Kentucky Gas Company ("Western") filed an application with the Commission for a rate adjustment. In its filing, Western requested, pursuant to 807 KAR 5:001, Section 10(11)(a-c), a waiver from the requirements of 807 KAR 5:001, Section 10(9)(b), Section 10(9)(f), Section 10(9)(g), Section 10(9)(h), Section 10(10)(k) and Section 10(10)(i) and a blanket deviation from any rule, regulation or other requirement that might otherwise delay or impede the review and approval of its application pursuant to 807 KAR 5:006, Section 27.

Having reviewed the filing and being otherwise sufficiently advised, the Commission finds that:

1. For good cause shown by a utility, the Commission has the authority to grant the deviations requested.

2. Western's request for waiver of the filing requirements of 807 KAR 5:001, Section 10(9)(b), Section 10(9)(f), Section 10(9)(g), Section 10(9)(h), Section 10(10)(k) and (10)(10)(i), states that it would be more efficient for Western to provide fiscal year data versus calendar year data where calendar year data is requested. The Commission finds that the information filed by Western is sufficient to enable the Commission to review adequately Western's application with the exception of the information required under Section 10(9)(h)(4). Therefore, Western's request for waiver of the filing requirements of 807 KAR 5:001, Section 10(9)(b), Section 10(9)(f), Section 10(9)(f), Section 10(9)(g), Section 10(9)(h) with the exception of subsection (4), Section 10(10)(k) and Section 10(10)(i), should be granted.

¢

3. 807 KAR 5:001, Section 10(9), requires any utility requesting a general adjustment in rates supported by a fully forecasted test period to provide certain information to the Commission or a statement explaining why the information does not exist and is not applicable to the utility's application. Section 10(9)(h)(4) requires the financial forecast corresponding to each of the 3 forecasted years included in the capital construction budget to include the revenue requirements necessary to support the forecasted rate of return.

4. The information required by 807 KAR 5:001, Section 10(9)(h)(4), is critical to the Commission's effective review of Western's filing, and the operating income statement cited in the application as satisfying this requirement does not present the revenue requirements necessary to support the forecasted rate of return over the 3 forecasted years.

5. The request by Western to use a fiscal year rather than calendar year does not provide sufficient grounds to grant a waiver of the filing requirements of 807 KAR 5:001, Section 10(9)(h)(4).

6. Western's request for a waiver of the requirements of 807 KAR 5:001, Section 10(9)(h)(4), should be denied.

-2-

7. 807 KAR 5:001, Section 10(9)(i), requires the utility requesting a general adjustment in rates supported by a fully forecasted test period to file the most recent Federal Energy Regulatory Commission audit report or a statement explaining why the required information does not exist or is not applicable to the utility's application. Western's application states at page 9 that 807 KAR 5:001, Section 10(9)(i), is "N/A," but fails to provide an explanation of why it is inapplicable.

8. Western did not request a deviation from 807 KAR 5:001, Section 10(9)(i).

9. Western should be required to file the information required by 807 KAR 5:001, Section 10(9)(i), or provide an explanation why the information is inapplicable to Western.

10. The deviation provision of Commission Regulation 807 KAR 5:006, Section 27, applies only to the rules and requirements of 807 KAR 5:006 and cannot be used for a deviation from the filing requirements of 807 KAR 5:001 and used as such should be denied.

11. Since the information required by 807 KAR 5:001, Section 10(9)(h)(4) and Section 10(9)(i), is not included in Western's application filed May 28, 1999, the application should be rejected and the statutory time period in which the Commission must rule on this matter should not commence until the required information is filed with the Commission.

12. The proposed tariff with the effective date of July 1, 1999 should be considered void and Western should be required to refile a proposed tariff providing an effective date no sooner than 30 days from the date it is refiled.

-3-

IT IS THEREFORE ORDERED that:

1. The application filed by Western on May 28, 1999 is rejected and the statutory time period in which the Commission is required to rule shall not commence until the required information is filed with the Commission.

2. Western's request for a waiver of the filing requirements of 807 KAR 5:001, Section 10(9)(b), Section 10(9)(f), Section 10(9)(g), Section 10(9)(h) with the exception of subsection (4), Section 10(10)(k) and Section 10(10)(i), is granted.

3. Western's request for a waiver of the filing requirements of 807 KAR 5:001, Section 10 (9)(h)(4), is denied.

4. Western's request for deviation from any rule, regulation or requirement under 807 KAR 5:006, Section 27, is not applicable to the deficiencies cited under 807 KAR 5:001 and is therefore denied.

5. The proposed tariff filed with Western's application on May 28, 1999 with the effective date of July 1, 1999 is void and Western shall refile its proposed tariff with the Commission with an effective date no sooner than 30 days from the date the proposed tariff is refiled.

-4-

Done at Frankfort, Kentucky, this 16th day of June, 1999.

By the Commission

ATTEST:

utive Direc Exe

JOHN N. HUGHES Attorney at Law Professional Service Corporation 124 WEST TODD STREET FRANKFORT, KENTUCKY 40601

Telephone: (502) 227-7270

June 16, 1999



Telecopier:

(502) 875-7059

Ms. Helen Helton Executive Director Kentucky Public Service Commission 730 Schenkel Lane Frankfort, KY 40602

Re: Case No. 99-070

Dear Ms. Helton:

It appears that some copies of the application filed by Western Kentucky Gas Company on May 28, 1999, may be missing three pages in volume 1, tab 6. To assure that all copies are complete, eleven copies of sheets 50, 66 and 67 are attached.

Thank you for your assistance and if there are any questions about this, please contact me.

Sincerely, Yours A. sheather John N. Hughes

Attorney for Western Kentucky Gas Company

cc: Attorney General

WESTERN KENTUCKY GAS COMPANY

	Alternate Receipt Point Service
	Rate T-5
l.	Imbalances
	a) Volumes delivered by the Company under the Alternate Receipt Points ervice may be subjected to imbalance restrictions additional to those specified in the transportation (Bate T-2) or carriage (Bate T-3 or Bate T-4) tariffs
	b) Banking or Porking allowenges for volumes delivered under the Alternate Descint
	Point service may be limited or restricted altogether, at the Company's sole judgment.
	Terms and Conditions
	a) Volumes under the Alternate Receipt Point service are received for redelivery by the Company on a strictly interruptible basis.
	b) The Company is not responsible for any costs incurred by the customer in its arrangement for gas supply or capacity to the Alternate Receipt Point.
	c) Specific details relating to volume, receipt point(s) and similar matters shall be covered
	by a separate written contract or amendment with the customer.
	 d) Other than provisions referenced herein, or as more specifically set forth in the contract or amendment with the customer, all provisions of the customer's transportation (Rate T-2) or carriage (Rate T-3 or Rate T-4) tariffs shall apply.

ISSUED BY: William J. Senter

Vice President – Rates & Regulatory Affairs



ISSUED: May 28, 1999

EFFECTIVE: July 1, 1999

ISSUED BY: William J. Senter

Vice President – Rates & Regulatory Affairs

	P.S.C. NO. 20 First Revised SHEET No. 67 Cancelling Original SHEET No. 67
WESTER	N KENTUCKY GAS COMPANY
	Rules and Regulations
j)	Returned Check Charge. A returned check charge may be assessed if a check accepted for payment of a Company bill is not honored by the customer's financial institution.
k) 1 1 1 1 1	Late Payment Penalty. A late payment charge may be assessed if a customer fails to pay a bill for services by the due date shown on the customer's bill. The penalty may be assessed only once on any bill for rendered services. Any payment received will first be applied to the bill for services rendered. Additional penalty charges will not be assessed on unpaid penalty charges.
l) I s c	Premise Charge. A charge to recover Excess Investment associated with new residential (N) service connections, along with carrying costs and related taxes. The following terms and conditions are applicable to the charge:
	1) Separate charges shall be computed and applied for those service connections requiring main extension and for those connections not requiring main extension.
	2) The charges are applicable to all new residential service connections, commencing with connections made on and after January 1, 2001.
	3) The charge shall be payable for 180 months and is applicable to the service address, regardless of changes in ownership, commencing with the first occupant of the address following service connection.
	4) Premise Charges shall not be applicable to HUD-certified low-income new housing or to LIHEAP-qualified customers at any service address.
	5) The Company shall update the amounts of the charges annually and, upon Commission approval, apply such new charges prospectively for new residential service connections in the ensuing year. If the amount of increase or decrease to the Premises Charge is less than 10%, the Company may waive implementation of such increase or decrease and charge the existing Premises Charge for new connections in the ensuing year.
6)	The Company shall file a report with the Commission annually, not later than 120 days after the close of the Company's fiscal year, listing the number and type of Premise Charges levied during the fiscal year and the financial accounting entries for the disposition of revenues, cost recovery, and taxes.
SSUED: N	Aay 28, 1999 EFFECTIVE: July 1, 1999

ISSUED BY: William J. Senter

.

Vice President – Rates & Regulatory Affairs



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KENTUCKY 40602 www.psc.state.ky.us (502) 564-3940 Fax (502) 564-3460

Ronald B. McCloud, Secretary Public Protection and Regulation Cabinet

Helen Helton Executive Director Public Service Commission

Paul E. Patton Governor

June 15, 1999

Mr. Edward Thomason 208 East Keican P.O. Box 305 Dawson Springs, KY 42408

> RE: Case No. 99-070 Western Kentucky Gas

Dear Mr. Thomason:

The Commission has received your letter dated June 4 concerning the above case. Your letter is being treated as an official protest and will be placed in the case file. The Commission will carefully analyze this case before rendering its decision. Be advised that the effect of the rate increase cannot yet be determined as the increase originally proposed by Western Kentucky Gas is not necessarily what may be ordered in the Commission's final decision.

If you wish to participate in the proceeding, including any hearing that may be held, you must file a motion to intervene with the Commission. Attached is a copy of Commission regulations concerning intervention. If you request limited intervention and your request is granted, you will receive copies of all Commission Orders entered in this case. You will not, however, be served with filed testimony, exhibits, pleadings, correspondence or other documents submitted by the parties. If you wish such information, you must request and be granted <u>full</u> intervention. If you are granted intervention and wish to request a hearing, you should file such a request with Helen C. Helton, the Commission's Executive Director.

The Attorney General's Office for Rate Intervention, which represents consumers' interests, may be able to assist you further. You may contact them at (502) 695-5453 to inquire whether there will be a representative from that office participating in this case.



AN EQUAL OPPORTUNITY EMPLOYER M/F/D

Mr. Edward Thomason June 15, 1999 Page 2

Thank you for your interest and concern in that matter.

Sincerely, bu koha

Stephanie Bell Secretary of the Commission

rlm Enclosure



AN EQUAL OPPORTUNITY EMPLOYER M/F/D



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

June 10, 1999

To: All parties of record

RE: Case No. 99-070

,

٢

We enclose one attested copy of the Commission's Order in the above case.

Stephane Bul

Stephanie Bell Secretary of the Commission

SB/hv Enclosure William J.⁴ Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY 42303 1312

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hutchinson Kinney 115 East Second Street Owensboro, KY 42303

Honorable John N. Hughes Attorney for Western KY Gas 124 West Todd Street Frankfort, KY 40601

Mr. Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265

Honorable David E. Spenard Assistant Attorney General 1024 Capital Center Drive Frankfort, KY 40601 8204

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF WESTERN) KENTUCKY GAS COMPANY FOR AN) ADJUSTMENT OF RATES)

CASE NO. 99-070

<u>ORDER</u>

This matter arising upon the motion of the Attorney General of the Commonwealth of Kentucky, by and through his Office of Rate Intervention ("Attorney General"), filed June 4, 1999, pursuant to KRS 367.150(8), for full intervention, such intervention being authorized by statute, and this Commission being otherwise sufficiently advised,

IT IS HEREBY ORDERED that the motion is granted and the Attorney General is hereby made a party to these proceedings.

Done at Frankfort, Kentucky, this 10th day of June, 1999.

By the Commission

ATTEST:

JOHN N. HUGHES

Attorney at Law Professional Service Corporation 124 WEST TODD STREET FRANKFORT, KENTUCKY 40601

> RECEIVED JUN 0 8 1999

PUELIC SERVICE

COMMISSION

Telecopier: (502) 875-7059

June 8, 1999

Ms. Helen Helton Executive Director Kentucky Public Service Commission 730 Schenkel Lane Frankfort, KY 40602

Re: Case No. 99-070

Dear Ms. Helton:

In reviewing the application filed by Western Kentucky Gas Company on May 28, 1999, two items were determined to need revision. Pages 21-23 of Don Murry's testimony was not included in the filing. Attached as item 1 are those pages, which should be inserted into volume 1, tab 8.

The second item involves the Premises Charge. The application lists that charge as \$13.09 for a main extension and \$11.28 for a non-main extension. The correct charge is \$13.05 and \$11.25, respectively. Corrected tariff pages are attached as item 2: PSC 20, Sheet 51 should be inserted into volume 1, tab 6; the "Notice of Proposed Changes in Gas Tariffs Which Will Result in Increased Charges" should be inserted into volume 1, tabs 9, 11, 12, and 14. This is attached as item 3. Finally, PSC 20, sheet 51 of volume 1, tab 8 should be replaced with the corrected sheet attached as item 4. This error for the Premises Charge was found and corrected prior to the publication of the notice to the public. Therefore, only the exhibits in the application need to be replaced to reflect the correct rate proposed.

Thank you for your assistance, and if there are any questions about this matter or if additional information is needed, please contact me.

incerely Yours Hughes

Attorney for Western Kentucky Gas Company

cc: Attorney General

Telephone: (502) 227-7270

<u>ITEM 1</u>

- A. I believe that the markets are recognizing the general movement to deregulation in the natural
 gas industry. In fact, the market information indicates that investors are aware of at least
 some of the risks that the gas distributors face.
- 4 Q. How do you know that the investors have been able to distinguish between the risks and
 5 returns of the gas distribution companies and the transmission companies?
- I compared the market performance of the Moody's gas distribution companies and the gas 6 A. transmission companies over the past year. Schedule DAM-18 illustrates how the capital 7 structure of transmission companies have enjoyed the same relative appreciation as the 8 capital structure of industrials during this period. Note the similarity between the 9 performance of the industrial index and the transmission company index in that schedule. 10 11 Generally, the price appreciation of the Moody's transmission companies and the Dow Jones Industrials have tracked very closely. However, this graph also shows that the prices for the 12 Moody's gas distribution stocks as a group have been flat or negative over the same period. 13 14 Q. How has Atmos' common stock fared during this period?
- A. Schedule DAM-19 shows that Atmos' common stock has performed slightly better than the
 flat trend of the stock of Moody's distribution companies as a group; however it has failed
 to keep up with the Dow Jones Utilities Index.
- 18 Q. Did you evaluate any additional risk factors of the Atmos capital structure?
- 19 A. Yes, I did. I compared the *Value Line* "Safety Risk" and "Timeliness" rank of Atmos to the
 20 "Safety Risk" and "Timeliness" ranks of the Moody's companies.
- 21 Q. What did these comparisons show?

Western Kentucky/Direct/1999

21

A. Atmos is rated at a safety and timeliness measure that is lower than those of every one of the
 Moody's companies. In other words, *Value Line* finds the risks of Atmos, as measured by
 these statistics, as higher than each of the Moody's companies. These comparisons are shown
 in Schedules DAM-20 and DAM-21.

- Q. Can you summarize the results of your estimates of the cost of common equity for Western
 Kentucky and your recommendation in this proceeding?
- A. Using comparative costs, I developed a DCF calculation and CAPM analysis of the cost of
 common equity for Atmos and the comparable gas distribution companies and evaluated the
 current market circumstances as risks of Western Kentucky. Taking into account these
 various measures and the current market conditions, I believe that Western Kentucky's return
 in this proceeding should be in the range of 12.0 to 12.5 percent. My recommended return
 on total capital, in the range from 9.86 percent to 10.11 percent is demonstrated in Schedule
 DAM-22.
- 14 Q. You stated that you evaluated the adequacy of your return recommendation. How did you do15 that?

A. I calculated Atmos' interest coverage ratio using the low end of my recommended coverage
range and the return for the Moody's companies. (These coverage ratios are shown in
Schedule DAM-23). This measures the adequacy of the return in meeting the obligations to
the holders of Atmos' debt. The after-tax coverage of Atmos at the low end of my
recommended return level is 2.86 times, which is an acceptable coverage. Note the average
coverage of the Moody's companies is 3.01.

22 Q. What after-tax interest coverage do you consider adequate?

Western Kentucky/Direct/1999

22

- A. In most cases, I consider an after-tax coverage of 2.5 times minimally acceptable for a
 regulated utility.
- 3 Q. Does this conclude your testimony?
- 4 A. Yes, it does.

Western Kentucky/Direct/1999



WESTERN KENTUCKY GAS COMPANY

CORRECTED

Volume 1, tab 6

Service	After Hours	Regular
Meter Set*	\$35.00	\$28.00
Turn-on*	25.00	20.00
Read	14.00	12.00
Reconnect Delinquent Service	40.00	₩34.00
Seasonal Charge	73.00	65.00
Special Meter Reading Charge	N/A	No Charge
Meter Test Charge	N/A	20.00
Returned Check Charge	N/A	23.00
Late Payment Charge (Rate G-1 only)		5%
Premises Charge for new residential service - Requiring main extension - Not requiring main extension	connections**	13.05 per mo. 11.25 per mo.
Optional Facilities Charge for Electronic Flo - Class 1 EFM equipment (less than \$7,50 - Class 2 EFM equipment (more than \$7,50)	ow Measurement ("EFM" 00, including installation 500, including installation	') equipment costs) 105.00 per mo. n costs) 245.00 per mo.
 * Waived for qualified low income applica ** Waived for qualified low income application low income new housing 	ants ("LIHEAP participa ants ("LIHEAP participa	nts") nts") and HUD-certified

ISSUED: May 28, 1999

EFFECTIVE: July 1, 1999

ISSUED BY: William J. Senter

Vice President - Rates & Regulatory Affairs





NOTICE

OF PROPOSED CHANGES IN GAS TARIFFS WHICH WILL RESULT IN INCREASED CHARGES

Notice is hereby given that Western Kentucky Gas Company ("Western"), a public utility furnishing natural gas service within the Commonwealth of Kentucky, on/or about the 28th day of May 1999, pursuant to Kentucky Revised Statute 278.180 and the Rules of the Public Service Commission of Kentucky, respecting tariffs, filed its notice to the Kentucky Public Service Commission ("KPSC"), proposing to change its gas rates effective July 1,1999.

The present rates charged in all territory served by Western are as follows:

Present Rates (Effective April 1, 1999)

Rate G – 1, General Sales Service

Monthly Base Charge:

\$5.10 per meter for residential service \$13.60 per meter for non-residential Commodity Charge

First 300 Mcf or less per month Next 14,700 Mcf per month Over 15,000 Mcf per month* Minimum Charge: The Base Charge \$3.5660 per 1,000 cubic feet \$3.0630 per 1,000 cubic feet \$2.9130 per 1,000 cubic feet

Rate G - 1, High Load Factor Firm Sales Service

Monthly Base Charge:

\$13.60 per meter for non-residential Demand Charge

Commodity Charge First 300 Mcf or less per month Next 14,700 Mcf per month Over 15,000 Mcf per month* Minimum Charge: The Base Charge

Rate G-2, Interruptible Sales Service

Monthly Base Charge: \$150.00 per meter Commodity Charge First 15,000 Mcf or less per month Over 15,000 Mcf per month* Minimum Charge: The Base Charge \$4.2809 per 1,000 cubic feet of Daily Contracted Demand

\$3.0111 per 1,000 cubic feet \$2.5081 per 1,000 cubic feet \$2.3581 per 1,000 cubic feet

\$2.4756 per 1,000 cubic feet \$2.3256 per 1,000 cubic feet

Rate LVS-1, Firm Sales Service Monthly Base Charge: \$13.60 per meter Commodity Charge First 300 Mcf or less per month Next 14,700 Mcf per month Over 15,000 Mcf per month* Minimum Charge: The Base Charge

\$3.5916 per 1,000 cubic feet \$3.0886 per 1,000 cubic feet \$2.9386 per 1,000 cubic feet

Rate LVS-1, High Load Factor Firm Sales Service

Monthly Base Charge:

\$13.60 per meter for non-residential Demand Charge

Commodity Charge First 300 Mcf or less per month Next 14,700 Mcf per month Over 15,000 Mcf per month* Minimum Charge: The Base Charge \$4.2809 per 1,000 cubic feet of Daily Contracted Demand

\$3.0367 per 1,000 cubic feet \$2.5337 per 1,000 cubic feet \$2.3837 per 1,000 cubic feet

Rate LVS-2, Interruptible Sales Service

Monthly Base Charge: \$150.00 per meter Commodity Charge First 15,000 Mcf or less per month Over 15,000 Mcf per month* Minimum Charge: The Base Charge

\$2.4710 per 1,000 cubic feet \$2.3210 per 1,000 cubic feet

Rate T – 2 General Transportation Service

(Includes standby sales service under corresponding Sales rates)

Rate T- 2/G – 1, Firm Transportation with Firm Standby Sales Service Monthly Base Charge:

\$13.60 per meter \$45.00 Administration Charge Commodity Charge First 300 Mcf or less per month Next 14,700 Mcf per month Over 15,000 Mcf per month* Minimum Charge: The Base Charge

\$1.7902 per 1,000 cubic feet \$1.2872 per 1,000 cubic feet \$1.1372 per 1,000 cubic feet

Rate T- 2/G – 1, High Load Factor Firm Service Monthly Base Charge:

\$13.60 per meter for non-residential \$45.00 Administration Charge Demand Charge

First 300 Mcf or less per month

Next 14,700 Mcf per month

Over 15,000 Mcf per month*

Minimum Charge: The Base Charge

Commodity Charge

\$4.2809 per 1,000 cubic feet of Daily Contracted Demand

\$1.2353 per 1,000 cubic feet \$0.7323 per 1,000 cubic feet \$0.5823 per 1,000 cubic feet

Rate T-2/G-2, Interruptible Transportation with Interruptible Standby Sales Service Monthly Base Charge:

\$150.00 per meter \$45.00 Administration Charge Commodity Charge First 15,000 Mcf or less per month Over 15,000 Mcf per month*

\$0.6998 per 1,000 cubic feet \$0.5498 per 1,000 cubic feet



Transportation only service Monthly Base Charge: \$150.00 per meter \$45.00 Administration Charge Commodity Charge First 300 Mcf or less per month Next 14,700 Mcf per month Over 15,000 Mcf per month*

\$1.0615 per 1,000 cubic feet \$0.5585 per 1,000 cubic feet \$0.4085 per 1,000 cubic feet

Special Charges

1

Tum on new service with meter set Turn on service, shut in test required Turn on service, meter read only required Reconnect delinquent service Reconnect service off temporarily at customer request Termination or field collection charge Meter test charge Returned check charge Optional facilities charge for Electronic Flow Measurement Class 1 E FM Class 2 E FM

\$28.00 \$18.00 \$10.00 No Charge \$25.00 \$ 5.00 \$20.00 \$15.00

\$105 per month \$210 per month

\$4.2809 per 1,000 cubic feet of Daily Contracted Demand

Proposed Rates

Rate G-1, General Sales ServiceMonthly Base Charge:
\$9.00 per meter for residential service
\$24.00 per meter for non-residentialDistribution Charge
First 300 Mcf or less per month
Next 14,700 Mcf per monthSolution Charge
First 300 Mcf or less per month
Over 15,000 Mcf per month*Gas Charge, all Mcf
Minimum Charge: The Base Charge

Rate G - 1, High Load Factor Firm Sales Service

Monthly Base Charge: \$24.00 per meter for non-residential Demand Charge

Distribution Charge	-
First 300 Mcf or less per month	\$1.2000 per 1,000 cubic feet
Next 14,700 Mcf per month	\$0.6946 per 1,000 cubic feet
Over 15,000 Mcf per month*	\$0.4299 per 1,000 cubic feet
Gas Charge, all Mcf	\$1.9496 per 1,000 cubic feet
Minimum Charge: The Base Charge	•

Rate G-2, Interruptible Sales Service

Monthly Base Charge: \$250.00 per meter **Distribution Charge** First 15.000 Mcf or less per month Over 15,000 Mcf per month* Gas Charge, all Mcf Minimum Charge: The Base Charge

Rate LVS-1, Firm Sales Service

Monthly Base Charge: \$24.00 per meter **Distribution Charge** First 300 Mcf or less per month Next 14,700 Mcf per month Over 15.000 Mcf per month* Gas charge, all Mcf Minimum Charge: The Base Charge

\$1.2000 per 1.000 cubic feet \$0.6946 per 1,000 cubic feet \$0.4299 per 1,000 cubic feet \$2.5301 per 1,000 cubic feet

\$0.5300 per 1,000 cubic feet \$0.3301 per 1,000 cubic feet

\$1.9820 per 1,000 cubic feet

Rate LVS-1, High Load Factor Firm Sales Service

Monthly Base Charge:

\$24.00 per meter for non-residential **Demand Charge**

Distribution Charge First 300 Mcf or less per month Next 14,700 Mcf per month Over 15,000 Mcf per month* Gas Charge, all Mcf Minimum Charge: The Base Charge \$4.2809 per 1.000 cubic feet of Daily Contracted Demand

ą

\$1.2000 per 1,000 cubic feet \$0.6946 per 1,000 cubic feet \$0.4299 per 1.000 cubic feet \$1.9752 per 1,000 cubic feet

Rate LVS - 2, Interruptible Sales Service

Monthly Base Charge: \$250.00 per meter **Distribution Charge** First 15,000 Mcf or less per month Over 15,000 Mcf per month* Gas Charge, all Mcf Minimum Charge: The Base Charge

\$0.5300 per 1,000 cubic feet \$0.3301 per 1,000 cubic feet \$1.9774 per 1,000 cubic feet

Rate T-2, General Transportation Service

(Includes standby sales service under corresponding Sales rates)

Rate T- 2/G-1, Firm Transportation with Firm Standby Sales Service Monthly Base Charge: \$24.00 per meter \$50.00 Administration Charge **Distribution Charge** First 300 Mcf or less per month \$1.2000 per 1,000 cubic feet Next 14,700 Mcf per month Over 15,000 Mcf per month*

Gas Charge, all Mcf Minimum Charge: The Base Charge \$0.6946 per 1,000 cubic feet \$0.4299 per 1,000 cubic feet \$0.7287 per 1,000 cubic feet Rate T-2/G-1, High Load Factor Firm Service Monthly Base Charge: \$24.00 per meter for non-residential \$50.00 Administration Charge \$4.2809 per 1,000 cubic feet of **Demand Charge** Daily Contracted Demand **Distribution Charge** \$1.2000 per 1,000 cubic feet First 300 Mcf or less per month Next 14,700 Mcf per month \$0.6946 per 1,000 cubic feet \$0.4299 per 1,000 cubic feet Over 15,000 Mcf per month* \$0.1738 per 1.000 cubic feet Gas Charge, all Mcf Minimum Charge: The Base Charge

Rate T-2/G-2, Interruptible Transportation with Interruptible Standby Sales Service Monthly Base Charge:

15

\$250.00 per meter \$50.00 Administration Charge Distribution Charge First 15,000 Mcf or less per month Over 15,000 Mcf per month* Gas Charge, all Mcf Minimum Charge: The Base Charge

\$0.5300	per 1,000 cubic feet	
\$0.3301	per 1,000 cubic feet	
\$0.2062	per 1,000 cubic feet	

Rate T-3 Interruptible Carriage Service

Transportation only service Monthly Base Charge: \$250.00 per meter \$50.00 Administration Charge Distribution Charge First 15,000 Mcf or less per month Over 15,000 Mcf per month*

\$0.5300 per 1,000 cubic feet \$0.3301 per 1,000 cubic feet

\$1.2000 per 1,000 cubic feet

\$0.6946 per 1,000 cubic feet

\$0.4299 per 1,000 cubic feet

Transportation only service Monthly Base Charge: \$250.00 per meter \$50.00 Administration Charge Distribution Charge First 300 Mcf or less per month Next 14,700 Mcf per month Over 15,000 Mcf per month*

Rate T-4, Firm Carriage Service

Special Charges: After Hours Regular Meter set \$28.00 \$35.00 Turn on service \$20.00 \$25.00 Read \$12.00 \$14.00 Reconnect delinquent service \$34.00 \$40.00 Seasonal charge (service off temporarily at \$65.00 \$73.00 customer request) Meter test charge \$20.00 N/A Returned check charge \$23.00 N/A Optional facilities charge for Electronic Flow Measurement Class 1 E FM \$105.00 per month Class 2 E FM \$245.00 per month
*All gas consumed by the customer (sales, transportation, firm and interruptible) will be considered for the purposes of determining whether the volume requirement of 15,000 Mcf has been achieved. Note: The above rates include the Gas Cost Adjustment in effect at April 1, 1999.

Miscellaneous Tariff Changes

Gas Charge – Gas Cost Adjustment Clause (CGA) Changes

Western proposes to separate its current Commodity Charge into two components – a Gas Charge and a Distribution Charge. The Gas Charge GCA rider will establish a "zero-based GCA" by eliminating the base cost of gas and all non-gas costs from the calculation of the GCA. The GCA will be calculated from zero.

Distribution Charge

Western proposes to establish this volumetric charge to recover a portion of its non-gas costs, such as those formerly collected through the Commodity Charge. The remaining portion of non-gas costs are collected through the Company's other charges.

Weather Normalization Adjustment (WNA) Rider

Western proposes a WNA to stabilize the effects of winter weather volatility on customer bills during the months of November through April. The WNA will be applicable to the Distribution Charge. As a result of the WNA, customers will pay a Distribution Charge equivalent to the charge that would be applicable during "normal" winter weather.

Late Payment Charge

Western proposes to establish a late payment charge of 5% applicable to Rate G-1 Sales Service. This penalty will be applicable to past due billing amounts.

Premises Charge

Western proposes this new charge to be applicable only to connect new residential premises where facilities to the premises do not presently exist. If a main extension is required to establish new service, the proposed charge is \$13.05 per month for 15 years. If a main extension is not required to establish new service, the proposed charge is \$11.25 per month for 15 years. The Premises Charge is proposed to become effective January 1, 2001.

Demand Side Management (DSM) Surcharge

Western proposes to continue its weatherization of low-income residences for 3 years as conducted through the cooperation of community action agencies in Western's service area. Pursuant to KRS 278.285, the DSM surcharge is proposed to be applicable to the eligible residential class of customers, Rate G-1 Sales Service. The initial proposed charge is \$0.0380 per Mcf.

Margin Loss Recovery Mechanism Rider

Western proposes this rider to recover from all Sales Service customers 90% of future margin losses resulting from negotiated large customer contract reductions.

Gas Research Institute Research & Development (GRI R&D) Unit Charge Rider

Western proposes a phased-in restructuring of its collection of GRI R&D costs consistent with the settlement reached at the Federal Energy Regulatory Commission and as currently reflected in the tariffs of the interstate pipelines. The GRI R&D Unit Charge is proposed to be phased out of the GCA and into a component of the proposed Distribution Charge through 2004. This proposal will not result in an increase in charges to customers.

Alternate Receipt Point Service

Western proposes this new service, subject to availability, to provide additional receipt point flexibility for transportation customers. A \$0.10 per Mcf charge for this service is proposed, in addition to all other charges applicable to transportation customers.

All other charges not specifically mentioned herein shall remain the same as those presently in effect.

The proposed rates will result in an overall approximate increase in the amount of \$14,127,650 or 11.7% with increases of approximately \$9,221,264 or 13.5% for residential consumers, and \$3,427,255 or 9.9% for commercial consumers, and approximately \$1,057,992 or 6.4% for industrial consumers. Charges from other gas revenue will increase \$421,139 or 55.8%. The average monthly bill for residential consumers will increase approximately \$4.85 or 13.5%. The average monthly bill for commercial consumers will increase approximately \$14.57 or 9.9%. The average monthly bill for industrial customers will increase approximately \$14.57 or 9.9%. The average monthly bill for industrial customers will increase approximately \$209.46 or 6.4%. The impact on each customer's average bill will vary according to individual consumption or transportation levels. However, this impact can be determined by each customer by applying the proposed rates listed above to their respective average consumption or transportation levels.

The rates contained in this notice are the rates proposed by Western; however, the KPSC may order rates to be charged that differ from the proposed rates contained in this notice. Such action may result in rates for customers other than the rates included in this notice.

Any corporation, association, or person with a substantial interest in this matter may, by written request to the KPSC, within thirty (30) days after publication or mailing of this notice of the proposed rate changes, request to intervene; intervention may be granted beyond the thirty (30) day period for good cause shown. Requests to intervene should set forth the grounds for the request including the status and interest of the party be submitted to the KPSC at the address listed below.

Any person who has been granted intervention by the Commission may obtain copies of the rate application and any other filings made by the utility by contacting:

Western Kentucky Gas Company Attention: Mr. William J. Senter 2401 New Hartford Road Owensboro, KY 42303 (270) 685-8069

Any person may examine the rate application and any related filings at the office of Western or the Commission, as listed below:

Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY 42303 (270) 685-8069

Public Service Commission of Kentucky 730 Schenkel Lane P.O. Box 615 Frankfort, KY 40602 (502) 564-3940

EM

Present

CORRECTED

Volume 1, tab 8

. For Entire Service Area P.S.C. No. 20 First Revised SHEET No. 51

(First Substitute) Origmal SHEET No. 51 Cancelling

YESTERN KENTUCKY GAS COMPANY

Special Charges

	T
	1
Turn on new service with meter set *	Ξ ,
Turn on service (shut - in test required) •	Ξ.
Turn on service (meter read only required)	Ξ
Reconnect delinquent service.	
Reconnect service temporarily off at customers request	3
Termination or field collection charge	Ξ
Special meter reading charge	<u> </u>
Meter test charge	
Returned check charge	Ξ
Dptional Facilities Charge for Electronic Flow Measurement ("EFM") equipment – - Class 1 EFM equipment (less than \$7,500, including installation cost) 105.00 per n	٤
- Class 2 EFM equipment (more than \$7,500, including installation cost) 210.00 per n	2
 Waived for qualified low income applicants ('LIHEAP participants') 	•
ISSUED: October 2, 1995	—

Proposed

.. ~

FOR ENTIRE SERVICE AREA P.S.C. NO. 20 Second Revised SHEET No. 51 Cancelling First Revised SHEET No. 51

۶

WESTERN KENTUCKY GAS COMPANY

		ו - ר
After Hours	<u>Regular</u>	
\$35.00	\$ 28.00	٤
25.00	20.00	Ë_
14.00	12.00	3
40.00	34.00	Ż.
73.00	65.00	2
N/A	No Charge	
N/A	20.00	
N/A	23.00	:=
	5%	E
lections **	13.05 per mo. 11.25 per mo.	Z
easurement ("EFM" cluding installation (including installation	equipment costs) 105.00 per mo. costs) 245.00 per mo.	Z
("LIHEAP participar ("LIHEAP participar	ts") ts") and HUD-certified	z
EFFECT	IVE: July 1, 1999	-
	After Hours \$35.00 25.00 14.00 73.00 N/A N/A N/A N/A N/A N/A N/A LIHEAP participar *LIHEAP participar *LIHEAP participar	After Hours Regular \$35.00 \$38.00 \$35.00 \$28.00 \$25.00 \$20.00 14.00 12.00 73.00 \$5.00 73.00 \$5.00 73.00 \$5.00 73.00 \$5.00 N/A No Charge N/A \$20.00 N/A \$20.00 N/A \$20.00 N/A \$23.00 S% \$5% ections** 13.05 per mo. 11.25 per mo. 11.25 per mo. "LIHEAP participants") 105.00 per mo.

١

155 VED BY Ja allen Curett Vice President - Raise & Raguatory Attains

'swed by Authority of an Order of the Public Service Commission in Case No. 95-010 dated October 20, 1995.)

Vice President - Rates & Regulatory Affairs

ISSUED BY: William J. Senter

19-070 Eduard Thomason 200 E. KEICAN P.O. BOX 305 DAUSON SPRINCS, KY 42408 RECEIVED 6-3-99 ^{JUN} 0 4 1999 KENTUCKY BUBLIC GMMISSIONAU * 19 Judg is A VERY GOOD TIME FOR WESTERN KENTUCKY GAS TO FILE A RATE INCREASE, NOT MUCH GAS IS BEING USED AT THIS TIMESSON AURADAY FORKS WONIT NOTICE THE SMALL INCREASE! WHAT PERTURBS ME 15 DEC. JAN FEB+ MARCH, DE MO BILLIN THESE FOUR MONTHS IS AROANDISIZED PER MONTH, WHAT IS THIS FUCREASE GOING TO COSTME? THE AMOUNT OF ENCREASE BEING PROPOSED BY WKG MUST BE SUBSTANTIAL BEEAUSE THEY STATE IN THE ANTICAE IN OUR PAPER, THEY WILL GET THE PROPER RETURNON THEIR INVESTMENT, BUT WON'T NAVE TO FILE FOR INCREASES IN THE FUTURE WILL APPRECIATE YOUN RESPONSE SINCENERY deoon thomason P.S. I ASSUME THE LOSS OF KENTUCKy LITILITIES FROM OUR CITY IS OUT OF YOUR HANDS

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of: THE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN ADJUSTMENT OF RATES

Case No. 99-070



MOTION TO INTERVENE

Comes now the Attorney General of the Commonwealth of Kentucky, by and through his Office of Rate Intervention, pursuant to KRS 367.150(8), and moves to intervene in the above-styled proceeding. The Attorney General requests that he be permitted to intervene as a party to the fullest extent permitted by law in order to execute his statutory duties pursuant to KRS 367.150(8).

Respectfully submitted,

A.B. CHANDLER III ATTORNEY GENERAL

David Edward Spend

DAVID EDWARD SPENARD ASSISTANT ATTORNEY GENERAL 1024 CAPITAL CENTER DRIVE FRANKFORT, KENTUCKY 40601-8204 502.696.5457

CERTIFICATE OF SERVICE AND FILING

Undersigned counsel hereby certifies that an original and ten (10) photocopies of the foregoing Motion to Intervene were served and filed by hand delivery to the Hon. Helen C. Helton, Executive Director, Public Service Commission, 730 Schenkel Lane, Frankfort, Kentucky 40601; furthermore, it was served by mailing a true and correct copy of the same, first class postage prepaid, to William J. Senter, Western Kentucky Gas Company, 2401 New Hartford Road Owensboro, KY, 42303; Mark R. Hutchinson, Sheffer, Hutchinson & Kinney, 115 East Second Street, Owensboro, KY, 42303; John N. Hughes, 124 West Todd Street, Frankfort, KY, 40601; and Douglas Walther, Atmos Energy Corporation, P.O. Box 650205, Dallas, TX, 75265, all on this 4th day of June, 1999.

David Edward Spenark

Assistant Attorney General



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

May 28, 1999

William J. Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY. 42303 1312

è.

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hutchinson Kinney 115 East Second Street Owensboro, KY. 42303

Honorable John N. Hughes Attorney for Western KY Gas 124 West Todd Street Frankfort, KY. 40601

RE: Case No. 99-070

We enclose one attested copy of the Commission's Order in the above case.

Sincerely, stephan been

Stephanie Bell Secretary of the Commission

SB/hv Enclosure

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN ADJUSTMENT OF RATES

CASE NO. 99-070

ORDER

)

)

On March 1, 1999, Western Kentucky Gas Company ("Western") filed a notice of intent to file a rate case, together with a request to use an abbreviated form of published notice of its proposed rates. On May 5, 1999, the Commission, citing several deficiencies in the notice form, denied Western's request. On May 12, 1999, in response to the concerns expressed by the Commission, Western submitted an amended abbreviated notice form along with a Motion for Reconsideration.

The Commission, having considered the motion for reconsideration and the amended proposed abbreviated notice form and being otherwise sufficiently advised, HEREBY ORDERS that the use of the amended proposed abbreviated notice form submitted to the Commission on May 12, 1999 is approved, provided that the notice is corrected to reflect the correct dates and amounts.

Done at Frankfort, Kentucky, this 28th day of May, 1999.

By the Commission

ATTEST:

tive Direc

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVEL MAY 1 2 1999

BLIC SERVICE

In the Matter of:

The Application of Western) Case No. 99-070 Kentucky Gas Company for an Adjustment of Rates

MOTION FOR RECONSIDERATION

Western Kentucky Gas Company, by counsel, moves the Commission to reconsider its Order of May 5, 1999 denying the use of an abbreviated public notice of its pending rate application.

The attached revised notice addresses the issues raised in the Commission's Order. The information required in any rate notice is included for residential customers. As with any notice, it provides that the complete application and list of rates may be obtained by contacting the Company. Additionally, Western has made the information available on its WEB site.

The cost to publish the complete rate list is approximately double the proposed abbreviated notice as the attached analysis shows. This cost burden can be minimized for the Company and its customers with the proposed notice sought by Western.

For these reasons, Western requests that the Order of May 5, 1999 be modified to allow for the amended notice attached to this motion.

Submitted By:

Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265

Mark R. Hutchinson SHEFFER - HUTCHINSON -KINNEY 115 E. Second St. wensboro, KY / 42303 John N. Hughes 124 West Todd Street Frankfort, KY 40601

Attorneys for Western Kentucky Gas Company

NOTICE

OF PROPOSED CHANGES IN GAS TARIFFS WHICH WILL RESULT IN INCREASED CHARGES

Notice is hereby given that Western Kentucky Gas Company, a public utility furnishing natural gas service within the Commonwealth of Kentucky, on/or about the 30th day of April, 1999, pursuant to Kentucky Revised Statute 278.310 and the Rules of the Kentucky Public Service Commission, respecting tariffs, filed its notice to the Kentucky Public Service Commission ("KPSC"), proposing to change its gas rates, effective June 1, 1999.

Residential Commercial Industrial

Amount of rate change requested (\$) Amount of rate change requested (%) Present Rate Proposed Rate Effect on the average bill

Any corporation, association, or person with a substantial interest in this matter may, by written request to the KPSC, within thirty (30) days after publication or mailing of this notice of the proposed rate changes, request to intervene; intervention may be granted beyond the thirty (30) day period for good cause shown. Requests to intervene should set forth the grounds for the request including the status and interest of the party be submitted to the KPSC at the address listed below.

Any person who has been granted intervention by the KPSC may obtain copies of the rate application and any other filings made by the utility by contacting:

Western Kentucky Gas Company Attention: Mr. William J. Senter 2401 New Hartford Road Owensboro, Kentucky 42303 502-685-8072

Any person may examine the rate application and any related filings at the office of Western Kentucky Gas Company or the KPSC, as listed below:

Western Kentucky Gas Company 2401 New Hartford Road Owensboro, Kentucky 42303 502-685-8072 Kentucky Public Service Commission 730 Schenkel Lane P.O Box 615 Frankfort, Kentucky 40602 502-564-3940

Any person wishing to receive a copy of the Present Rates, the Proposed Rates and Miscellaneous Tariff Changes may do so by redeeming the coupon below by mailing to the Western address above to the attention of Mariam Tucker or by accessing the company's Web Site at http://www.westernkentuckygas.com.

Name

Company, if applicable

Address

MEMORANDUM

DATE: May 7, 1999

TO: Bill Senter

FROM: Tom Higdon

SUBJECT: Costs associated with advertising our "notice to customers" for WKG's 1999 Rate Case Filing

As asked, I identified the daily and non-daily newspapers throughout our service territory that would ensure appropriate coverage for our "notice to customers." I am listing below what the costs would be to run 3 advertisements, one per week beginning within 7 days of our filing.

Our account executive with the Owensboro Messenger-Inquirer, Ms. Julia Bailey, judged that the abbreviated notice was of the size to require a 1/4 page ad and that the full notice (using our 1995 Notice as an example) would require a 1/2 page ad. Pricing follows below:

NEWSPAPER	Abbreviated	Fuli
Daily Newspapers		
DAILY NEWS in Bowling Green	\$ 1204.89	\$2409.75
THE ADVOCATE-MESSENGER in Danville	782.46	1564.92
GLASGOW DAILY TIMES in Glasgow	713.52	1330.00
KENTUCKY NEW ERA in Hopkinsville	897.60	1881.00
THE MESSENGER in Madisonville	1063.14	1738.80
THE MESSENGER IN Mayfield	680.40	1393.20
MESSENGER-INQUIRER in Owensboro	2269.89	3468.00
THE PADUCAH SUN in Paducah	1749.18	3498.39
Non-Daily Newspapers		
CENTRAL KENTUCKY NEWS-JOURNAL in Campbellsville	550.94	1101.87
THE ANDERSON NEWS in Lawrenceburg	540.84	1060.38
TIMES-LEADER in Princeton	375.21	708.84
NEWS-DEMOCRAT AND LEADER in Russellville	485.10	971.40
SENTINEL-NEWS in Shelbyville	671.88	1403.76
Total	ls \$11985.05	\$22530.31



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

May 5, 1999

William J. Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY. 42303 1312

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hutchinson Kinney 115 East Second Street Owensboro, KY. 42303

Honorable John N. Hughes Attorney for Western KY Gas 124 West Todd Street Frankfort, KY. 40601

RE: Case No. 99-070

We enclose one attested copy of the Commission's Order in the above case.

Sincerely,

Stephanie Bell Secretary of the Commission

SB/sa Enclosure

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

)

)

In the Matter of:

THE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN ADJUSTMENT OF RATES

CASE NO. 99-070

On March 1, 1999, Western Kentucky Gas Company ("Western") filed a notice of intent to file a rate case, together with a request to use an abbreviated form of published notice of its proposed rates, which the Commission will treat as a motion. Western filed a draft notice with the Commission for its review on April 14, 1999.

The Commission, having considered the motion and draft notice and being otherwise sufficiently advised, finds that Western has not shown good cause to use its proposed abbreviated form of notice.

Commission regulation 807 KAR 5:001, Section 10(3)(a)(b) and (c) requires the notice to disclose: 1) the amount of rate change requested in both dollars and percentage for each customer class; 2) the present and proposed rates for each customer class; and 3) the effect upon the average bill for each customer class. While the abbreviated form of notice proposed by Western sets forth certain required information, it places the burden on the customers to request a schedule of the proposed rate changes in order to make an informed decision on whether to intervene or object. In addition, Western has made no showing that it is unable to include the

above-cited information in the notice; nor has it shown that including such information would be unduly burdensome or result in excessive costs.

IT IS THEREFORE ORDERED that Western's motion to use an abbreviated form of notice is denied.

Done at Frankfort, Kentucky, this 5th day of May, 1999.

By the Commission

ATTEST:

Executive Directo

MARRE HUTCHINSON IEFFREY R. KINNEY' GENE E. BROOKS' CHARLES B. WEST GURKE B. TERRELL CARL B. BOYD, IR.' REBECCA T. KASHA' PETER B. LEWIS' HOWARD E. FRASIER, IR. ' IAMES A. SIGLER IOHN A. SHEFFER EDWIN A. JONES MARC A. LOVELL C. TERRELL MILLER DAVIN S. KELSEY' TINA R. MGFARLAND' A. J. MANION' DONINA M. SAUER' LIZBETH L. BAKER

<u> Sheffer·hutchinson·kinney</u>

115 EAST SECOND STREET OWENSBORO, KENTUCKY 42303 (502) 684-3700 FAX (502) 684-381 www.kylaw.com SCOTT A. HOOVER WILLIAM H. MAY KERRY SIGLER MORGAN CHRISTOPHER C. WISCHER ANNE G. DEDMAN MICHAEL L. MEYER JULE V. OVERSTREET JENNIFER CASTELLI TARA RODNEY BECKWITH JOHN S. HARRISON AMY JO HARWOOC

OF COUNSEL JOHN N. HUGHES ROBERT A. MARSHALL ' ADMITTED TO IN BAR ' ADMITTED TO IN AND KY BAR ' ADMITTED TO IN AND OH BAR ' ADMITTED TO KY AND TN BAR ' ADMITTED TO KY AND KY BAR ALL OTHERS ADMITTED IN KY ONLY

April 27, 1999

RECEIVED

APR 2 8 1999

PUBLIC SERVICE COMMISSION

Kentucky Public Service Commission 720 Schenkel Lane Frankfort, Kentucky 40601

Attention: Helen Helton, Executive Director

RE: Supplemental Notice of Intent to File Rate Application Case No. 99-070

Dear Helen:

By letter to you of February 26, 1999, I notified the Commission of the intent of Western Kentucky Gas Company ("Western") to file a general rate adjustment application on or after April 1, 1999. Although Western was unable to file its application on April 1, 1999, as expected, it still intends to file a general rate adjustment application with the Commission.

Western accordingly withdraws its prior notice and notifies the Commission, pursuant to Section 8 of 807 KAR 5:011, that it now intends to file the general rate adjustment application on or after May 28, 1999, and intends to use a forecasted test period. We would request that the Commission continue to use the case number previously assigned to this rate proceeding (99-070).

Western has submitted to the Commission a proposed abbreviated form of newspaper notice. Pursuant to Section 8 of 807 KAR 5:011, Western would further request the Commission's permission to use the abbreviated form of newspaper notice previously submitted.

We are also mailing a copy of this supplemental notice to the Kentucky Attorney General's Rate Intervention Department as required by applicable law.

If there are any questions or problems with this supplemental notice, please advise. Thanks.

Very truly yours,

SHEFFER HUTCHINSON KINNEY

Mark R. Hutchinson

O:\USERS\BKK\WKG\PSC\RATE\PSC.LTR

.

JOHN N. HUGHES Attorney at Law Professional Service Corporation 124 WEST TODD STREET FRANKFORT, KENTUCKY 40601

April 14, 1999

Telecopier: (502) 875-7059

RECENT APR 1 4 1999 PUELIC COMMULIESION

Ms. Helen Helton Executive Director Kentucky Public Service Commission 730 Schenkel Lane Frankfort, KY 40602

Re: Case No. 99-070

Dear Ms. Helton:

In its notice of intent to file for an adjustment of rates dated February 26, 1999, Western Kentucky Gas Company requested approval of the use of an abbreviated notice of the rate changes to be proposed in its application. Attached is a copy of a draft notice the notice Western proposes to publish in the local newspapers. It does not specify the amounts of the increases because they are not yet determined. However, if this format is acceptable or if there are changes that the Commission believes necessary, please notify me so that we may proceed.

Thank you for your assistance, and if there are any questions about this matter or if additional information is needed, please contact me.

Sincerely Yours, inter John N. Hughes

Attorney for Western Kentucky Gas Company

cc: Attorney General

Telephone: (502) 227-7270

NOTICE

OF PROPOSED CHANGES IN GAS TARIFFS WHICH WILL RESULT IN INCREASED CHARGES

Notice is hereby given that Western Kentucky Gas Company, a public utility furnishing natural gas service within the Commonwealth of Kentucky, on/or about the 30th day of April, 1999, pursuant to Kentucky Revised Statute 278.310 and the Rules of the Kentucky Public Service Commission, respecting tariffs, filed its notice to the Kentucky Public Service Commission ("KPSC"), proposing to change its gas rates, effective June 1, 1999. The residential rates proposed by Western Kentucky Gas Company include:

- A Monthly Base Charge for Residential Service of \$0.00.
- A Distribution Charge (excludes gas costs) of \$0.00 per Mcf.
- A Premises Charge applicable to certain new customers of \$0.00 per month.

The average residential bill will be \$0.00 per month. The average residential bill will increase 00.0 percent per month. Other rates and changes to residential, commercial and industrial rates are also proposed.

Any corporation, association, or person with a substantial interest in this matter may, by written request to the KPSC, within thirty (30) days after publication or mailing of this notice of the proposed rate changes, request to intervene; intervention may be granted beyond the thirty (30) day period for good cause shown. Requests to intervene should set forth the grounds for the request including the status and interest of the party be submitted to the KPSC at the address listed below.

Any person who has been granted intervention by the KPSC may obtain copies of the rate application and any other filings made by the utility by contacting:

Western Kentucky Gas Company Attention: Mr. William J. Senter 2401 New Hartford Road Owensboro, Kentucky 42303 502-685-8072

Any person may examine the rate application and any related filings at the office of Western Kentucky Gas Company or the KPSC, as listed below:

Western Kentucky Gas Company 2401 New Hartford Road Owensboro, Kentucky 42303 502-685-8072 Kentucky Public Service Commission 730 Schenkel Lane P.O Box 615 Frankfort, Kentucky 40602 502-564-3940

Any person wishing to receive a copy of the Present Rates, the Proposed Rates and Miscellaneous Tariff Changes may do so by redeeming the coupon below by mailing to the Western address above to the attention of Mariam Tucker or by accessing the company's Web Site at http://www.westernkentuckygas.com.

Name

Company, if applicable

Address

City

State

Zip Code



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

March 1, 1999

William J. Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY. 42303 1312

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hutchinson Kinney 115 East Second Street Owensboro, KY. 42303

RE: Case No. 99-070 WESTERN KENTUCKY GAS COMPANY (Rates - General)

This letter is to acknowledge receipt of notice of intent to file a rate application in the above case. The notice was date-stamped received on March 1, 1999 and has been assigned Case No. 99-070. In all future correspondence or filings made in connection with this case, please reference the above case number.

If I can be of any help on procedural matters, please feel free to contact me at 502/564-3940.

Sincerely, Tephan Sur

Stephanie Bell Secretary of the Commission

SB/jc

NARK R. HÚTCHINSON JEFFREY R. KINNEY' GENE E. BROOKS' CHARLES B. WEST BURKE B. TERRELL CARL B. BOYD, JR. ' REBECCA T. KASHA' PETER B. LEWIS' HOWARD E. FRASIER, JR. ' JAMES A. SIGLER JOHN A. SHEFFER EDWIN A. JONES MARC A. LOVELL C. TERRELL MILLER DAWN S. KELSEY' TINA R. MCFARLAND' A. J. MANION' DONNA M. SAULER' JURETH L. BAKER

•The Law Firm Of • <u>sheffer·hutchinson·kinney</u>

> 115 EAST SECOND STREET OWENSBORO, KENTUCKY 42303 (502) 654-3700 FAX (502) 684-3881 www.kylaw.com

RECEIVED MAR - 1 1999 IC BERVICE

BRIAN F. HAARA ³ SCOTT A. HOOVER WILLIAM H. MAY³ KERRY SIGLER MORGAN CHRISTOPHER C. WISCHER³ ANNE G. DEDMAN³ MICHAEL L. MEYER⁴ JULIE V. OVERSTREET JENNIFER CASTELL¹ TARA RODNEY BECKWITH JOHN S. HARRISON AMY JO HARWOOD OF COUNSEL

<u>OF COUNSEL</u> JOHN N. HUGHES ROBERT A. MARSHALL

' ADMITTED TO IN BAR ' ADMITTED TO IN AND KY BAR ' ADMITTED TO IN AND OH BAR ' ADMITTED TO KY AND TN BAR ' ADMITTED TO IN, IL AND KY BAR ALL OTHERS ADMITTED IN KY ONLY

February 26, 1999

Kentucky Public Service Commission 720 Schenkel Lane Frankfort, Kentucky 40601

Attention: Helen Helton, Executive Director

RE: Notice of Intent to File Rate Application

case 99-070

Dear Helen:

Pursuant to Section 8 of 807 KAR 5:011, this is to notify the Kentucky Public Service Commission ("Commission") of the intent of Western Kentucky Gas Company ("Western") to file a general rate adjustment application on or after April 1, 1999. Western intends to file this rate application using a forecasted test period.

Western further requests the Commission's permission, pursuant to Section 8 of 807 KAR 5:011, to use an abbreviated form of newspaper notice.

Lastly, we are also this day mailing a copy of this Notice of Intent to the Kentucky Attorney General's Rate Intervention Department as required by applicable law.

If you have any questions please advise. Thanking you now for your attention to this matter.

Very truly yours,

SHEFFER HUTCHINSON KINNEY

Half / late

Mark R. Hutchinson

cc: Kentucky Attorney General

Western Kentucky Gas Company

May 8, 2002

١

Honorable Thomas M. Dorman Executive Director Kentucky Public Service Commission 211 Sower Boulevard P.O. Box 615 Frankfort, Kentucky 40602

Subject: GTI Collections and Annual Report

Dear Mr. Dorman:

Enclosed is an annual report on the Gas Technology Institute Research & Development programs being funded by Western Kentucky Gas Company customer contributions as provided for in Case No. 1999-070. I apologize for the relatively late date of its filing but the report was only recently finalized. A total of \$35,784.70 was collected in calendar year 2001 through the GRI (now GTI) R&D Unit Surcharge and invested in the GTI programs described in the report. This amount excludes GTI funds still being collected on a transitional basis by the interstate pipelines through their charges to Western Kentucky Gas.

Should the Staff or the Commission have any questions, please call me at 270-685-8072.

Sincerely yours,

VP – Rates & Regulatory Affairs

Enclosures



RECEIVED

MAY 1 0 2002

PUBLIC SERVICE

COMMISSION

Summary/update of the Gas Technology Institute (GTI) Non-FERC Mutual Funds (NFMFs) for Atmos Energy April 2002

Atmos Energy has elected to participate in four of GTI's existing non-FERC mutual funds (NFMFs) and the Sustaining Membership Program (SMP).

<u>The GTI mutual funds</u> are similar to financial mutual funds in that an objective is established and the investors choose R&D projects that have deliverables that are consistent with the mutual funds objective. Each of the funds has a GTI employee who acts as the fund manager – his/her responsibility is to coordinate the projects, work with the investors and the project managers. Following is a list of the funds, the Atmos funding level and the Atmos company contact for each of the funds:

- Residential Commercial Customer Growth Non-FERC Mutual Fund, Kevin Akers = primary contact
- Identifying Opportunities in Distributed Generation Markets Non-FERC Mutual Fund, Bob Kerley & Gary Smith = primary contacts
- Reducing Barriers to Residential and Commercial Markets non-FERC mutual fund, Fred Neu = primary contact
- Operations & Maintenance and Cost Effective Pipe Installation Non-FERC Mutual Fund, Kevin Akers = primary contact

Updates on each of these NFMFs can be found on pages 2-6 of this summary.

Meetings: the fund managers organize teleconferences on a frequent basis and conduct at least one meeting annually in conjunction with a gas industry meeting.

The Sustaining Membership Program

4.3

Objective: To conduct R&D to build a natural gas technology base - focusing on ideas and concepts beyond the near term horizon (mid-long term). Most, if not all, of the projects rely heavily on leveraging Government and Industry R&D investments.

Meetings: Two membership meetings are held each year in Chicago (Spring and Fall).

SMP Focus: Operations, Environmental Science & Technology, Energy Utilization and Energy Systems

Projects summaries are enclosed as a separate document.

Additional information: If you have any questions relating to this report or any other GTI initiative please contact Ron Snedic, Regional Manager Customer Relations, GTI/SGA at 972-620-4018 or email him at ron.snedic@gastechnology.org.

Residential Commercial Customer Growth Non-FERC Mutual Fund

Fund Objective: This fund strives to develop technology to cost-efficiently extend distribution systems to reach new customers and provide greater customer satisfaction.

Fund Manager = Tim Cole 847-768-0854 <u>tim.cole@gastechnology.org</u>

Joint Trenching (Report published and mailed to investors)

- GTI's joint trenching project provides the knowledge you need to confidently promote and implement joint trenching.
- GTI will provide a complete look at common utility placement practices, providing analysis from both a technical and economic point of view.
- New equipment was identified (available or prototype) and a list of contractors was compiled who have experience in joint trench construction.
- GTI studied and reported on the benefits and limitations of placing different utilities in a common trench or performing a simultaneous installation of utilities.
- Project Completed Fall 2001

Residential Burner Tip Growth (Draft report available May 2002)

- Recent new and enhanced product development in gas-consuming outdoor applications gas barbecue units/grills, outdoor lighting, outdoor fireplaces, patio heaters and spa/whirlpool heaters have gathered increased gas industry attention as residential burner-tip growth opportunities.
- However, the recent sales growth of outdoor products and their future potential have not been adequately characterized.
- Key challenges to fully exploiting this opportunity have not been fully assessed. For example, the costs of gas delivery to specific appliances may be difficult to recover in increased throughput.
- GTI will conduct a market study to characterize this market, estimate the load potential, and determine what incentives or other creative packages could be created to attract new customers.
- Conducted eight focus groups with Builders and Homeowners).
- Completed 31 in-depth expert interviews from nine segments of the building industry.
- This study is nearing completion, Art Barnard from Primen is the performer.

Home Generator (Project cancelled – funding used for additional work in the Burner Tip Growth Project).

- Two PowerSaver 5 kw generators will be demonstrated in Alabama, one will be at a residential customer site and the other will be at a commercial customer site during 2001. The PowerSaver has a unique switching capability. It is designed to provide both air conditioner load shedding and standby application.
- Detailed reports will be available to investors regarding the unit's performance and economics.

Identifying Opportunities in Distributed Generation Markets Non-FERC Mutual Fund

Fund Objective: This fund promotes informed decision making in developing a power generation strategy within your company through product demonstrations, comparative solution data, and information dissemination.

Fund Manager = John Kelly 847-768-0665 john.kelly@gastechnology.org

DG Target (Customized) Market Research (Anticipated completion 4Q2002) Deliverables Include:

• Model Results Binder with detailed modeling of DG

- DGen Pro Version 3.0 economic screening software for future modeling by investors
- 1/2 day workshop for Principals and Anchors
- Executive Summary and Optional Presentation for Anchors, Extended custom services.
- Final Report

Target Market Research

- Helps Investors: Understand Niche Markets for DG in their Areas & Develop Those Markets by Providing Tools & Data
- This project was re-scoped to provide additional benefit to investors.
- Primen, OnSite Energy and GTI are the performers on this project

Small Fuel Cell Market Research (Completed report sent to investors in 2001) Deliverables Include:

- Summary Report for all Investors
- 1/2 day workshop reviewing key aspects, findings, and implications of the results, presentations, and executive summaries for Principals and Anchors depending on level of investment.
- Primen (Performer)
- Fuel Cell Market Research
- Initiated Late Summer
- Topic Guide and IDI Screener complete
- 300 Candidates > 75; 75 to be contacted for interviews > 25
- Helps Investors realistically understand FC Product Potential & Commercialization Path/Timing through Industry Expert Interviews
- Completed in 2001

Microturbine Product and Technology Assessment (Field demonstration in process)

Project Kick-Off 10/2000

Unit Delivery, Installation, Start-up, Testing & Laboratory Evaluation (complete) Demonstration Unit running at customer facility – data is being compiled. Deliverables Include:

- Pre-commercial (I-R) Beta Microturbine (Co-gen)
- Independent Evaluation by GTI Performing Labs
- Factory Training for Anchor level participants
- Access to operational data via web site by 3Q2002.
- Final Summary Report on Development of Site Selection Process, including focus on how to reduce costs.
- Final report pending operating experience and data collection.

Fuel Cell Field Demonstration (Negotiations in progress)

This project has been delayed due to lack of available product. GTI has recently developed and sent out a bid package for a number of fuel cells to be used in this project and the 2001 DG Mutual Fund.

Deliverables Anticipated to include small fuel cell:

- Field Testing, Monitoring and Evaluation
- Anchor Plus Investors Proposed for "Host" Sites
- Current Review: IFC, Plug Power, Mosaic, Others

Fuel Cell Market Research: Technical & Business Insights for top 15-20 PEM, and SOFC manufacturers (Completed 2001)

Deliverables Include:

. • .

- Detailed Technical and Business summary reports on top 15-20 fuel cell manufacturers.
- Principals and Anchors receive copy on CD-Rom
- Anchor Investors will receive an Executive Summary of the Report Findings in PowerPoint Format
- Completed 2001

14 J. 18 4



Fund Objective: This Fund aims to reduce the time and cost associated with retaining the gas option in commercial and residential markets. Barriers are reduced through assessing market needs and characteristics, technology solutions development, product development and emerging issues assessments.

Fund Manager = Dave Kalensky 847-768-0944 <u>dave kalensky@gastechnology.org</u>

Food Service Profile Tool Update (Anticipated completion 202002)

Objective: To provide a spreadsheet tool to your marketing and sales force can use to assess the load and customer cost savings potential that can realized by maximizing gas equipment use in selected foodservice establishments.

Deliverables:

- Energy consumption profiles on selected foodservice establishments.
- Algorithm to adjust and customize restaurant energy profiles.
- Easy-to use computer-based tool to analyze customer load profiles.
- Workshop on tool use, profiles and analysis.

Status:

- Data gathering complete. Alpha and Beta versions of software were tested and improved.
- Final revisions of commercial version underway.
- Manual nearing completion.

Universal Vent System Update (Anticipated completion 2Q2002)

Objective: Specify and design a low-cost universal residential vent system that could be used to assure proper venting and operation of various types of standard gas appliances in homes with unusually tight building construction and high levels of house depressurization.

Deliverables:

- Defined product specifications for a low-cost universal vent system.
- Proof-of-Concept modeling.
- Business plan outlining the product path to market.
- Intellectual property generated and defined.
- Potential manufacturing partners identified.

Status: The draft final report was received in January 2002 and it revealed that testing results surpassed expectations. We are currently securing Patents to protect intellectual property that was identified in the project. We anticipate the report will be available in the near future.

Cost Saving Operations & Maintenance Practices and Cost Effective Pipe Installation Non-FERC Mutual Fund

Fund Objective: Participants in this fund receive technical information on new products, support for the development of improved technologies and products and workshops to provide a collection of technical solutions for natural gas operations. Program results show participants how to incorporate advanced technologies into operations activities. Successful implementation will result in lower operations and maintenance costs and increased productivity.

Fund Manager = Paul Beckendorf 847-768-0889 paul.beckendorf@gastechnology.org

One Step Pavement - Permanent Cold Patches (Anticipated completion in 1Q2003)

- Develop Specifications for cold mixes that would qualify them for use by LDCs as permanent patches
- Develop simplified tests
- Improve present mixes based on actual test results and field feedback
- Consider other types of materials

Ethane Methane Detector (EMD) (Anticipated completion in 1Q2003)

- A next generation, vehicle mounted leak detector that will separate methane and ethane gases
- Work now underway at Carnegie Mellon Research Institute:
- Determine the sensitivity of the system in the laboratory
- Mount system on a vehicle and test outdoors under controlled conditions
- Determine system sensitivity to ethane

Coated PE Pipe Options

History

- 1. GTI identified a coated PE pipe manufactured by Uponor in England, called Profuse.
- 2. GTI initiated discussions with Uponor US (Shawnee, OK) to make this pipe available in the US.
- 3. Uponor is preparing to market Profuse in the US.

Alternative Coated Pipe

- Egeplast PE pipe manufactured in Germany
- Used for water and natural gas
- Samples obtained for evaluation at O&M Fund Anchor member
- Positive test results in November 2000.
- Egeplast is currently evaluating US market potential for this product.

EMERGING TECHNOLOGIES FOR NATURAL GAS

GAS TECHNOLOGY INSTITUTE

SMP

DESCRIPTION



www.gastechnology.org/pub/smp/index.html

VF Rev 04/2002

PROGRAM DESCRIPTION

- **OBJECTIVE:** Conduct research to build a natural gas technology base for SMP companies, with the aim of developing ideas and concepts beyond the near-term horizon.
 - NEED: Market forces are driving manufacturers, developers, and supporting institutions toward near-term deployment of well-developed concepts. Global competition and capital resource limitations prevent manufacturers from accepting the risks and costs associated with the development of new and innovative technologies. There is a missing mid-term link in the development of natural gas technologies that will allow our SMP companies to take advantage of new market opportunities and compete effectively in tomorrow's marketplace. The SMP provides this missing mid-term link. The program strives to develop new and innovative technology concepts that will build and protect natural gas markets and will reduce the cost of transmission and distribution operations for member companies.
 - STATUS: SMP continues to receive substantial support from companies that were Basic Members. The roster of all the Participants that have joined this program is given in Table 1.

SMP was started in October 1985; with, five research areas to address.

- 1. Gas Operations
- 2. Environmental Science & Technology
- 3. Energy Utilization
- 4. Energy Systems

Within these research areas, over twenty projects are in progress. Twenty one projects have been concluded. A listing of current projects is given in Table 2. Efforts to date have resulted in over 50 patents and a number of successful commercial products. Information on our intellectual property and our commercial products is provided is provided in Appendices A and B respectively.

With GTI's business directions, SMP continues to play an even more important role in laying the foundation in the earlier stages of applied R&D.

ADMINISTRATION: • Members receive the benefit of a research effort dedicated to natural gas utility needs. All dues are pooled together to fund a balanced slate of projects designed to build a technology base and thus provide a highly leveraged research effort for individual contributors

- GTI also shares in the cost of this program. Sustaining Membership Research provides much more in direct labor hours for each dollar of dues expended by GTI when handled as Sustaining Membership research, compared with sponsored projects. This is made possible by essentially eliminating the costs of proposal preparation, reports, billing, marketing, contract administration, invoice collection, and fees.
- The SMP, which receives a high priority at GTI, is guided by a strategic top-level advisory committee from the gas industry called SIMRAC (Sustaining GTI Member Research Advisory Committee). The 10 members of the current committee are listed in Table 3, and an organization chart is shown in Figure 1. The Technical Guidance Committee includes 7 SMP utility representatives who work with 7 specialized gas industry individuals and its chair to identify technologies to fund.
- GTI is fully responsible for the conduct of the Sustaining Membership research program, not as sponsored projects, but in the way that GTI has been responsible for managing the education program with Basic Membership dues. Management costs are maintained at less than ten percent.
- Two semiannual conferences (1 to 2 days each) are held for Sustaining Members to receive reports on both new emerging technology initiatives, and on products entering the market place. Advisory input, principally through SIMRAC and membership feedback, is regularly solicited at these conferences to provide guidance for our program.
- All patents resulting from work on SMP, GTI-FERC or DOE coordinated projects are assigned to GTI. Sustaining Members receive preferential treatment on licensing over non-members. International utility members are granted the right-of-first refusal to license SMP technologies in their respective territories. GTI's share of royalties is returned to fund additional research in the Sustaining Membership Program.
- FUNDING: Currently GTI collects between \$1.5 and \$2.0 million per year from the SMP participants. GTI leverages these funds to a total program level exceeding \$7 million through participation by U.S. EPA, U.S. DOE, industry, and GTI-FERC. GTI continues to receive significant coordinated funding from GTI for projects that are consistent with GTI-FERC's research plan.

MEMBERSHIP DUES:	 Dues are collected annually before the beginning of the research year from Sustaining Members. The dues formula: 1. Is scaled according to company size based on the company's most recent NOI (Net Operating Income, after depreciation and taxes, but before capital and interest charges). 			
	2. Ranges from a minimum of \$5,000 annually to a maximum of \$100,000.			
	NOI, U.S. \$ million	Annual Dues, U.S. \$		
	Less than 5	5,000		
	Between 5.0 and 24.9	15,000		
	Between 25.0 and 49.9	40,000		
	Between 50.0 and 79.9	75,000		
	80 and over	100,000		
MEMBERSHIP TERM:	Initial 3-year commitment, automatically renewed annually for an additional 1-year term unless canceled in writing by the Sustaining Member 90 days before the end of the term.			
RESEARCH HIGHLIGHTS	Project summary sheets are attached and provide both a brief description and the research status for each project currently in progress.			
INFORMATION:	For additional information about please contact: Mr. Vincent B. Fi Director, Emergin PHONE: 847/768 FAX: 847/768-05 e-mail: vince.fiore	GTI's Sustaining Membership Program, ore g Technologies -0847 501 e@gastechnology.org		

Gas Technology Institute 1700 S. Mt. Prospect Des Plaines, IL 60018 USA

Information contained in this document is available on our Internet home page: http://www.gastechnology.org/pub/smp/index.html

Table 1.SMP PARTICIPANTS1

Alabama Gas Corp. (Energen Corporation)** Algonquin Gas Transmission Co. American Meter Co. (Ruhrgas Industries)** Atlanta Gas Light Co. (AGL Resources)** Atmos Energy Corp.**

Bay State Gas Co.(NiSource)** Berkshire Gas Co. (Energy East)**

Central Hudson Gas & Electric Corp.* City of Richmond City of Public Service, San Antonio Columbia Gas System Service Corp. (NiSource) Connecticut Natural Gas Corp. (Energy East)* Consolidated Edison Co. of NY, Inc.**

Delmarva Power & Light Co. (Connectiv)* Distrigas of Massachusetts Corp.* Dominion East Ohio *

Elizabethtown Gas Co. (NUI Corp.)** Energy East + EnergyNorth Natural Gas, Inc.** Enron Corp.* Equitable Gas Co. (Equitable Resources, Inc.)**

Gas Authority of India, Ltd. Gaz de France** Gaz Metropolitain, Inc.

Indiana Gas (Vectren)**

KeySpan Energy Delivery New England ** KeySpan Energy Delivery New York** Korea Gas Corp. Krupp Uhde GmbH

Laclede Gas Co.

Memphis Gas Light & Water Michigan Consolidated Gas Co. (Detroit Edison)** MidAmerican Energy Co.** MidCon Corp.** Middle Tenn. Natural Gas Util. Dist.* Minnegasco (Reliant Energy)*

National Fuel Gas Distribution Corp.** New England Gas Company (Southern Union)** New Jersey Natural Gas Co.** Nicor Gas** North Central Public Service Co. NiSource, Inc.** Northwestern Public Service**

Oklahoma Natural Gas Co. (ONEOK)** Osaka Gas Co., Ltd.**

Pacific Gas & Electric Co.** Panhandle Eastern Pipe Line Co.** Peoples Energy** Peoples Gas System (TECO) Philadelphia Gas Works Piedmont Natural Gas Co., Inc.** Public Gas Investment Pool Public Service Electric & Gas Co.**

Questar Gas (Questar)**

San Diego Gas & Electric Co. (Sempra) SIGCO (Vectren)** Southern California Gas Co. (Sempra)** Southern Connecticut Gas Energy East Co(Energy East).** Southern Natural Gas Co.** Southwest Gas Corp.

Tenneco Gas* Texas Gas Transmission Corp.* Toho Gas Co., Ltd.* Tokyo Gas Co., Ltd.** Transcontinental Gas Pipe Line Corp.* TXU Gas (Oncor)**

United Energy Resources, Inc.

Washington Energy Co.* Washington Gas** Williston Basin Interstate Pipeline Co. and Montana-Dakota Utilities Co.* Wisconsin Gas Co.* Wisconsin Electric Power Co.**

Yankee Gas Services Co. (Northeast Utilities System)

¹Investors in 2001 and prior *Sustaining Member for 5 or more years. **Sustaining Member for 10 or more years +New Member in 2002 () Parent Companies

Table 2.

CURRENT RESEARCH PROJECTS

GAS OPERATIONS

Advanced Acoustic Distribution Instruments^b Automated Field Data Acquisition^b Smart Cathodic Protection Monitor^b Paging Technology Applications^{a, b} Piping Stress Detection^a Micro-Excavation Inert Base Gas for Natural Gas Storage Fields^a System for Upgrading Subquality Natural Gas^{a,b} Third-Party Damage Detection^a High-Pressure Liners^{a,b}

ENVIRONMENTAL SCIENCE & TECHNOLOGY

Remediation of Town Gas sites^a Microbial Leak Detection & Control

ENERGY UTILIZATION

High-Efficiency Process Heating^{a, b} Low-NO_x Boiler Burners^{a, b} METHANE de-NOX[®] Reburn Process for Coal/Biomass-Fired Stoker Boilers^{a, b} Oscillating Combustion Systems^{a, b} High-Capacity Gas-Fired Paper Drying^b SuperBoiler^{a, b} Self Optimizing Combustion Systems^{a, b} Submerged Combustion Melter^b

ENERGY SYSTEMS

BCHP/Advanced Cooling Systems^a NGV Fueling Station and Components^{a, b} DETC/Advanced Distributed Generation Controls

04/02

^a GTI-SMP Coordinated/Cofunded Project.

^b Co-funded by DOE, EPA, or Industry.
Table 3.

SMP RESEARCH ADVISORY COMMITTEE (SIMRAC)

David C. Carroll Vice President GTI

Peter A. Cistaro Vice President Public Service Electric & Gas

Donald M. Field President Peoples Energy

Jean-Pierre Roncato . Vice President Gaz de France

Lee Stewart President, ETS Southern California Gas Co. Wade Stinston Vice President Memphis Light Gas & Water Div.

Dennis J. Seeley President National Fuel Gas Supply Corp.

Kenneth A. Smith Vice President Alabama Gas Corp.

Steven A. Vitale Vice President KeySpan Energy

PROGRAM MANAGEMENT & COORDINATION GTI – Vince Fiore

Figure 1. SMP Management Structure

ţ.

۰.



PROJECT SUMMARY SHEETS

GAS OPERATIONS

ADVANCED ACOUSTIC DISTRIBUTION INSTRUMENTS

Project:

80017

Project

Period: 10/1/88 - Present

James E. Huebler Principal e-mail: jim.huebler@gastechnology.org Investigator: Christopher J. Ziolkowski Manager:

- To develop improved acoustic field instruments by applying microprocessor-based, **Objective:** digital signal processing (DSP) techniques.
- The current emphasis of this project is the development of a digital sonic leak **Description**: pinpointer (DSLP) for gas distribution systems. The development of an efficient leak pinpointer would significantly reduce gas utility operating costs by avoiding 'dry holes' and recalls due to secondary leaks. In addition, the same basic software/hardware can be adapted to other applications. One such application is third party damage detection. See project 80038. A spin-off of the DSLP technology was applied to the problem of controlling district regulators to automatically minimize pressure in a gas distribution system. The resulting product, GridBoss[™], won an R&D 100 Award as one of the 100 best new technical innovations in 2000.

The DSP technique of adaptive filtering has proven effective at noise management of the background signals encountered at most leak sites. This technique minimizes slowly varying sounds, such as approaching traffic. Adaptive filtering is also effective at removing periodic noises, such as 60 Hz and its harmonics. When combined with signal gating, adaptive filtering substantially improves an instrument's ability to pinpoint gas leaks. Signal gating is a method of minimizing loud intermittent background noise, including traffic noise.

Status:

All field trials in the Chicago area and both coasts have demonstrated the effectiveness of the background noise management techniques. The DSLP has correctly pinpointed leaks incorrectly pinpointed with the CGI. It has pinpointed a variety of leaks, including low-pressure - (6 inches of water column) cast-iron joint leaks. However for unknown reasons, the results have not been uniform across the country - excellent in Chicago and Sacramento, disappointing in New York and Los Angeles. In a few cases, leaks have not been acoustically pinpointed in sandy soil because colonies of microbes create encrustations of soil around the leak, reducing the amount of gas escaping and the production of sound.

The next step would be to redo the DSLP with new hardware, making improvements to sensitivity, noise management, and ruggedness. These changes will also greatly reduce the cost and make it easy to put units into utility hands. The next round of testing should be performed by utility crews.

AUTOMATED FIELD DATA ACQUISITION

Project: 80020

Period: 10/1/90 - Present

ProjectJohn A. KinastManager:e-mail: john.kinast@gastechnology.org

<u>Objective:</u> To develop PC and palm computer software applications for productivity improvements in the gas industry.

Description: Our current efforts focus on developing techniques and applications to automate the collection and processing of data taken in the field. These software developments reduce costs by automating data collection and reporting functions.

Status: With a series of requested enhancements, an application that automates the data collection process for work site inspections is in widespread use at an SMP member company. This application replaces manual entry on paper forms with palm computer data entries and automated data transfer to a centralized database. Results indicate that we met the goals of increasing the accuracy of data entries, accelerating data analysis and reducing the overall cost of data collection.

A second application, started after the Fall 2000 meeting, was just completed. It provides a replacement for a laptop computer program for another SMP member. Testing of the application has shown it to be easy-to-use, flexible, and meeting the needs of the company and it' customers.

With distribution by GTI of the Ovality and Scratch Tester kits, feedback from a number of utilities indicated that they are very easy to use, and save considerable time in the field; the kits include a Palm $111 \text{xe}^{\text{TM}}$ with our Ovality and Scratch Tester applications installed.

Current efforts focus on completing the application for assisting in leak surveying.

SMART CATHODIC PROTECTION MONITORS

Project:	80034	Period: 12/15/95-Present
Project Manager:	Christopher J. Ziolkowski e-mail: chris.ziolkowski@gastechnology.org	Principal Investigator: Paul Seger
Objective:	To develop a wireless system for reading cat using a buried, low-cost transponder and sacri	hodic protection currents and voltages ficial anode.
<u>Description</u> :	Cathodic protection (CP) test points are environments. They can be paved over or of activities. Even accessible test points can exp of this project is to develop a wireless, buried by or drive-over. Commercialization of thi productivity by eliminating most of the manuar work is co-sponsored by Brooklyn Union and	often difficult to access in urban otherwise lost because of construction pose crews to traffic hazards. The goal monitor that can be read during a walk- s approach will significantly improve al labor of obtaining CP readings. This the Gas Authority of India.
<u>Status:</u>	GTI reviewed commercially available tech adapted it for acquiring cathodic protection de were used to collect the data. Current from the low voltage technologies provides a viable po- at KeySpan Energy, are direct burial mode frequency RF is used for good ground penetral manufacturing is being addressed. A comp considerably ease fabrication was developed. evaluated in field tests with KeySpan.	nology for tagging plastic pipe and ata. Low-cost digital micro controllers ne sacrificial anode in conjunction with over supply. Prototype units, deployed ules for galvanic installations. Low tion. Further cost and size reduction for bact antenna and enclosure that will These improved prototypes are being
	The companion portable reading device stor number, along with a time and date stamp for version of the reader is being designed.	res both the CP readings and a serial later downloading. A Palm compatible

There are a wide variety of cathodic protection test boxes already installed at utilities. This represents a large market for transponders that can be retrofitted to test boxes without excavation. GTI developed a unique antenna design that is easily installed and effective for obtaining CP readings at these test boxes.

The basic technology is also being extended to meet the needs of impressed-current cathodic protection systems.

PAGING TECHNOLOGY APPLICATIONS

Project: 80037

Period: 10/1/97 - Present

ProjectChristopher J. ZiolkowskiPrincipalManager:e-mail: chris.ziolkowski@gastechnology.orgInvestigator: Paul Seger

Objective: To apply recent advances in paging technology to telemetry and information gathering needs in the gas industry. The first application to be addressed is a customer account management system that enables punitive setback of the thermostat for non-payment.

Description: Recent advances in paging technology have produced a means for two-way wireless transfer of packet data at very reasonable costs. This allows utilities to install data collection and control points on their systems without the necessity of first installing a communication infrastructure. Very low power consumption allows telemetry installations that are completely self-contained.

The first two-way paging application will address a customer account management system. It is being co-funded by KeySpan Energy, the NY Gas Group, and GTI/FERC. The system utilizes a wall-mounted thermostat that communicates with the utility via the paging system and short-range radio to the meter-set. The customer and the utility can monitor consumption and account balances in real time. The thermostat also has all the functionality of a normal programmable thermostat.

The system also provides the utility with a realistic alternative to service termination for non-payment by setting back the thermostat temperature until the account is settled. This setback feature could also be invoked temporarily for load shedding.

Status: The system is currently in the process of being deployed at several gas utilities for field testing. An LCD display and keypad allows customer interaction. The system obtains meter readings and tamper status from a commercially available RF meter index, as well as send and receive messages over the public paging network.

The most recent wireless technologies from Motorola and Internet Telemetry Corporation have been integrated into the system. Fifty thermostat systems are being constructed for deployment to the participating utilities.

PIPING STRESS DETECTION

Project: 80039

Period: 10/1/98 - Present

Project William Rush, Jr.

Manager: e-mail: bill.rush@gastechnology.org

Objective: To reduce the cost of operation for steel and cast iron gas mains by developing a system that detects the amount of bending stress on a buried metal pipe from a sensor traveling inside the pipe or used on the outside.

Description: Pipe breakage due to bending stress is the second most frequent cause of cast iron main failure (after third party damage). This stress can arise from soil settling, freeze-thaw cycles, traffic vibration, and soil disturbances. Bending stresses can also rapidly increase corrosion in steel mains.

GTI initially screened a wide variety of potential stress measurement techniques. This included measurements of stress-induced changes in sound velocity in the pipe wall, acoustic emission, laser profile scanning, magneto-striction, the Barkhausen effect, acoustic bi-refringence, and acoustic and electromagnetic focusing from the surface. We determined that detecting acoustic bi-refringence holds the most promise and this became the basis for the system.

Status: The acoustic bi-refringence technique measures shear horizontal stress waves along the inside of the pipe wall. Proof-of concept experiments show that there is enough change in velocity with stress to make the measurement possible. However, pipe wall roughness, particularly on the outside of corroded pipe, makes standard acoustic, through-the-wall measurements impractical. GTI worked with a manufacturer and the National Institute of Standards and Technology (NIST) to design an Electro-Magnetic Acoustic Transducer (EMAT) to generate and detect the required shear waves that will only travel along the inside wall of the pipe. GTI is now conducting a series of tests to make the measurements needed to design a prototype field unit.

Because of the complexity of the problem, initial effort is directed toward determining the bending stress in the idealized case of a clean metal pipe with no corrosion, no wall thinning, and no internal contamination or deposits. Additional complications found in the field will be addressed after the fundamental technical concept has been proven. Sonic Sensors, a manufacturer and developer of acoustic bi-refringence systems, and GTI have designed a specialized 4-sensor E-MAT detection system. The unit is currently being used for measurements of steel and cast iron samples that were removed from field installations. The samples are placed under bending stress and the change of velocity is measured as a function of stress level.

MICRO-EXCAVATION			
Project:	80046	Period: 01/1/02 - Present	
Project Manager:	Paul Beckendorf e-mail: paul.beckendorf@gastechnology.org	Principal Investigator Paul Beckendorf	
<u>Objective</u> :	To develop equipment, tools and sensors to al mains through a 6" or smaller diameter hole.	low operators to access and repair gas	
<u>Description</u> :	A major gas industry expense is accessing gas mains and services for maintenance and repair activities. Annually, the gas industry digs about 1,100,000 bell holes (3 foot by 4 foot) at an average cost exceeding of \$1,000 per bell hole. The total annual system cost of this work is \$1.1 billion. Because of these high costs, considerable work is being done to reduce the size of the excavation through the use of keyhole technologies. Keyhole excavations are typically 18 inches by 18 inches. Keyhole is gaining popularity as a proven method to cost-effectively perform the required work. New keyhole tools are expanding the range of repair activities that can be conducted.		
	The next logical developmental step, after keyhole, is micro-excavation; a much smaller opening. The project will develop tools and equipment that can operate through a 6" diameter opening. If this phase proves successful, future phases will look to reduce the opening diameter, with the goal of achieving a 1" diameter opening. Through a micro-excavation, tools could be inserted that would access and repair the gas main. With micro-excavations, paving settlement issues would no longer exist. Pavement cutback would not be an issue. Excavation and restoration costs would be drastically reduced.		
	 The objectives of the Micro-Excavation Equipre Determine, from the gas industry, what pro- accomplished through the use of micro-exce Through a world-wide survey, determine if Evaluate micro-surgical methods to determine micro-excavation. Identification of any patent and license issue Develop and prototype equipment. 	nent Development Program are: ocedures they would like to see eavation. Fany micro-excavation procedures ine how they can be adapted for use in nes.	
	This program addresses the feasibility of performing maintenance work on a gas main or service through a micro-opening. This micro-opening will serve as a pathway for an assortment of small, remotely-operated tools. This initial work is "un-intelligent," requiring very accurate location of the facilities. It is our hope that the successful completion of this work will lead to additional work to develop an intelligent device that will have sensors, enabling it to home in on the problem area as it descends from the surface.		
	The cost of this program is estimated to be \$5 as well as cofunding from the gas industry and/	00,000. GTI is seeking SMP funding for FERC funds.	
<u>Status:</u>	Currently reworking the proposal, and discussing this proposed effort. If possible, would like to 2001.	ng with and looking for cofunders of initiate in the fourth quarter of	

-. .

INERT BASE GAS FOR NATURAL GAS STORAGE FIELDS

Project: 80007 **Period:** 10/1/85 - Present

ProjectYusuf A. ShikariPrincipalManager:e-mail: Yusuf.Shikari@gastechnology.orgInvestigator: Stephen E. Foh

- **Objective:** Demonstrate the use of inert base gas as a technically feasible and economically viable option for reducing the cost of operating underground natural gas storage facilities.
- **Description:** GTI researchers are evaluating the use of nitrogen as an inert gas in underground natural gas storage fields to reduce base gas cost. The project consists of three phases: 1) laboratory studies on inert and natural gas mixing properties in underground storage media, 2) a field demonstration at an existing gas storage field in the U.S., and 3) technology transfer efforts toward wide-scale implementation.
 - Status: Field experience obtained from France, -- where inert gas has successfully reduced base gas requirements in underground gas storage fields by as much as 20%--, suggested that this approach is technically feasible. Laboratory tests on a number of cores from storage fields in the United States and France, representing different rock types and covering a wide range of porosity and permeability distribution, were completed to verify that mixing of natural gas and inert gas is generally limited to a very narrow zone. This allows replacement of base gas with a lower cost inert gas. A systematic approach consisting of site selection, data evaluation, modeling, and implementation planning was developed for the selection of candidate storage fields and minimization of the risk of gas mixing during inert gas application.

Current work is focused on a field demonstration at the Shirley storage field, operated by Equitrans. Selection of the inert gas injection target area and reservoir modeling, to characterize the storage reservoir and predict long-term storage operations in the presence of inert gas, have been completed. The long-term (20 years) predictive model runs indicated that a significant portion of the base gas can be replaced with nitrogen without jeopardizing the pipeline quality of withdrawal gas. In addition, inert gas injection in the Shirley field should prove beneficial in terms of cutting down natural gas migration.

Equitrans prepared the necessary FERC filings and received approval during the summer of 1996 to inject inert gas in the Shirley field. Equitrans completed the necessary contracts for the purchase of nitrogen. Gas withdrawal from the target area has begun, and to date, more than 150 MMcf of natural gas has been withdrawn. Inert gas will then be injected into this target area. Plans are to initially inject 300-MMcf of nitrogen representing 5% of the total base gas, over a period of two years while simultaneously withdrawing natural gas. Since this project is demonstrating success in the field, only periodic monitoring of ongoing work is needed with very little added cost to SMP.

SYSTEM FOR UPGRADING SUBQUALITY NATURAL GAS

Project:

Period: 4/1/90 - Present

Project Raj Palla

Manager: e-mail: raj.palla@gastechnology.org

80018

- **Objective:** To reduce the cost of upgrading subquality natural gas by developing cost-effective solvents and absorption systems.
- <u>Description</u>: Essentially all of the natural gas in the United States is treated, to some degree, prior to its introduction into the pipeline system for transportation to the consumer. This DOE coordinated project focuses on the commercialization of our Morphysorb[®] process that uses the physical solvent, N-Formyl-Morpholine (NFM) and such additives as N-Acetyl Morpholine (NAM).
 - Status: A new physical solvent process, Morphysorb, has been developed for subquality gas upgrading. This technology is effective in removing H₂S and CO₂ from subquality natural gas with minimal removal of valuable hydrocarbons. The high performance of Morphysorb reduces gas treatment investment and operating costs by up to 60% over existing, state-of-the-art physical solvent technologies. In lieu of operating cost savings, existing plant capacities may be significantly increased. Extensive field trials were carried out on a slipstream of subquality natural gas at the Shell Fandango plant site in south Texas.

The technology is licensed to Krupp Uhde USA, which is an affiliate of Krupp Uhde GmbH (KU), Germany. KU is a major engineering contractor in Germany with worldwide experience in the field of process plants for refineries and, petrochemical, coal gasification facilities, coking plants, and coke oven gas processing.

Efforts are being concentrated in getting the first demonstration scale plant installed.

Pursing an opportunity with a client plant (500 MMscFd) in BC, Canada for bulk acid gas removal (20 to 12% Co₂. Client is interested in application of Morphysorb process for their existing plant to increase capacity.

Obtaining funding from DOE (NETL) to support Morphysorb process demonstration (simulation, test data collection/analysis only) at a client site.

In addition to the above, GTI, along with its commercial developer will jointly pursue conversion of existing commercial gas plants to Morphysorb process. There are little or no major modifications needed to the existing plants for introduction of Morphysorb technology in place of the current.

THIRD-PARTY DAMAGE DETECTION

Project: 80038

Period: 12/1/98 - Present

Project James E. Huebler

Manager: e-mail: jim.huebler@gastechnology.org

<u>Objective:</u> The objective of this program is to develop and deploy a cost effective, acousticbased detection system that will notify pipeline operators of 3rd-party damage. Initial deployment will be at construction sites and highly trafficked urban sites.

Description: Transmission pipelines may be subjected to large impact forces from 3rd-party excavating equipment. Such impacts may immediately create a hazardous condition or increase maintenance and rehabilitation costs for utility companies. It is possible to damage the pipe in a manner that results in a leak several years later. Such developing leaks are very hard and expensive to identify and locate. A system that can detect the initial contact and quickly alert the pipeline operator would permit prompt corrective action.

When an excavating tool makes contact with the pipe, it creates acoustic waves that can propagate for great distances. It is possible to use these sound waves to detect contact with the pipeline and alert the pipeline operator to a potentially damaging incident. Many applications require operation of damage detection systems in areas that are subject to significant background noise. Thus, it is important to minimize any false alarms. An effective system must filter out background noises created close to the sensor while detecting small impact signals that propagate long distances from the point of impact.

The SMP approach is to utilize adaptive filtering techniques that have successfully suppressed background noise in acoustic leak-pinpointing as the first step in noise management. These signal processing techniques would be combined with commercial hardware including sensors capable of very small acoustic signals, a single board computer, and a commercial communication system. The hardware shall be compact enough to be installed with keyhole excavations, thereby minimizing installation costs.

Status: Even before the combination of IGT and GRI into GTI, third party damage detection had a high priority. Separate programs were funded by FERC and SMP. Both programs are based on acoustic detection of the impact signal. The efforts have been consolidated. With FERC funding, SMP researchers are helping demonstrate the GTI FERC system in New Jersey. Currently, the SMP funded effort is on hold and will be resumed when and if appropriate.

10

HIGH-PRESSURE LINERS

Project: 80040

Period: 4/1/99 - Present

Project Bruce Campbell

Manager: e-mail: bruce.campbell@gastechnology.org

Objective: To develop cured-in-place liners for high-pressure applications.

Description: Cured-in-place liners are a family of trenchless pipe rehabilitation methods that can seal existing pipe leaks and prevent future leakage due to corrosion, joint failure, or third-party damage. The high-pressure liner (HPL) system will utilize a woven elastomer jacket coated on one side with an extruded elastomer coating. An epoxy adhesive, applied under pressure, will glue the jacket to the inside of the pipe. The woven elastomer jacket provides structural strength to the liner, while the coating acts as a natural gas barrier preventing the migration of gas through the liner.

The development of the HPL is targeted at two major pipeline industry needs. The first is the rehabilitation of gas pipelines to seal existing leaks or prevent future leakage. This includes current or anticipated leaks in buried pipelines at oxy-acetylene and other girth welds, at third-party damage points, or to prevent joint failures due to earth movement. River crossings may also warrant the extra protection. The second pipeline industry issue addressed by the HPL is the adverse effect of a change in DOT pipeline class location on pipeline operations. Under DOT regulations, the encroachment of habitable buildings or areas of frequent public gatherings near a pipeline right-of-way may require that a pipeline reduce its operating pressure or replace segments of the pipeline with higher strength pipe. Although this provides for a greater margin of operational safety, it also represents two negative impacts on pipeline operations: a reduction in gas throughput, and thus revenues, or a significant expense in pipe replacement. A less expensive and disruptive alternative to these choices is the use of the HPL.

- Status: GTI and its commercial partner, Karl Weiss GmbH & Co., have developed a detailed development plan that we are following. To date, this is a partial list of the following work that has been completed.
 - Analyzed ASME B31G code for appropriate test parameters to prove liner strength. GRI reports and the people that managed them are an important part of our work. Work by expert consultants in the transmission field was effective. We have to prove it is stronger than plain steel, obviously, but also to get a class change improvement.
 - Designed test pipes. We had to make the vast matrix of possible tests reasonable. We did. We purchased the test heads and are building the pressure test facility useable to 3000 psig.
 - Developed and tested candidate liner fabrics for burst strength. Our German friends did a great job. Marketing study suggest staged introduction, 150[#], 500[#], and 1000[#].
 - Identified and tested several low permeation coatings. Found excellent coating with required elastic strength. This coating is a major breakthrough, and is not known to our competitors. We have to prove it does not blister with pressure fluctuations a past liner or two didn't pass this test.



HIGH-PRESSURE LINERS con't

• The Stage 1 HP Liner (up to 250 psig) has been manufactured. The project has been delayed due to lack of funding to build the new pressure drum for installation. This drum would facilitate field trials in 2002.

PROJECT SUMMARY SHEETS

ENVIRONMENTAL SCIENCE & TECHNOLOGY

.

REMEDIATION OF TOWN GAS SITES

Project:	80014	Period: 10/1/86 - Present
Project Manager:	Vipul J. Srivastava e-mail: vipul.srivastava@gastechnology.org	Principal g Investigators: Thomas D Hayes
Objective:	To develop and deploy cost-effective remediation technologies and site management strategies for the remediation of major types of wastes at former manufactured gas plant (MGP) sites.	
<u>Description:</u>	Since the year 2000, the focus of this research program, coordinated with significant funding by GTI-FERC and industry, is on the development and deployment of primarily <i>in-situ</i> remediation technology for a highly concentrated source material and "dense non-aqueous phase liquids" (DNAPL). This technology, ThermoChemical Solidification will work in tandem with previously developed SMP funded technology, integrated chemical-biological treatment (CBT) process for moderately contaminated soils at the MGP site. GTI has received three patents including U.S. Patent Numbers. 5,610,065 and 5,955,350 for CBT process and is submitting applications for two patents associated with ThermoChemical Solidification (TCS) technology. GTI has agreements in place with several commercial firms for deployment of the CBT Process as well as a mechanism within GTI to offer commercial service associated with CBT and TCS technologies. In addition, this project is developing risk-based approaches to managing contaminates sediments. The sediment management approach is based upon a highly successful program of GTI, the environmentally acceptable endpoint (EAE) program.	
Status:	TCS technology has the potential to succe contaminated material "non-hazardous" in data necessary to design the field implement	essfully render DNAPL and other highly an in-situ manner. Research will develop tation protocols during 2001-2002.
	Our CBT Process can degrade PAHs at a conventional bio-remediation. Full-scale re	faster rate and to a greater extent than mediation using land-farming techniques,

conventional bio-remediation. Full-scale remediation using land-farming techniques, as well as, field experiments using slurry tanks have demonstrated the effectiveness of this integrated process. Field tests confirm that this process can meet some of the most stringent state clean-up guidance standards. Treatment costs for CBT is very reasonable.

A couple of full-scale remediation projects are, already underway that utilize GTI developed processes and/or site management practices.

MICROBIAL LEAK DETECTION & CONTROL

Project:80047Period: 01/01/2002-PresentProjectJ. Robert PaterekPrincipalManager:e-mail: robert.paterek@gastechnology.orgInvestigators: J. Robert Paterek

<u>Objective:</u> To develop and deploy a biosensor system to detect and pinpoint pipeline leaks while concurrently originating/employing a pipeline leak "patch" using complementary bioengineered technology developed in the first objective.

Description:

Leak pinpointing using biosensor system. Most bacterial species produce hormone or pheromone-like chemicals while growing in communities, such as found in leaking pipelines in sandy soils, i.e. encrustations, nesting, and paydirt. These compounds enable bacteria in these communities (consortia or biofilms) to monitor and even control their population density in a process known as "quorum sensing." These compounds which are used for a very sophisticated bacterial communication system may be detectable from the surface using biosensors to pinpoint leak locations without massive excavation. Since these bacteria communities consume the natural gas and coat or nest around the leaks, these activities minimizes the successful application of commonly used detectors, such as explosive gas detectors and sonic sensors. The proposed biosensor would use these microbial activities to detect the leak in sandy soils and possibly other backfill material. The biosensor can be extremely sensitive and the signal quantified to ease in pinpointing and sizing the pipeline leak in order to supplement or replace the commonly employed leak detectors mentioned above.

Pipeline leak control by bioengineered patch technology. The widely reported observation of the occurrence and activity of microorganisms associated with pipeline leaks reported as encrustation, nesting, or paydirt indicate the possibility to use this phenomenon to minimize or block these leaks. By understanding how and why encrustations occur (in "real world" and simulated sites), a bioengineered technology could be created to increase the rate of encrustation formation and broaden their occurrences under various soil or backfill conditions. This technology has a number of financial and safety advantages, for example, the "biological patch" would minimize or block the leak without excavation at low cost with the concurrent removal of natural gas from the leak vicinity to minimize explosion risk.

Status: Our laboratory is prepared to initiate this technology development in both leak pinpointing and leak mitigation (biological leaking pipeline patches) with the award of the requested funding. Expertise with the causative microorganisms from encrustations, biosensors, and soil microbial ecology need for "biological patches" exists in our laboratory. Preliminary work on previously collected encrustations from pipeline leaks have indicated proof-of-concepts for the proposed technologies, as well as identified some techniques required.

PROJECT SUMMARY SHEETS

·

-•

ENERGY UTILIZATION

HIGH-EFFICIENCY PROCESS HEATING (GLASS, ALUMINUM, STEEL, ETC.)

Project:

Period: 4/1/91 - Present

Project David Rue

80024

Manager: e-mail: david.rue@gastechnology.org

- **Objective:** To reduce NO_x emissions from regenerative glass melting furnaces while providing higher productivity and maintaining melt quality.
- **Description:** A technique of oxygen-enriched air staging (OEAS) has been developed for reducing NOx emissions from glass melters with funding from SMP, GTI, Southern California Gas Co., and the U.S. Department of Energy. The technique requires only minor plant modifications. It reduces the combustion air to the burner to retard NOx formation and injects air (with oxygen enrichment) downstream in the furnace to complete the combustion. This technology also improves furnace production rates and avoids expensive options such as oxy-gas firing and electric boosting, thus avoiding plant closings in a market that uses over 200 BCF/y of natural gas. The OEAS process received an *R&D 100* award in 1996. U.S. Patent No. 5,203,859, Canada Patent No. 2,094,690 and EPC Patent No. 567131B1 have been issued.
 - Status: GTI and its commercial partner, Combustion Tec, Inc. (CTI), a division of Eclipse Combustion, first demonstrated the OEAS technology on endport regenerative glass furnaces. Three furnaces, operated by Anchor Glass Corporation, were converted: a 150 ton/d furnace producing flint glass in Huntington Park, CA; a 200 ton/d furnace producing amber glass in Houston, TX; and a 320 ton/d flint glass furnace, also in Huntington Park, CA. As a result of the successful field conversions, showing 50% to 70% NO_x reduction, CTI and Air Products and Chemicals both licensed the OEAS technology.

OEAS was subsequently extended to sideport furnaces. Sideport furnaces provide nearly 65% of U.S. glass production. Owens-Brockway Glass Containers, the largest container glass producer in the U.S., hosted a field test of the OEAS technology on one of its sideport furnaces in Vernon, CA. The modified furnace has been in operation since February 1997. A 40% reduction in NO_x levels is providing a lowcost control method for compliance with present local and state emission regulations.

Commercial introduction has been very successful. OEAS has been installed on 7 endport and 3 sideport glass furnaces. Additional American and European furnace are being considered for OEAS application.

GTI, with funding from SMP, GRI, NYSERDA, and U.S. DOE, is also investigating the use of a high luminosity burner to further reduce NO_x and increase productivity on oxy-gas glass furnaces. U.S. Patent No. 5,725,366 has been issued.. Prototype 0.5 and 3 MM Btu/h oxy-gas, high-luminosity burners have been tested at GTI and CTI laboratories. These burners were found to increase thermal efficiency by more than 10 percent. Field testing of a 3 MMBtu/h commercial-scale burner on an Owens Corning fiberglass furnace and a 20 MMBtu/h burner on a PPG flat glass furnace has been ongoing since Nov. 2001. Both burners are performing well. GTI and Combustion Tec will complete the full conversion of the OC fiberglass furnace in the spring of 2002, and a new DOE NICE3 project will allow full conversion of a PPG flat glass furnace to high luminosity burners. This technology is expected to become commercial in 2002.

LOW-NO_x BOILER BURNERS

-		
Project	Richard A. Knight	Principle
Manager:	e-mail: rick.knight@gastechnology.org	Investigator: David F. Cygan

Project:

80029

- **Objective:** To develop low emission burners for firetube and watertube boilers. One burner line will be designed to produce less than 10 vppm NO_x.

This project receives significant co-funding from U.S. DOE and GTI-FERC. Our industrial partner is Coen Company Inc. for watertube boilers, Johnston Boiler Company for firetube boilers, and Peabody Engineering Corporation for mulit-fuel watertube boilers in the steel industry. Two patents, U.S. Patent No. 5,350,293 and No. 5,462,430 have been awarded. See also concluded project 80022 entitled "Low-NO_x Burner for Firetube Boilers."

Period: 6/1/94 - Present

Status: After initial tests of smaller concept burners at GTI, a 20 X 10^6 Btu/hr prototype FIR burner was designed and is in operation on a watertube boiler system at Detroit Stoker's production plant in Monroe, Michigan. NO_x emissions have been lowered from 85 vppm to less than 10 vppm. Both CO and unburned hydrocarbon emissions are very low. The burner is able to achieve these low emissions over a 4 to 1 turndown ratio without flue gas recirculation or diluent injection. The burner has demonstrated stable performance over a three year period of continuous operation.

More recently, a 60 X 10^6 Btu/hr burner was installed on a Keeler watertube boiler at a Brewery in Southern California. Performance targets for NO_x and CO emissions were met at 18 to 60 X 10^6 Btu/hr NO_x <9vppm and CO <30 vppm were achieved. The ability of the burner to achieve full load was demonstrated. The burner has been prepared to operate in automatic regime and providing steam for plant operations since July 2000.

In a parallel effort, the FIR burner technology was chosen by the Department of Defense (DOD) for a demonstration at the Vandenberg Air Force Base (AFB) in California for small firetube and firebox boiler systems. This is a joint program between DOD and U.S. EPA entitled ENVironmental InVESTment (ENVVEST) which aims to bring defense installations into regulatory compliance. Vandenberg AFB has been selected as a DOD showcase. Our burner has already logged over two years of operation and is successful in meeting the design goals for this site: NO_x emissions of less than 20 vppm.

GTI is now working with our commercialization partners to transfer and license know-how for the manufacturer of a new low-emission family of FIR burners.

METHANE de-NO_x[®] REBURN PROCESS FOR COAL/BIOMASS-FIRED STOKER BOILERS

Project:

Period: 10/1/94 - Present

Project Bruce Bryan

80030

e-mail: bruce.bryan@gastechnology.org

Objective: To demonstrate the use of the METHANE de-NOX[®] reburn process as a control technique for reducing emissions from coal/biomass-fired stoker boilers.

Description:

Manager:

About 6,000 stoker boilers are currently in operation in the United States. Historically, stokers have had problems with gaseous and particulate emissions, erosion, slagging, and fouling. Many are turning to ammonia/urea injection to control NO_x emissions; however, ammonia-slip and maintenance problems are causing serious concern and cost increases. This provides the opportunity for natural gas to capture a portion of this load by injecting 10% to 25% natural gas for NO_x control.

GTI has developed a natural gas reburning technology, METHANE de-NOX[®] with funding support from SMP, GRI, DOE, and several gas utilities. See U.S. Patent Nos. 5,020,456, 5,205,227, 5,307,746 and related foreign patents. The technology reduces NO_x emissions below current EPA regulation levels without increasing other undesirable emissions. Natural gas is injected together with recirculated flue gases (for enhanced mixing) above the combustion grate to create an oxygen-deficient zone. Overfire air is then injected at a higher furnace elevation to burn out the combustibles. This process effectively reduces NO_x emissions by 50 to 70% and improves boiler efficiency by 1 to 2%. This technology received an *Environmental Prize* in Japan, a *GRI Pace Setters Award*, a *1997 R&D 100 Award*, and in 1999 an a *1999 American Forest and Paper Association Environmental and Energy Achievement Award*.

Status:

System designs are based on extensive pilot-scale development work and successful field evaluations. Technology demonstrations were conducted on a coal-fired plant owned by Cogentrix in Richmond, Virginia, on municipal solid wastes at the modern Olmsted County waste-to-energy facility in Rochester, Minnesota and by TAKUMA CO., LTD in Japan. Current project work further demonstrated this NO_x control technique on a wood- and sludge-fired stoker boiler. A METHANE de-NOX[®] system was retrofitted on Boise Cascade's hog fuel boiler at it's paper mill in International Falls, Minnesota. At present, the system has logged over 27 months of full-scale continuous operation. During this time the technology demonstrated stable and operator-friendly performance characteristics. No negative impacts from long-term operation have been observed.

Results from a long-term performance comparison of the hog fuel boiler by the I. Falls mill showed that for the year 2000 with METHANE de-NOX® in operation, \$770,000 was realized in savings compared to 1999 without METHANE de-NOX®. Annual sludge disposal and handling was reduced by 3,900 tons and emissions of NO_x decreased by 52 tons.

METHANE de-NOX[®] REBURN PROCESS FOR COAL/BIOMASS-FIRED STOKER BOILERS con't

Commercial introduction of this technology has been highly successful. The METHANE de-NOX® reburn process is in operation on all eight coal-fired stoker boilers at the 240 MWe Cogentrix power plant in Richmond, Virginia. In Japan, TAKUMA has announced two commercial sales for municipal waste-to-energy plants. Furthermore, Boise Cascade is seriously considering the technology for its hog fuel boilers at their Wallula, DeRidder, and Jackson pulp and paper mills. Baseline boiler testing for a METHANE de-NOX® retrofit at Wallula and also at a GEORGIA-PACIFIC mill in Port Hudson, LA.

This technology promises to capture a significant new load for natural gas. TAKUMA CO., LTD has licensed the process in Japan and license negotiations are underway for the U.S. with Energy Systems Associates.

OSCILLATING COMBUSTION SYSTEMS

Project:80031Period: 1/17/95 - PresentProjectHarry S. KurekPrincipalManager:e-mail: harry.kurek@gastechnology.orgInvestigator: John Wagner

- <u>Objective:</u> To develop a simple, cost-effective retrofit technology to increase productivity and reduce NO_x emissions from natural gas-fired, high-temperature industrial furnaces such as melters, reheat furnaces, calciners and forging furnaces.
- **Description:** Oscillating combustion uses oscillation of the fuel and/or oxidant flow rate(s) to a combustor to create successive, fuel-rich and fuel-lean zones within the flame. This increases heat transfer (and therefore productivity) by enhancing flame luminosity and turbulence. NO_x formation is reduced by avoiding stoichiometric combustion. In its simplest form, oscillating combustion is obtained by installing an oscillating valve and controller on the fuel supply line of existing burners.

GTI has obtained a patent (U.S. Patent No. 4,846,665) and has teamed with Air Liquide to develop this technology. GTI efforts are aimed at developing air-gas oscillating combustion, while Air Liquide, with substantial in-kind co-funding, has been developing oxy-gas oscillating combustion. This strategic collaboration project has been co-funded by the California Air Resources Board, Columbia Energy Group - Energy Consulting Services, Gas Technology Canada, GTI-FERC, Southern California Gas Company, and the U.S. Department of Energy - Office of Industrial Technologies.

In coordinated efforts, CeramPhysics, Inc. developed a solid-state proportioning (SSP) valve, now licensed to Safmatic (an Air Liquide affiliate), and GT Development Corporation developed a rotating disc valve ideal for use with oscillating combustion.

Status: We have evaluated oscillating combustion on standard industrial burners used in the steel, glass, metals, and ceramics industries. Tests at GTI and Air Liquide on these commercial burners have shown that oscillating combustion can provide up to a 13% increase in heat transfer while reducing NO_x emissions by up to 75%.

Several field demonstrations have been completed on air-gas fired furnaces. Oscillating combustion was tested on a stack annealing furnace at a Bethlehem Steel plant, with results of 2-5% energy savings and 32% NO_x reduction. Test on a forging furnace at Shultz Steel showed a fuel savings of up to 3% and a NO_x reduction of up to 49%. A steel plate reheating furnace will soon be converted at a Bethlehem Steel site. A recent oxy-gas conversion on a glass melter in Texas, now in operation for 28 months, was highly successful. Fuel use and oxygen use have been reduced by 4% and 10-12%, respectively, while NO_x emissions have been reduced by 55%. The crown temperature has been reduced by 30°-50°F, which leads to improved furnace operation. Conversion costs for this technology are very low. Air Liquide has obtained a worldwide, exclusive license for oxy-gas applications and a non-exclusive license for air-gas applications. GTI has recently licensed Synergistic Partners, Inc., a combustion and process control equipment supplier, for air-gas applications.

HIGH CAPACITY GAS-FIRED PAPER DRYING

Project:80042Period: 8/15/95 - PresentProjectHarry S. KurekPrincipalManager:e-mail: harry.kurek@gastechnology.orgInvestigator: Yaroslaw Chudnovsky

- **Objective:** The primary objective of this project is to provide experimental confirmation of the technical and economic feasibility of an innovative, low cost, natural gas-fired cylinder paper dryer based on the dimple combustion concept, which would be suitable for both retrofit and new installations.
- **Description:** GTI is developing an innovative approach to natural gas-fired combustion systems designed for applications in paper dryers. This has the potential of significantly improving the drying efficiency, decreasing specific energy consumption and overcoming the limitations of pre-mixing while still producing stabilized combustion. The approach involves combusting natural gas and combustion air in relatively smalldiameter hemi-spherical dimples. Natural gas is injected inside the dimple, while combustion air is supplied on the outside. The flow of combustion air generates a vortex inside the dimple, which result in excellent mixing of natural gas and air and creates highly stable combustion within the cavities. Each fired cavity forms its own flame that interacts with the flames from other dimples forming the vortex flame pattern. Preliminary tests have shown that combustion is stable over a wide range of air velocities. The flow of combustion gases together with radiation from the flame provides high convective as well as radiative heat transfer rates. Combustion air is progressively preheated by hot exhaust gases, thereby resulting in a thermal efficiency of over 75%.

Status: A Consulting Agreement between GTI and Professor Raymond Viskanta (Purdue University) was fully executed.

A dimple-combustion bench-scale unit (BSU) was fabricated according to the set of drawings by a local manufacturer (National Metal Fabricators, Inc.):

- set of 5 dimpled plates
- set of 20 natural gas injectors
- two test sections (1.5" and 3/8" height)
- inlet air preparation chamber
- two transition sections
- exhaust section
- frame and stand
- natural gas flow control unit (17 rotameters and valves)

During the BSU fabrication period GTI worked closely with the manufacturer in engineering support of fabrication. The BSU was delivered to GTI's Applied Combustion Laboratory (09-21-01), assembled and shakendown.

Two site-review visits have been made to Western Michigan University in Kalamazoo, Michigan, to obtain pertinent information about the pilot scale paper dryer. A Test Matrix was prepared and testing was undertaken. Test results are currently being evaluated.

SUPER BOILER

Project: 80043

Period: 11/01/00 - Present

Project Richard Knight

Manager: e-mail: rick.knight@gastechnology.org

Objective: To develop advanced steam generation technologies to meet industrial needs in the next 20-25 years. It is envisioned that the Super Boiler will achieve ultra-high efficiency, will be smaller and lighter, cost less to manufacture and maintain, and produce ultra low emissions. Specifically, it is aimed at providing to gas customers: (1) 95% boiler thermal efficiency (2) 25% less manufacturing and maintenance cost (3) a foot print that is 50% smaller than similar sized conventional boilers; and (4) units that meet emission regulations beyond 2005.

- **Description:** This project will investigate and apply fundamental concepts in combustion, heat transfer, and heat recovery related to steam generation. Modern boiler design concepts will be scrutinized in the process of developing a long-range RD&D program plan. At the same time, a first-generation Super Boiler will be designed and demonstrated with several innovative technical concepts in order to move significantly toward the stated goals. These advanced concepts include ultra-low-emissions combustion technology, high-intensity heat transfer methods, and heat recovery through flue gas moisture removal and latent heat recovery. All of these elements will be integrated into a compact boiler design. This prototype Super Boiler will then be built and field evaluated.
 - Status: GTI and its funding partners, DOE, SoCal Gas, and SMP are focused on the first task of developing the concept for the Super Boiler. This includes designing a laboratory scale design using various technologies that will undergo vigorous testing to meet or exceed both the environmental and ultra efficiency goals. The work is expected to result in a prototype design, fully evaluated and ready for scale up by early 2005. A technology and economic assessment study is scheduled for completion by mid-2002. The eventual product is aimed at serving the majority of large industrial, commercial, and institutional boilers throughout the world. Estimated savings to U.S. industry alone with Super Boilers capturing a majority of the market would be over \$10 billion per year.

SELF OPTIMIZING COMBUSTION SYSTEM

l

Project:	80044	Period: 8/15/95 - Present
Project Manager:	David Rue e-mail: <u>david.rue@gastechnology.org</u>	Principal Investigator: Serguei Zelepouga
<u>Objective:</u>	To develop an advanced natural-gas-fired, process.	high-temperature melting and/or fixation
Description:	 To successfully meet the targets of this advanced combustion system, several proven combustion control technologies must be combined. These include: Firing a burner in a reverberatory furnace under oxygen-enriched conditions to improve energy efficiency, raise furnace production rate, reduce NO_x emissions, and not damage the refractory Designing and operating a burner with an adjustable flame shape, a 'flex-flame' burner, that can undergo flame shape adjustment at constant firing rate and can maintain flame shape at changing firing conditions Using a non-intrusive optical sensor, such as a chemi-luminescent C2+ sensor, to monitor and control the flexible burner Maintaining a hybrid flame with two reaction zones: a fuel-rich reaction zone above the surface of the bath to prevent oxidation and dross formation, and a fuellean combustion zone on the top of the flame to complete burnout of carbon monoxide and unburned hydrocarbons Decreasing dross formation by eliminating bath exposure to oxygen and by controlling temperature of the bath Integrating the flex-flame burner(s) with the optical sensor using an advanced combustion control system 	
	All of these combustion system character efficiency low-dross combustion system increased production rate, higher energy e generation.	for reverberatory furnaces to provide efficiency, and significantly lower dross
<u>Status:</u>	 To date, the following has been accomplishe Lab-scale flex flame burner was designed Flue gas – aluminum melt chemical physic Flame sensor was designed, fabricated, as SOCS computerized flow control system Varies flame's configurations, including of been established and tested Optical measurements of the flex flames proventional flame and flue gas measurements 	ed: I, fabricated, and tested ical and interactions were investigated. ssembled and tested has been designed fabricated and tested. oxidizer controlled hybrid flames have parameters have been validated with ments
<u>Next:</u>	A pilot-scale version of the flex-flame burner burner will be tested independently and toge After successful laboratory trials, a commer- tested on an aluminum reverberatory furnace	er is currently being designed. This other with the flame rich/lean sensor. cial-scale burner will be fabricated and e for scrap aluminum melting.

SUBMERGED COMBUSTION MELTER

Project: 80033

Period: 8/15/95 - Present

Project David Rue Manager: e-mail: david.rue@gastechnology.org

<u>Objective:</u> To develop an advanced natural-gas-fired, high-temperature melting and/or fixation process.

<u>Description:</u> Submerged combustion melting is a natural gas-fired combustion technology with applications in a wide range of industries. Natural gas and oxidants are fired into and under the surface of a bath of melted material. Combustion products bubbling through the bath create turbulence, which provides very effective heat transfer and enhances melt homogeneity. The overall gas temperature is reduced, and NO_x formation is consequently lower. In addition, feed materials are added in a manner that traps condensables and returns them to the bath. The thermal efficiency of the melter is increased by complete conversion of any organic material in the melt. Producing a melt by this process has significant cost and operating advantages over other high-temperature melting methods. U.S. Patent No. 4,877,449 has been issued.

This technology is already in commercial use in the Ukraine and Belarus for the production of mineral wool using air-natural gas firing techniques. Further development using oxygen-natural gas (oxy-gas) firing should provide an effective method for producing a number of mineral melts and should be more effective in treating difficult wastes with a minimum of pretreatment.

Status: A 500 lb/hr submerged combustion melter has been installed at GTI. Oxy-gas fired demonstration tests have been conducted using basalt, basalt/dolomite, cement kiln dust (CKD), and sodium silicate feed materials. Excellent melt products were produced over a wide range of operating conditions. Efforts are focused on developing SCM for the most promising applications. Engineering feasibility studies have identified these applications, and they include production of mineral wool, glass melting (sodium silicate, fiber, etc.), recycle of scrap fiberglass, blended cement production from cement kiln dust, and vitrification of hazardous and non-hazardous wastes such as electric arc furnace (EAF) dust and spent aluminum potliner.

SCM engineering feasibility studies have been completed for three mineral wool plants. These studies show significant savings and dramatic reductions in solid and gaseous wastes over current production methods while providing a 2 to 4-year return on investment for sites in Indiana and North Carolina. A detailed engineering assessment, conducted with SMP and GRI support, has been completed for one of these mineral wool companies.

Licensing negotiations are in progress for the first U.S. submerged combustion melting plant. An independent company will use this facility to convert electric arc furnace dust and other wastes to valuable by-products including loose grain blast abrasives.

PROJECT SUMMARY SHEETS

•

-•

ENERGY SYSTEMS

BCHP/ADVANCED COOLING SYSTEMS

Project:

Status:

Period: 10/1/88 - Present

Project Marek Czachorski Manager: e-mail: marek.cza

80016

Marek CzachorskiPrincipale-mail:marek.czachorski@gastechnology.orgInvestigators:

Marek Czachorski KenKountz William Ryan

Objective: To assess, design, and test new concepts for natural gas cooling systems.

Description: The goal of this project is to evaluate new and advanced gas cooling concepts designed to offer a significant improvement in overall efficiency and to reduce the cost of gas cooling equipment. Significant co-funding is provided by GTI-FERC.

A computer program is available that analyzes the effectiveness of using mixed refrigerants in heat pumps. Two patents, U.S. Patent No. 5,165,254 and No. 5,186,012 have been granted.

In the previous stage of the program studies of using spray absorbers in multi-effect absorption systems to reduce cost and unit size were completed. In cooperation with Trane Co. we evaluated the effectiveness of this spray system in a new triple-effect absorption chiller and developed an initial design concept that showed a definite cost saving potential.

Currently, we are working on advanced desiccant systems. We are evaluating a broad range of desiccant materials and matrices. These are the most important and expensive building blocks of desiccant cooling and dehumidifying machines. New, low-cost and low reactivation temperature desiccant wheels have been identified and performance testing is in progress. We are also designing improved desiccant dehumidifier control systems.

In a concurrent effort, two sophisticated software tools have been developed to aid in the evaluation and marketing of gas cooling equipment. The first, DESICALC[®]. allows users to run simulations that compare building energy costs for desiccant dehumidifier-enhanced equipment versus a wide range of conventional airconditioning units. The second, a Gas Cooling Guide, provides easy-to-understand technology descriptions, a large library of case studies, an extensive product catalogue, and economic analyses for numerous gas cooling applications. The tool compares the performance of conventional electric equipment with natural gas absorption, engine-driven, or desiccant cooling systems. Both software tools include templates for 14 typical commercial applications and include the DOE 2.1E computational engine to assure accuracy. Both programs accept user supplied utility rates. Typical utility rates for 16 major North American cities are provided. In addition, the most current weather database - NREL TMY2 - for over 230 cities in the United States is incorporated. To distribute these software products InterEnergy Software, Inc. has been formed. (See www.interenergysoftware.com.). Over 1,200 professionals are already using the products purchased from this company. Newest version of the Gas Cooling Guide, GCG Pro serves the needs of HVAC designers, facilities managers and operators, and utilities and equipment marketing professionals. This version of the software also allows evaluation of HVAC equipment retrofit options. Currently, an upgraded 32-bit version of all three software products, compatible with Windows 2000 operating system, are being released.

NGV FUELING STATION AND COMPONENTS

Project:	80009	Period: 10/1/85- Present
Project Manager:	John A. Kinast/ William E. Liss e-mail: john.kinast@gastechnology.org/ william.liss@gastechnology.org	Principal Investigators: John Kinast
Objective:	Develop a dedicated natural gas-fueled vehicle technology base to support the use of natural gas as a transportation fuel.	
Description :	The focus of this coordinated GTI research project is to reduce the cost and/or improve the performance of NGV fueling stations. Current activities include (1) the design and development of a new CNG dispenser, (2) testing and deployment of an integrated CNG fueling system, and (3) revision to the GTI-developed CASCADE NGV fuel station sizing program. The revised CASCADE program will incorporate new features, including an option for hydrogen fueling.	

Status: In the advanced dispenser task, we are working with Tulsa Gas Technologies – a leading dispenser manufacturer. The TGT lower-cost CNG fueling dispenser, provides advanced features such as an integrated card reader, keypad, and receipt printer. The dispenser provides a lower installed-cost alternative to the separate dispenser and customer pedestal currently in use. The new dispenser consolidates functions within one cabinet and reduces the overall component count. The dispenser electronics have received CSA approval. The dispenser allows "near plug and play" upgrading from the basic model with card reader or printer when desired by the owner.

In the fueling station task, the City of Chicago approved an ordinance to sole-source the project to GTI. GTI is working with Chicago and the other Municipalities to deploy nine standardized CNG stations packaged. The stations will be installed during 2001.

These fueling stations will be similar in design to support replication and relocation. In addition to the station installation, GTI will provide start-up and operational training and coordinate maintenance services and emergency backup supply. This will serve as input into the industry effort to develop a "best practice" guideline for NGV fueling stations. A Phase II program will target the installation of other stations during 2002 in the Chicago metro area.

On the CASCADE fuel station sizing task, work has begun to update this program to make it compatible with current versions of Windows and to add in new features requested by users. The revised version will also include an option to permit fill analysis using hydrogen.

DETC – Advanced Distributed Generation Controls

Project:	80041	Period: 2/1/00 – Present
Project Manager:	Ted Bronson e-mail: ted.bronson@gastechnology.org	Principal Investigators: Todd Kollross Mike Connolly

- **Objective:** To provide a facility and expertise for testing and monitoring of small (10-300 kW) power generation equipment (microturbines, reciprocating engines, fuel cells, and associated heat recovery equipment) geared for distributed generation applications in commercial and residential markets.
- **Description:** The Distributed Energy Test Center (DETC) is being designed for two primary purposes: 1) To provide a facility to prove performance (efficiencies and emissions) of equipment, systems, and control schemes associated with small scale Distributed Generation applications prior to its implementation in the field and major utility investment, and 2) To provide remote web- based monitoring capability of multiple installations to build a case for the reliability performance of these distributed generation units. It is the intent of the DETC that it be utilized by member utilities to test and prove applications that are designed specifically for use at their client's facilities (such as specific hotels, convenient stores, supermarkets, nursing homes, etc.). The testing performed will be designed specifically for each unique application and installation to minimize risks associated with installation of this equipment at member client's facilities. An advisory group of SMP members (the DEAG) has been established to provide direction to the DETC and to advise GTI of additional projects that can accelerate deployment of DG technologies.

The original facility design has been steered towards the testing of microturbines. To prove that the equipment will perform under worst case environmental conditions, the test center is designed to vary electrical load, intake air temperature, gas pressure, air intake pressure, and exhaust pressure, and record parameters on a data acquisition system. To put electrical load on the equipment, the initial test center is equipped with load banks, however, interconnection and enhanced power quality monitoring capability is currently being added. Remote monitoring system development involves the design and construction of a monitoring box that will be installed on each machine. This box will be connected through the internet to a password protected web-site. Web based software will be designed to provide real time data and graphs on equipment performance.

Status: The DETC has been constructed, test procedures have been developed and microturbine testing has been completed for one utility. The remote monitoring system and its web interface have been constructed (alpha version), lab tested, and installed at a utility site. Work currently underway includes expanding the facility to provide for gird interconnection, enhanced power quality monitoring system beta version; development of a "DG Equipment Intelligence Report", as directed by the DEAG, and; additional microturbine testing.

APPENDIX A

. •

-

INTELLECTUAL PROPERTY

Invention Disclosures Patents Licenses

SMP INVENTION DISCLOSURES

GAS OPERATIONS

95-1362 • Pressure Invariant Gas Safety Shutoff Valve	;
---	---

- Acoustic Locator
- An Ultra-Low Power Method of Transmitting Information
- Customer Account Display Enhanced Thermostat
- 99-1432 Enhanced Acoustic Detection of Gas Leaks in Underground Pipes
- Electronic Marker for Buried Valve Boxes
- Electronic Marker for Metallic Valve Covers
- NFM Process for Removal of Impurities From Gas Streams

ENVIRONMENTAL SCIENCE & TECHNOLOGY

96-1380 00-1451 00-1467	•	Use of Sodium Citrate as Chelator for Enhancement in Fenton's Reaction Thermochemical Solidification of Dense Nonaqueous Phase Liquids at Contaminated Sites The Use of Vapor Pressure Characterization to Identify Sources of Rapidly Released Contaminants at Contaminated Sites
00-1468	•	Volatile Compounds for Partitioning and Contaminant Release Rate Determination
ENERGY UT	ILIZ	LATION
95-1369	٠	Staged Combustion Utilizing Forced Internal Recirculation
97-1393	•	High-Efficiency, Low-Pollutant Emission Cyclonic Firetube Boiler
99-1427	٠	Advanced METHANE de-NOX [®] for Stoker Boilers
99-1431	٠	Advanced Forced Internal Recirculation Burner
99-1434	٠	Self-Recuperated, Low-NO _x Flat Radiant Panel
00-1466	•	Method and Apparatus for Advanced Two-Staged Combustion Utilizing Forced Internal Recirculation
ENERGY SYSTEMS		
94-1350	٠	A Simplified Air-Cooled Lithium Bromide Absorption Air Conditioner Utilizing Sprays
96-1385A	•	Cooking Procedure to Eliminate Discoloration (Pink Color) From Cooked Meat
00-1440	•	Novel High Efficiency Deep Fryer
00-1441	٠	High-Efficiency Ultra Low-Emission Boiler/Heater

- Bakery Oven Steam Generator
- Method for Locally Deploying Pipeline Protection Compounds on demand

* New Addition in 2002

SMP PATENTS

GAS OPERATIONS

80-928 • Sonic Detection of Gas Leaks in Underground Pipes
-- U.S. Patent No. 4,455,863 (June 26, 1984).
Inventors: James E. Huebler and Jeffrey M. Craig.

Abstract: An apparatus and process for locating gas leaks in underground pipelines by detection of sound waves created by the leaking gas. The Apparatus and process uses a sound transducer attached to an elongated probe inserted in the ground for a substantial portion of its length. The passive sonic detection apparatus and process of this invention provides improved sensitivity for detection of sounds created by leaking gas and thereby more accurate pinpointing of the gas leak in an underground pipeline.

• Interchangeable Automated Porting Valve and Assembly 87-1096C

--U.S. Patent No. 4,987,924 (January 29, 1991) and U.S. Patent No. 5,232,018 (August 3, 1993). Inventors: William F. Rush, Dennis L. Sadowski and Hyman A. Todres.

Abstract: Covers a remotely-operated plug valve capable of being repaired or modified in place. The use of several plug valves results in a parallel porting valve assembly.

88-1161 • Method and Apparatus for Injecting Acoustic Signals Into Live Gas Mains -- U.S. Patent No. 5,027,644 (July 2, 1991).

Inventors: Christopher J. Ziolkowski and James E. Huebler.

Abstract: A modified pressure regulator concept is used to inject acoustic signals into pressurized gas mains. Such signals can be used to locate piping or help in mapping distribution systems.

89-1175 • Process and Apparatus for Insertion of Robots in Gas Distribution Systems
 -- U.S. Patent No. 5,660,202 (August 26, 1997).
 Inventors: William F. Rush, Jr., Bruce K. Campbell, Kenneth C. Hardy and Lynn A. Sweetwood.

Abstract: A hot tap apparatus for insertion of a controllable device into an in-service pipeline. The insertion end of the housing is sealable. The apparatus includes cutting apparatus for cutting an opening in the pipe sized to receive the controllable device

disposed in the housing.

SMP PATENTS (Cont.)

• Method for Application of Protective Polymer Coating

-- U.S. Patent No. 6,146,709 (November 14, 2000); Applications field in Mexico and Canada Inventors: Joseph M. Katz, William F. Rush, Jr., Victor Tamosaitis

Abstract: A process for application of a protective coating to a steel, concrete, or wooden structure so as to provide protection against corrosion, weathering, or other environmental damage in which the surface to be protected is heated to a temperature in a range of about 75°F. to about 150°F. after which a liquid thermoset primer is applied to the heated material in two stages. The first portion is solidified by heating and then coated with a second portion, forming an uncured liquid thermoset outer primer layer. A melted polymer powder layer is then applied by flamespraying over the uncured liquid thermoset primer layer, forming an intermediate polymer powder layer embedded in the uncured liquid thermoset primer layer. The intermediate melted polymer powder layer is then heated to a flow temperature of the polymer powder and a second layer of melted polymer powder is applied over the intermediate polymer powder layer which then cools to form the final protective coating.

97-1390 • Remote Cathodic Protection Monitoring System

-- U.S. Patent No. 5,999,107 (December 7, 1999); Applications filed in PCT Countries (India, Japan, and European France Patent Office). Inventors: Joel Cooper, Albert W. Gershman, Joe W. McCarty, Arthur Shapiro and Christopher J. Ziolkowski

Abstract: A cathodic protection monitoring system for metal objects comprising a transponder, a sacrificial anode and a reference electrods buried underground in close proximity to the buried metal object to be protected. The system further comprises a portable transceiver disposed above ground tuned to a frequency of the transponder. Power for the operation of the transponder is drawn from the cathodic protection circuit, thereby obviating the need for connections to above ground power supplies.

ENVIRONEMENTAL SCIENCE & TECHNOLOGY

91-1272 • Cyclonic Thermal Treatment and Stabilization of Industrial Wastes -- U.S. Patent No. 5,307,748 (May 3, 1994) and Canada Patent No. 2,109,995 (June 16, 1998).

Inventors: Mark J. Khinkis and Hamid A. Abbasi.

Abstract: A process and apparatus for thermal treatment and stabilization of waste materials in which waste material is introduced into an uppermost first combustion-zone of a vertically oriented combustion chamber and a fuel and an oxidant are tangentially injected into the first combustion zone, oxidizing at least a portion of any organic material in the waste materials and melting at least a portion of any inorganic material in the waste materials. A second portion of fuel and oxidant is injected into a second combustion zone immediately below and in communication with the first combustion zone, melting any remaining inorganic material in the waste material.

SMP PATENTS (Cont.)

90-1229 • Integrated Chemical/Biological Treatment of Organic Waste 90-1252B

-- U.S. Patent No. 5,610,065 (March 11, 1997); Applications filed in Canada and Mexico. Inventors: Robert L. Kelley, Andy H. Hill, Vipul J. Srivastava, W. Kennedy Gauger and John J. Kilbane.

> Abstract: A process for improved remediation of polynuclear aromatic hydrocarbon and/or polychlorinated hydrocarbon contaminated materials by integrated chemical/biological treatment comprising contacting the organic waste with hydrogen peroxide in the presence of ferrous ion oxidizing the organic waste and producing more readily biodegradable hydrocarbon product materials, and then biodigesting the product materials by aerobic and/or anaerobic biodigestion.

• Adsorption of PCBs Using Biosorbents

-- U.S. Patent No. 5,750,065 (May 12, 1998). Inventor: John J. Kilbane, II.

> Abstract: A method for producing biosorbents for adsorption of PCB's in which at least one proteinaceous material is contacted with a molar excess of at least one PCB congener mixture, forming a protein/PCB congener mixture. The protein/PCB congener mixture is dried after which the PCB congeners are extracted from the dried protein/PCB congener mixture forming a biosorbent in the form of an imprinted protein.

95-1363 • Sequential Biological/Chemical/Biological Treatment of Organic Wastes -- U.S. Patent No. 5,955,350 (September 21, 1999); Applications filed in the EPC, Canada, India, Japan and Mexico.

Inventors: Bhupendra K. Soni, Kevin Kayser, Robert L. Kelley and Vipul J. Srivastava.

Abstract: A process for remediation of contaminated solid materials comprising polynuclear aromatic hydrocarbon contaminated solid materials, polychlorinated hydrocarbon contaminated materials, and mixtures thereof by sequential biological/chemical/biological treatment.

ENERGY UTILIZATION

Process and Apparatus for High-Temperature Combustion (Abandoned)
 U.S. Patent No. 4,828,481 (May 9, 1989).

Inventors: Sanford A. Weil, Tian-yu Xiong and Donald K. Fleming.

Abstract: Covers a process and apparatus for high-temperature combustion in a combustion chamber with two opposed porous plates, whereby increased combustion temperatures are achievable through internal radiant energy recuperation. The high-temperature combustion apparatus and process can achieve superadiabatic combustion temperatures that are especially suitable for applications such as waste disposal and incineration.
• Fuel Combustion

-- U.S. Patent No. 4,846,665 (July 11, 1989). Inventors: Hamid A. Abbasi.

Abstract: Process and apparatus for fuel combustion providing oscillation of fuel or combustion air provided to a burner to generate successive fuel-rich and fuel-lean zones in a flame thereby reducing NO_x emissions.

• Vertical Shaft Melting Furnace and Method of Melting

-- U.S. Patent No. 4,877,449 (October 31, 1989). Inventor: Mark J. Khinkis.

Abstract: A vertical shaft, melting furnace wherein meltable solids are charged to the upper region of a bed supported only by a fluid cooled support grid having openings smaller than the average diameter of the charged solids. Submerged combustion is maintained in a melt pool below the bed of solids and combustion product gases are passed upwardly through the bed of solids preheating and melting a substantial portion of the solids.

• Ultra-Low Pollutant Emission Combustion Process and Apparatus 87-1091A

-- U.S. Patent Nos. 5,013,236 (May 7, 1991) and 5,158,445 (October 27, 1992); for the latter see also EPC (Belgium, France, Italy, Netherlands, and United Kingdom) Patent No. 463,277 (September 21, 1994); German Patent No. 69,012,805 (March 16, 1995); and Japan Patent No. 2,619,973 (March 11, 1997).

Inventor: Mark J. Khinkis.

Abstract: An apparatus and method for ultra-low pollutant emission combustion of fossil fuel wherein an elongated cyclonic primary combustion chamber introduces the first fuel portion of about 1 percent to about 20 percent of the total fuel and primary combustion air. A second fuel portion is introduced into the secondary combustion chamber with secondary combustion air. In preferred embodiments, cyclonic flow is maintained through the combustor. This device is ideal for direct air heating applications.

• Process and Apparatus for Emissions Reduction From Waste Incineration

-- U.S. Patent No. 5,020,456 (June 4, 1991); Canadian Patent No. 2,036,944 (September 19, 1995); EPC (Denmark, France, Germany, Netherlands, Sweden, and United Kingdom) Patent No. 445,070 (July 14, 1993); and Japan Patent No. 2,026,049 (February 26, 1996).

Inventors: Mark J. Khinkis, Hamid A. Abbasi, Robert A. Lisauskas and Daniel C. Itse. 87-1125B

--U.S. Patent No. 5,205,227 (April 27, 1993).

Inventors: Mark J. Khinkis and Hamid A. Abbasi.

87-1125BD

-- U.S. Patent No. 5,307,746 (May 3, 1994).

Inventors: Mark J. Khinkis and Hamid A. Abbasi.

Abstract: A process and apparatus for combustion of waste such as municipal solid waste, refuse derived fuel or other comparable solid waste. Natural gas injection into the combustor chamber and flue gas recirculation (for mixing) are used to simultaneously reduce nitrogen oxides, carbon monoxide, chlorinated hydrocarbon and other emissions. The process has been termed METHANE de-NOX.SM

87-1125A • Process and Apparatus for Reducing Pollutant Emissions in Flue Gases -- U.S. Patent No. 5,105,747 (May 26, 1992) and Japan Patent No. 2,643,720 (May 2, 1997). Inventors: Mark J. Khinkis, Jitendra G. Patel, and Amirali G. Rehmat.

Abstract: A combustion process and apparatus for simultaneously reducing nitrogen oxides, sulfur oxides and hydrogen chloride in a high temperature furnace. A combustible material is introduced and combusted within the furnace, forming a primary combustion zone. Combustion air, sorbent and a first portion of hydrocarbon fuel are mixed and combusted within a calciner to form a product gas/calcined sorbent mixture. The product gas/calcined sorbent mixture and a remaining portion of fuel are injected into the furnace, forming an oxygen deficient secondary combustion downstream of the primary combustion zone. Overfire air is injected into the furnace, forming an oxidizing tertiary combustion zone downstream of the oxygen deficient secondary combustion zone. The process has been termed METHANE de-TOX.

86-1088 • Temperature Measuring Pyrometer Probe That Compensates for Radiation Heat Transfer and Pneumatic Losses (Abandoned)

-- U.S. Patent No. 5,116,137 (May 26, 1992). Inventors: Tian-yu Xiong and Lloyd McHie.

Abstract: An apparatus and process for a temperature measuring pyrometer probe that measures gas temperatures above the melting point of conventional thermocouple material. The apparatus is used to calculate radiation heat losses and compensate for pneumatic cooling from the thermocouple junction of the pyrometer probe. A thermocouple junction is mounted within a throat section of a nozzle. The pyrometer probe is intermittently cooled with gas by pulsing reverse cooling gas flow through the pyrometer probe. A computing system calculates radiation heat transfer losses, pneumatic cooling of the pyrometer probe, and instantaneous gas temperatures.

• Method for Two-Stage Combustion Utilizing Forced Internal Recirculation -- U.S. Patent No. 5,350,293 (September 27, 1994).

Inventors: Mark J. Khinkis, H. Abbasi, and David F. Cygan.

Abstract: A method and apparatus for two-stage combustion in which a mixture of fuel and primary combustion air is burned in a primary combustion zone, the primary combustion air comprising less than a stoichiometric requirement for complete combustion of the fuel, and where a portion of cooled partial combustion products formed in the primary combustion zone is recirculated. Additional combustion air is introduced into a secondary combustion zone.

88-1166 • Process and Apparatus for Cyclonic Combustion 88-1169A

-- U.S. Patent No. 5,462,430 (October 31, 1995) and Japan Patent No. 2,662,175 (June 13, 1997). Inventor: Mark J. Khinkis.

> Abstract: A process and apparatus for cyclonic combustion with ultra-low pollutant emissions and high efficiency wherein a fuel and primary combustion air mixture is tangentially injected into a reducing primary combustion zone of a cyclonic combustor. Secondary combustion air is tangentially injected into an oxidizing secondary combustion zone of the cyclonic combustor. Primary combustion products from the reducing primary combustion zone are mixed with the tangentially injected secondary air for completing combustion within the oxidizing secondary combustion zone. The walls of both zones are cooled, making this device ideal for watertube boilers.

• Low Pollutant-Emission, High-Efficiency Cyclonic Burner for Firetube Boilers and Heaters

87-1127

87-1131

87-1132

-- U.S. Patent No. 5,209,187 (May 11, 1993).

Inventors: Mark J. Khinkis.

Abstract: A low pollutant emission, high efficiency cyclonic burner and cyclonic combustion process for firetube boilers and heaters in which the combustion air required for complete combustion is introduced into the cyclonic burner in stages.

91-1254 • Oxygen-Enriched Combustion Method

-- U.S. Patent No. 5,203,859 (April 20, 1993); Canada Patent No. 2,094,690 (June 16, 1998); and EPC (France, Germany, Italy, and United Kingdom) Patent No. 567131B1 (December 11, 1997); Application filed in Mexico.

Inventors: Mark J. Khinkis and Hamid A. Abbasi.

Abstract: A process and apparatus for oxygen-enriched combustion of a fuel in an industrial furnace in which a preheated primary oxidant from a heat exchanger and a fuel to be combusted are introduced into a combustion chamber and ignited. A secondary oxidant having an oxygen concentration in excess of the concentration of oxygen in air is introduced into the combustion chamber downstream of the flame, submerged combustion, and the resulting combustion products are exhausted. This process has been termed OEAS.

87-1126 • Cyclonic Combustion

87-1127

87-1131

87-1132A

-- U.S. Patent No. 5,220,888 (June 22, 1993); and Japan Patent No. 2,955,432 (July 16, 1999); Canada Patent No. 2075150 (September 21, 1999)..

Inventors: Mark J. Khinkis and Hamid A. Abbasi.

Abstract: A process for cyclonic combustion whereby fuel and oxidant are mixed prior to injection into the combustion chamber. This device is ideal for firetube boilers.

92-1293 • Gas-Fired, Porous-Matrix, Surface Combustor-Fluid Heater U.S. Patent No. 5,375,563 (December 27, 1994); Canada Patent No. 2,127,742 (May 20, 1997) Abandoned 5.30.01; Japan Patent No. 2,688,325 (August 22, 1997) Abandoned 5.30.01; and Korea:

Patent No. 240836 (October, 29, 1999)

Inventors: Mark J. Khinkis and Tian-yu Xiong.

Abstract: A porous matrix, surface combustor-fluid heating apparatus that includes a combustion chamber with a cooled flow distributor supporting a stationary porous bed within the combustion chamber, porous bed heat exchanger means embedded in the stationary porous bed and a means for introducing a fuel/oxidant mixture into the bed. Said fuel/oxidant mixture burning in the stationary porous bed.

94-1337 • Staged Combustion in a Porous-Matrix Surface Combustor to Promote Ultra-Low NO_x Emissions

94-1293B

-- U.S. Patent No. 5,476,375 (December 19, 1995); Mexico Patent No. 188,857 (May 7, 1998); and France Patent No. 9,512,285 (October 9, 1998); Canada Patent No. 2159870 (February 13, 2001) Inventors: Mark J. Khinkis, Hamid A. Abbasi, and Thomas D. Briselden.

Abstract: A porous matrix, surface combustor-fluid heating apparatus in which combustion of a fuel/oxidant mixture is carried out in stages within a stationary porous bed disposed in a combustion chamber. A fuel-rich fuel/oxidant mixture is burned within a region of the stationary porous bed disposed near the inlet end of the combustion chamber, forming a primary combustion zone. A secondary oxidant is introduced into the stationary porous bed downstream of the primary combustion zone forming a secondary combustion zone. Finally, heat resulting from the combustion is removed by fluid flowing through heat exchanger tubes embedded within the stationary porous bed.

92-1293A • Gas-Fired, Porous-Matrix, Combustor-Steam Generator

-- U.S. Patent No. 5,544,624 (August 13, 1996). Inventor: Tian-yu Xiong.

Abstract: A porous matrix, surface combustor-fluid heating apparatus, as practiced in U.S. Patent No. 5,476,375, that uses at least one vertically oriented, fluid-cooled tube within the porous bed.

93-1320A • High-Heat Transfer, Low-NO_x, Oxygen-Fuel Combustion System U. S. Patent No. 5,725,366 (March 10, 1998); and Pakistan Patent No. 135792 (May 12, 1999); Applications filed in Canada, the EPC, India, Japan, and Mexico. Inventors: Mark J. Khinkis, Hamid A. Abbasi and Roman E. Grosman.

Abstract: A process and apparatus for combustion of a fuel/oxidant mixture in which at least a portion of the fuel is preheated and, thereafter, burned with any remaining portion of fuel in a flame having fuel-rich zones, thereby forming soot within the resulting flame to produce a luminous, high heat transfer, low NO_x flame.

..

93-1319 • Process and Apparatus for Homogeneous Mixing of Gaseous Fluids

-- U.S. Patent No. 5,881,756 (March 16, 1999); Pakistan (Patent No. 135798 [June 7, 1997]) and application filed in India.

Inventors: Hamid A. Abbasi, Mark J. Khinkis and David F. Cygan.

Abstract: A process and apparatus for premixing a gaseous fuel and air.

97-1397 • Process and Apparatus for Emissions Reduction Using Partial Oxidation of Combustible Material*

-- U.S. Patent No. 5,934,892 (August 10, 1999); Applications filed in the PCT Countries of EPC, Canada, India and Japan.

Inventors: Iosif K. Rabovitser, Mark J. Khinkis and Michael J. Roberts.

Abstract: A process for combustion of a combustible material in which a primary combustible material is introduced into a combustion chamber having an upstream primary combustion zone and a downstream zone. A secondary combustible material is partially combusted in a combustor forming partial combustion products which are then injected into the combustion chamber downstream of the primary combustion zone.

96-1386 • Reburn Process

-- U.S. Patent No. 5,937,772 (August 17, 1999); Applications filed in Canada, India, the PCT, Mexico, South Africa and Taiwan.

Inventors: Mark J. Khinkis, Iosif K. Rabovitser and Michael J. Roberts

Abstract: A process and apparatus for combustion in which a combustible material is introduced into a combustion chamber and oxidant is supplied to this primary combustion chamber. A mixture of flue gases and flyash having an organic content is injected into the combustion chamber downstream of the primary combustion zone to create an oxygen-deficient reburn zone.

• Mixed Basic Metal Oxide Catalyst for Oxidative Coupling of Methane (Abandoned)

-- U.S. Patent No. 4,826,796 (May 2, 1989) and U.S. Patent No. 4,935,572 (June 19, 1990). Inventors: Erek J. Erekson and Anthony L. Lee.

Abstract: Covers a catalyst and a process for oxidative coupling of methane, the catalyst being a mixed basic metal oxide. One preferred catalyst is a boron/alkali metal-promoted metal oxide. One possible application is in the conversion of natural gas to ethylene and other olefins.

87-1123 • Mixed Basic Metal Sulfide Catalyst (Abandoned)
-- U.S. Patent No. 4,945,078 (July 31, 1990).
Inventors: Erek J. Erekson, Anthony L. Lee, S. Peter Barone, Irvine J. Solomon.

Abstract: The catalyst is useful for oxidative coupling of methane and aliphatic and alicyclic hydrocarbon compounds with an aromatic compound to produce higher molecular weight hydrocarbons and for dehydrogenating hydrocarbon compounds to produce unsaturated aliphatic and alicyclic chains.

• Oxidative Coupling of Aliphatic and Alicyclic Hydrocarbons with Aliphatic and Alicyclic

88-1158 Substituted Aromatic Hydrocarbons (Abandoned)

-- U. S. Patent No. 4,950,827 (August 21, 1990).

Inventors: Erek J. Erekson and Anthony L. Lee.

Abstract: The catalyst is a mixed basic metal oxide catalyst. Reaction of methane with toluene and oxygen results in conversion to styrene.

• Mixed Basic Metal Oxide/Sulfide Catalyst (Abandoned)

-- U.S. Patent No. 4,956,327 (September 11, 1990).

Inventors: Erek J. Erekson, Anthony L. Lee, S. Peter Barone, Irvine J. Solomon.

Abstract: Covers a mixed basic metal oxide/sulfide catalyst with tolerance for sulfur containing feedstocks. The catalyst is useful for oxidative coupling of methane and aliphatic and alicyclic hydrocarbon compounds with an aromatic compound to produce higher molecular weight hydrocarbons and for dehydrogenating hydrocarbon compounds to produce unsaturated aliphatic and alicyclic chains.

• Oxidative Coupling of Aliphatic and Alicyclic Compounds and Mixed Basic Oxide Catalyst (Abandoned)

-- U.S. Patent No. 5,043,505 (August 27, 1991).

Inventors: Erek J. Erekson, Anthony L. Lee, S. Peter Barone, Irvine J. Solomon.

Abstract: A process for gas phase oxidative coupling of aliphatic and alicyclic hydrocarbon compounds to higher molecular weight hydrocarbon compounds using a mixed basic metal oxide or sulfide catalyst.

• Liquid Catalyst for Oxidative Coupling Reactions (Abandoned)

-- U.S. Patent No. 5,097,086 (March 17, 1992).

Inventors: Anthony L. Lee, Robert Zabransky, Erek J. Erekson, S. Peter Barone, Irvine J. Solomon.

Abstract: Covers a liquid catalyst composition for the oxidative coupling of methane and other hydrocarbon compounds to produce higher hydrocarbons and for the oxidative dehydrogenation of aliphatic and alicyclic hydrocarbon compounds, aliphatic and alicyclic substituted aromatic hydrocarbons, and mixtures thereof.

• Anionically Stabilized Lithium Catalysts and a Method for Stabilizing the Lithium Catalysts (Abandoned)

-- U.S. Patent No. 5,204,308 (April 20, 1993).

Inventors: Anthony L. Lee, Erek J. Erekson, James T. Semrau, S. Peter Barone, Irvine J. Solomon.

Abstract: An anionically stabilized lithium catalyst wherein the anion is sulfate, phosphate, aluminate, silicate, and mixtures thereof. The catalyst may be used to promote reactions such as oxidative coupling of aliphatic and alicyclic hydrocarbons to produce higher molecular weight compounds and oxydehydrogenation of aliphatic and alicyclic hydrocarbons to produce unsaturated hydrocarbons or to change the functional group of the hydrocarbon.



• Method and Apparatus for Controlled Mixing of Fluids-- U.S. Patent No. 6,203,187 (March 20, 2001).

Inventors: Hamid Abbassi, Iosif Rabovitser, John Wagner

Abstract: A method for mixing fluids in which a continuously variable flow rate stream of an injection fluid is introduced into a substantially constant flow rate stream of a primary fluid in a direction substantially transverse with respect to the direction of flow of the substantially constant flow rate stream of the primary fluid.

ENERGY SYSTEMS

• Isothermal Thermo-cyclic Processing

-- U.S. Patent No. 4,971,605 (November 20, 1990) and Japan Patent No. 2,008,828 (January 11, 1996), abandoned.

Inventor: Paul B. Tarman.

Abstract: Applies to all types of cyclic exothermic/endothermic (heat release/heat absorption) processes. The normal temperature swing of such processes is eliminated by use of a phase-change material that absorbs heat during the exothermic portion of the cycle and releases heat during the endothermic portion. Elimination of temperature swing improves cyclic process performance.

90-1233 • Counterflow Air-to-Refrigerant Heat Exchange System (Abandoned)

-- U.S. Patent No. 5,165,254 (November 24, 1992).

Inventors: Kenneth J. Kountz and Marek Czachorski.

Abstract: A heat exchange system for a heat pump in which the cooled fluid and the cooling fluid are maintained in counterflow in both the heating and cooling modes of operation.

• Refrigerant Composition Control System for Use in Heat Pumps Using Nonazeotropic Refrigerant Mixtures (Abandoned)

-- U.S. Patent No. 5,186,012 (February 16, 1993).

Inventors: Marek Czachorski and Kenneth J. Kountz.

Abstract: A heat pump system, that uses non-azeotropic refrigerant mixtures, comprising a main refrigeration circuit, an engine coolant circuit, and a refrigerant rectifier circuit interfacing with a main refrigeration circuit, and the engine coolant circuit. The refrigerant rectifier circuit is used to adjust the relative concentrations of lower boiler point refrigerant, and higher boiling point refrigerant in the non-azeotropic refrigerant mixture thereby changing the cooling or heating capacity of the heat pump system.

SMP LICENSES & AGREEMENTS

GAS OPERATIONS

- On October 28, 1998, Gas Authority of India, Ltd. was granted a license for the exclusive, timelimited use of our Smart Cathodic Protection Monitor Technology in India, Philippines, Thailand, Indonesia, Singapore, Malaysia, Brunei Darussalem and Vietnam. This technology provides the capability to monitor and communicate the status of pipeline corrosion protection in a cost-effective and timely manner. The agreement covers the technology described in U.S. Patent No. 5,999,107 (December 7, 1999), "Remote Cathodic Protection Monitoring Systems," and related know-how.
- On December 27, 1996, Krupp Uhde GmbH was granted a worldwide license for the exclusive, time-limited use of our NFM (Morphysorb[®]) Process for acid-gas removal from natural gas and synthesis gas. Morphysorb is estimated to save 20% in construction costs and up to 60% in operating costs when compared to the best commercial alternative process. This agreement covers the technology described in the invention disclosure, IGT Case No. 96-1388 and related know-how.
- On January 22, 1999, Commercial Resins Inc. was granted a license for the exclusive, timelimited use of our Field Applied Coating Technology in the U.S.A. However, Sustaining Members of GTI retain the right to obtain a royalty-free license for their own use. This technology uses epoxy coatings and a flame-spray overlay to achieve protection of piping equal to fusionbonded epoxy coatings. The agreement covers the technology in the invention disclosure, IGT Case No. 96-1384 and related know-how.
- On March 15, 2000, Gas Authority of India, Ltd. was granted a license for the exclusive, timelimited use of our Field Applied Coating Technology in India, Philippines, Thailand, Indonesia, Singapore, Malaysia, Brunei Darussalem, and Vietnam. This technology uses epoxy coatings and a flame-spray overlay to achieve protection of piping equal to fusion-bonded epoxy coatings. The agreement covers the technology in the invention disclosure, IGT Case No. 96-1384 and related know-how.*

ENERGY UTILIZATION

- On November 25, 1992, TAKUMA CO., LTD. signed a Technology Development Agreement and Optional Agreement to license the Cyclonic Burner Technology for firetube boilers in Japan. In the cyclonic boiler burner, fuel and oxidant are pre-mixed prior to injection into the combustion chamber. The highly efficient, compact burner significantly reduces NO_x, CO, and total hydrocarbon emissions and is ideal for firetube boilers. The agreement covers the technology described in U.S. Patent No. 5,220,888 (June 22, 1993), "Cyclonic Combustion," and related knowhow.
- On November 1, 1993, American Air Liquide, Inc. and L'Air Liquide, S.A. were jointly granted a worldwide co-license for the exclusive, time-limited use of the Oscillating-Combustion Technology for all applications. On December 18, 1997, the license agreement was amended to grant back to IGT/SMP the world-wide non-exclusive rights for air-fuel applications. This technology employs oscillating fuel and/or oxidant to reduce nitrogen oxide emissions from natural gas-fired industrial burners. The agreement covers the technology described in U.S. Patent No. 4,846,665 (July 11, 1989), "Fuel Combustion," and related know-how.

SMP LICENSES & AGREEMENTS (Con't)

- On June 13, 1994, TAKUMA CO., LTD. was granted a license for the exclusive, time-limited use of our METHANE de-NOX[®] reburn technology for municipal solid waste (MSW) applications in Japan. This process uses natural gas injection (reburn) to reduce nitrogen oxide emissions without increasing other undesirable emissions. The agreement covers the technology described in U.S. Patent No. 5,020,456 (June 4, 1991), and Japan Patent No. 2,026,049 (February 26, 1996); U.S. Patent No. 5,105,747 (May 26, 1992), and Japan Patent No. 2,643,720 (May 2, 1997); U.S. Patent No. 5,205,227 (April 27, 1993); and U.S. Patent No. 5,307,746 (May 3, 1994); "Process and Apparatus for Emissions Reduction From Waste Incineration," and related know-how.
- On July 9, 1997, Detroit Stoker Company was granted a license for the exclusive, time-limited use of the METHANE de-NOX reburn technology for coal, biomass and MSW applications in the U.S.A., Canada, and Mexico. The agreement covers the technology described in U.S. Patent No. 5,020,456 (June 4, 1991), and Canada Patent No. 2,036,944 (September 19, 1995); U.S. Patent No. 5,205,227 (April 27, 1993); and U.S. Patent No. 5,307,746 (May 3, 1994); "Process and Apparatus for Emissions Reduction From Waste Incineration," and related know-how.
- On December 1, 1994, Eclipse Combustion, Inc. and Air Products and Chemicals, Inc. were jointly granted a worldwide co-license for the exclusive, time-limited use of our Oxygen-Enriched Air Staging (OEAS) Combustion Method for industrial furnaces. This technology reduces nitrogen oxide emissions from certain natural gas-fired, high-temperature industrial furnaces such as glass melters. The agreement covers the technology described in U.S. Patent No. 5,203,859 (April 20, 1993); Canada Patent No. 2,094,690 and EPC (France, Germany, Italy, and United Kingdom) Patent No. 567131B1 (December 11, 1997); "Oxygen-Enriched Combustion Method," and related know-how.

ENERGY SYSTEMS

• On February 26, 1999, Alkar Division, DEC International Inc. was granted a non-exclusive, license for a Cooking Process in the U.S.A. This technology prevents the discoloration of products during the cooking process. The agreement covers the technology described in the invention disclosure, IGT Case No. 96-1385 and related know-how.

APPENDIX B

Commercial Products/Processes Commercial Services Commercial Software

SMP COMMERCIAL PRODUCTS/PROCESSES

CYCLOMAX[®] Low-NO_x Gas Burners: Line of burners for low-temperature air heating. Over 1000 burners sold. See products listing for Nozzle Mixing Burners on www.maxoncorp.com.

Global Contact: Mr. Mark R. Phillips General Sales Manager Maxon Corporation Ph: 765-284-3304 e-mail: <u>mphillips@maxoncorp.com</u>

Compact Vacotin Water Heater: A line of water heaters using low-NO_x cyclonic burners (GFL-1000, 1250).

Japan Contact: Mr. Toshirou Nomura Managing Director & TAKUMA CO., LTD.

Managing Director & Engineer-In-Chief TAKUMA CO., LTD. Ph: 81-6-6483-2710 e-mail: <u>nomura@takuma.co.jp</u>

METHANE de-NOX[®] Reburn Process: Combustion modifications for stoker boilers firing coal, municipal solids waste (MSW), or biomass (wood), designed to reduce NO_x emissions by 50%-75%. Eight coal boilers converted at the Cogentrix plant in Richmond, VA., and one wood waste boiler at Boise Cascade Paper Mill in International Falls, MN, have been converted. Demonstrations on wood and MSW in progress.

North American

Contact:	Mr. Robert Schrecengost			
	ESA Environmental Solutions			
	564 Washington Avenue			
	Pittsburgh, PA 15106			
	Ph: 412-429-2713			
	Web Address: www.energysystemassoc.com			
Japan Contact:	Mr. Toshirou Nomura			
	Managing Director & Engineer-In-Chief			
	TAKUMA CO., LTD.			
	Ph: 81-6-6483-2710			
	e-mail: <u>nomura@takuma.co.jp</u>			

MORPHYSORB[®] Process for Upgrading Subquality Gas: Retrofit or new installation designed to remove high concentrations of CO₂ and H₂S from natural gas. In operation on landfill gas.

Global Contact:	Mr. H. Maxwell Hooper	
	Senior Manager, Business Development	
	Krupp Uhde Corp. of America	
	Phone: 713-407-7537	
	e-mail: <u>max_hooper@parsons.com</u>	





SMP COMMERCIAL PRODUCTS/PROCESSES (Cont.)

OEAS Process for Glass Melters: Combustion modification for end-port and side-port glass melters designed to reduce NO_x emissions by 50%-75%. Ten furnaces have been converted in North America.

Global Contact: Mr. Daniel Wishnick Vice President, Glass Technology Eclipse Combustion, Inc. Ph: 407-299-7317 e-mail: dwishnick@combustiontec.com

OSCILLATING COMBUSTION Process: Combustion train modification for high-temperature furnaces designed to reduce NO_x emissions by about 50% and increase heat transfer to furnace products. Demonstrations at steel and glass plants are in progress.

Global Contact for OXY-GAS:

Mr. John Barney Business Development Manager American Air Liquide Ph: 708-579-7723 e-mail: John.Barney@airliquide.com

Global Contact for AIR-GAS:

Dr. Suresh Babu Director, Technology Planning Gas Technology Institute Ph: 847-768-0509 e-mail: suresh.babu@gastechnology.org

SMP COMMERCIAL SERVICES

FLAMESPRAY Coatings: Two-step pipeline coating process using an epoxy base overcoated with plastic flamespray for repair and protection of field repairs. Provides protection equal to fusion-bonded epoxy coatings. Site license available for SMP member companies.

North American	Mr. Russ Langly
Contact:	Vice President, Technical Services
	Commercial Resins Corporation
	Ph: 918-438-6522
	e-mail: russ@commercialresins.com

India & Surrounding	Dr. Ashutosh Rastogi
Territories:	Deputy General Manager, (Technology)
	Gas Authority of India, Ltd.
	Ph: 91 11 672580, Ext. 6103
	e-mail: rastogi@gail.emet.in

MGP-REM and PCB-REM Processes: Bio-chem remediation of town gas soils and soils contaminated with PCBs. Full scale land-farming demonstration in fourth season at a MidAmerican Energy Co. site. Slurry and in-situ field pilot tests completed.

Contact:

Mr. Vipul Srivastava Director, Biotechnology and Environmental Engineering Gas Technology Institute Ph: 847-768-0539 e-mail: vipul.srivastava@gastechnology.org

Business Affiliates

- GRS Valtech
- Inland Environmental, Inc.
- IT Corporation
- North American Realty Advisory Services
- Tetra Tech, Inc.
- Woodard-Curran, Inc.

Commercial Partners

- Barr Engineering
- URS Corporation
- Environmental Resource Management
- ARCADIS Geraghty & Miller





=:

SMP COMMERCIAL SOFTWARE

CASCADE, NGV Gas Blend & BIDSPEC: Design and operating aids for natural gas vehicle fueling stations.

Contact:

Mr. John Kinast Senior Engineer Systems Development Gas Technology Institute Ph: 847-768-0555 e-mail: john.kinast@gastechnology.org

DESICALC & GAS COOLING GUIDE: Software aids for architects, engineers, and marketing staff that assist in the selection of gas cooling options including desiccant systems. Software supplied by InterEnergy Inc., a joint venture of GRI and GTI-SMP.

Contact:

Mr. Marek Czachorski Senior Mechanical Engineer Gas Technology Institute Ph: 847/768-0526 e-mail: marek.czachorski@gastechnology.org

PALM COMPUTING APPLICATIONS: Software applications that automate and simplify field data acquisition.

Contact:

Mr. John Kinast Senior Engineer Systems Development Gas Technology Institute Ph: 847-768-0555 e-mail: john.kinast@gastechnology.org

UTILITY COMMUNICATIONS PROTOCOLS: Standards protocols using open architecture designs for communication and automation systems in utility operations.

Contact:

Dr. William F. Rush, Jr. Assistant Institute Physicist Gas Technology Institute Ph: 847-768-0554 e-mail: <u>bill.rush@gastechnology.org</u>

APPENDIX C

-

CONCLUDED SMP PROJECTS

LIST OF CONCLUDED SMP PROJECTS

GAS OPERATIONS

Advanced Gas Distribution Systems

Rotating Gas-Liquid Contactor Evaluation

Improved Field-Applied Coatings

ENVIRONMENTAL SCIENCE & TECHNOLOGY

Reducing Hazards in the Refrigerated Storage of Liquids

Basic Studies of a Novel Gas-Fired Incinerator

Two-Stage Waste Combustor

Advanced, Gas-Fired Cyclonic Waste Combustion Systems

Supercritical Extraction

PCB Remediation

ENERGY UTILIZATION

Air Partial Oxidation of Natural Gas in a Fluidized Bed

A Study of the Catalytic Oxidative Coupling of Methane

NO_x and CO Emissions Reduction from MSW Combustors

METHANE de-TOX Process for MSW Combustors

Surface Combustor for Process Heaters

High Temperature Indirect Heating

Microbial Production of Chemicals from Methane

Natural Gas Burner for Direct Air Heaters

Low-NO_x Burner for Firetube Boilers

Advanced Heat Treating Furnage

ENERGY SYSTEMS

Catalysts for Emissions Reduction from Natural Gas Engines

NOTE: An addendum document is available upon request that will summarize these projects.

For information contact:

Vincent B. Fiore Director, Emerging Technologies Gas Technology Institute 1700 S. Mt. Prospect Des Plaines, IL 60018

847/768-0847 (Phone) 847/768-0501 (Fax) vince.fiore@gastechnology.org (E-mail) http://www.gastechnology.org/pub/smp/index.html

Ł

, s:

4/18/02

Care #

99-070 Public Service Comm

WILLIAM WALLACE BRYAN, JR.



CITY OF HOPKINSVILLE KENTUCKY 42241

Ax Today hard copy VIA U.S. MAil RECEIVED

DEC 1 3 1999 PLOLIC SERVICE 00 46 2-

12-10-99

Fublic Service Commission :

I lost my last Mayon's VACE And have been out of Office For Almest A year. Cleanly I don't Officially represent an prophe but having, on occassions past, stood before you to protest enconsciontable Kesibertint VATRE Proposals, I Again Voice concern. It is the Same old game ... Ask For A huge increase Then grin behind closed doors when it is modestly reduced and Approval. I'm Very disappointed that the states Attonney general's Office didn't better see through this - Now they are sleeping with the Enterry. WKG >

has many Finde Employees (esperily The old Timens From Kentucky) and They provide us with A deelad and Valuable Verounce That our good God put in the ground For us. Have brokborne I unge yon ... And Watch Those guys From TEXAS, UNJESS VERY VERY VERY Extracondining conditions are present, I unge you, Our Public Service Commission, To restrict my vate like to The Vange of inFlation. I Appreciate you All and Value your resolve in our behalf. With respect, Case # Wally Bryan 99-070

NKG agi . Os to iswer fate increase

OWENSBORO, Ky. AP) — Following objections from the state attorney general's office, Western Kentuchy Gas has agreed to a sharp cut in the rate increase it requested.

Rates will go up but not nearly as much as the Owensboro-based company asked for in July.

The settlement agreed to by WKG and the attorney general's office was filed Friday with the state Public Service Commission, which has a hearing set for Dec. 14 in Frankfort.

WKG originally filed for an increase that would have raised residential bills 13.5 percent, or about \$4.85 a month.

For all customers, the rate increase would have averaged 11.7 percent and added \$14.12 million in revenue a year for the company, which provides natural gas to more than 170,000 customers in 38 Kentucky counties.

The attorney general's office requested that the total increase be reduced by 30 percent, to which WKG agreed.

NCICE OF HEARING

Notice is hereby given that the Public Service Commission of the Commonwealth of Kentucky has scheduled a public hearing on the application of Western Kentucky Gas Company for a general adjustment to its rates, Case No. 99-070, for 9:00 a.m., Eastern Standard Time, December 14, 1999, in the Commission's offices, Hearing Room 1, 730 Schenkel Lane, Frankfort, Kentucky for the purposes of presentation of evidence and the cross-examination of witnesses.

Ś

y



ROBERT E HOULIHAN ROBERT F. HOULIHAN LESLIE W. MORTIS II LINDSEY W. INGRAM, JR. WILLIAM L. MONTAGUE JOHN STANLEY HOFFMAN** BENNETT CLARK WILLIAM T BISHOP III RICHARD C. STEPHENSON CHARLES E. SHIVEL, JR. ROBERT M. WATT III J. PETER CASSIDY, JR. DAVID H. THOMASON* DAVID H. THOMASON** SAMUEL D. HINKLE IV*** R. DAVID LESTER ROBERT F. HOULIHAN, JR. WILLIAM M. LEAR, JR. GARY W. BARR DONALD P. WAGNER FRANK L. WILFORD HARVIE B. WILKINSON ROBERT W. KELLERMAN LIZBETH ANN TULLY J. DAVID SMITH, JR. EILEEN O'BRIEN DAVID SCHWETSCHENAU ANITA M. BRITTON RENA GARDNER WISEMAN DENISE KIRK ASH BONNIE HOSKINS C. JOSEPH BEAVIN DIANE M. CARLTON P. DOUGLAS BARR PERRY MACK BENTLEY MARY BETH GRIFFITH GREGORY D. PAVEY J. MEL CAMENISCH, JR. LAURA DAY DELCOTTO LEA PAULEY GOFF** CULVER V. HALLIDAY *** DAVID E. FLEENOR

STOLL, KEENON & PARK, LLP

201 EAST MAIN STREET **SUITE 1000** LEXINGTON, KENTUCKY 40507-1380

> (606) 231-3000 FAX: (606) 253-1093

*FRANKFORT OFFICE: 307 WASHINGTON STREET FRANKFORT, KY. 40601-1823 (502) 875-6220 FAX: (502) 875-6235

**WESTERN KENTUCKY OFFICE: 201 C NORTH MAIN STREET HENDERSON, KY. 42420-3103 (270) 831-1900 FAX: (270) 827-4060

WELIC SERVICE

COMMAN BOYON

***LOUISVILLE OFFICE: 2650 AEGON CENTER 400 WEST MARKET LOUISVILLE, KY. 40202-3377 (502) 568-9100 FAX: (502) 568-5700

INTERNET: www.skp.com

December 10, 1999

JAMES D. ALLEN SUSAN BEVERLY JONES MELISSA A. STEWART TODD S. PAGE JOHN B. PARK JOHN B. PARK PALMER G. VANCE II RICHARD A. NUNNELLEY WILLIAM L. MONTAGUE, JR. KYMBERLY T. WELLONS CHARLES R. BAESLER, JR STEVEN B. LOY PATRICIA KIRKWOOD BURGESS PICHADD B. WOOD BURGESS RICHARD B. WARNE JOHN H. HENDERSON** LINDSEY W. INGRAM III JEFFERY T. BARNETT AMY C. LIEBERMANN ELIZABETH FRIEND BIRD** CRYSTAL OSBORNE JOHN A. THOMASON* DELLA M. JUSTICE BOYD T. CLOERN*** DONNIE E. MARTIN DAVID T. ROYSE

(OF COUNSEL) JAMES BROWN*** DOUGLAS P. ROMAINE JAMES G. STEPHENSON GEORGE D. SMITH

WALLACE MUIR (1878 - 1947) WILLIAM RODMAN W. KEENCIN 1... JAMES PARK (1892 - 1970) JOHN L. DAVIS (1913 - 1970) DEC 1 0 19909 GAVIE A. MOHNEY (1908 - 1980) GAVIE A. MOHNEY (1908 - 1986) GAVIE A. MOHNEY (1908 - 1986) GAVIE A. MOHNEY (1908 - 1986) RICHARD C. STOLL (1876 - 1949)

Hon. Helen Helton **Executive Director Public Service Commission** 730 Schenkel Lane P.O. Box 615 Frankfort, KY 40602

> Western Kentucky Gas Company Re: Case No. 99-070

Dear Ms. Helton:

We deliver herewith for filing an original and twelve (12) copies of the fully executed affidavit of Dale R. Lawrence which is the last page of his Settlement Testimony submitted yesterday on behalf of WBI Southern, Inc. in the above-captioned case. We would appreciate your placing the affidavit with his testimony in the case. Thank you for your kind assistance.

Sincerely,

Robert Wan

Robert M. Watt, III

rmw

encl.

Counsel of Record (w/encl.) cc: Keith A. Tiggelaar, Esq. (w/o encl.)

AFFIDAVIT

PECEINED DECJ01999 The affiant, Dale R. Lawrence, being duly sworn, we depose and states that the testimony attached hereto and made a part hereof, constitutes the testimony of this affiant in Case No. 99-070, in the Matter of the Applications of Western Kentucky Gas Company for an Adjustment of Rates, and that if asked the questions propounded therein, this affiant would make the answers set forth in the attached testimony.

Affiant further states that he will be present and available for cross examination and for such additional direct examination as may be appropriate at any hearing in Case No. 99-070 scheduled by the Commission, at which time affiant will further reaffirm the attached testimony as his testimony in such case.

STATE OF North Dakota

COUNTY OF Burleigh

Subscribed and sworn to before me by Dale R. Lawrence on this the 9th day of December, 1999.

))

My commission expires: 3-15-02

Brown

Arllis Brown Notary Public



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

December 10, 1999

To: All parties of record

RE: Case No. 1999-070

.

We enclose one attested copy of the Commission's Order in the above case.

Sincerely,

Stephanie Bell Secretary of the Commission

SB/hv Enclosure William J. Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY 42303 1312

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hutchinson Kinney 115 East Second Street Owensboro, KY 42303

Honorable John N. Hughes Attorney for Western KY Gas 124 West Todd Street Frankfort, KY 40601

Mr. Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265

Honorable David Edward Spenard Assistant Attorney General 1024 Capital Center Drive Frankfort, KY 40601 8204

Hon. Robert M. Watt, Hon. J. Mel Camenisch, Jr. STOLL, KEENON & PARK, LLP 201 E. Main Street, Suite 1000 Lexington, KY 40507 1380

Mr. Keith Tiggelaar Manager-Regulatory Affairs WBI Southern, Inc. P.O. Box 5601 Bixmark, ND 58506 5601

STOLL, KEENON & PARK, LLP

201 EAST MAIN STREET SUITE 1000 LEXINGTON, KENTUCKY 40507-1380

> (606) 231-3000 FAX: (606) 253-1093

*FRANKFORT OFFICE: 307 WASHINGTON STREET FRANKFORT, KY. 40601-1823 (502) 875-6220 FAX: (502) 875-6235 **WESTERN KENTUCKY OFFICE: 201 C NORTH MAIN STREET HENDERSON, KY. 42420-3103 (270) 831-1900 FAX: (270) 827-4060

***LOUISVILLE OFFICE: 2650 AEGON CENTER 400 WEST MARKET LOUISVILLE, KY. 40202-3377 (502) 568-9100 FAX: (502) 568-5700

INTERNET: www.skp.com

December 9, 1999

JAMES CHALLEN SUSAN DEVICIEN SUSAN DEVICIEN SUSAN DEVICIEN MELISSON STENART TODD S. PARA JOHN B. PARK JOHN B. PARK MICHARD A. NUNNELLEY MILLIAM L. MONTAGUE, JR. KYMBERLY T. WELLONS CHARD B. WANCE JOHN H. HENDERSON:* LINDSEY W. INGRAM III JEFFERY E BARNETT AMY C. LIEBERMANN ELIZABETH FRIEND BIRD** CRYSTAL OSBORNE JOHN A. THOMASON** DELLA M. JUSTICE BOYD T. CLOERN*** DONNIE E. MARTIN DAVID T. ROYSE

(OF COUNSEL) WILLIAM L. SULLIVAN*** JAMES BROWN*** DOUGLAS P. ROMAINE JAMES G. STEPHENSON GEORGE D. SMITH

WALLACE MUIR (1878 - 1947) RICHARD C. STOLL (1876 - 1949) WILLIAM H. TOWNSEND (1890 - 1964) RODMAN W. KEENON (1882 - 1966) JAMES PARK (1892 - 1970) JOHN L. DAVIS (1913 - 1970) GLADNEY HARVILLE (1921 - 1978) GAYLE A. MOHNEY (1906 - 1980) C. WILLIAM SWINFORD (1921 - 1986)

Hon. Helen Helton Executive Director Public Service Commission 730 Schenkel Lane P.O. Box 615 Frankfort, KY 40602

> Re: Western Kentucky Gas Company Case No. 99-070

Dear Ms. Helton:

We deliver herewith for filing an original and twelve (12) copies of the Settlement Testimony of Dale R. Lawrence on behalf of WBI Southern, Inc. in the above-captioned case. We would appreciate your placing the testimony with the other papers in the case and bringing it to the attention of the Commissioners. Please note that the affidavit accompanying the testimony contains the conformed signature of Mr. Lawrence. We were unable to obtain Mr. Lawrence's signature in time to meet the filing deadline, but will file it tomorrow when we receive the signature page. Thank you for your kind assistance.

Sincerely,

Paleet War

Robert M. Watt, III

rmw

encl. cc: Counsel of Record (w/encl.) Keith A. Tiggelaar, Esq. (w/ encl.)

ROBERT F. HOULIHAN LESLIE W. MORRIS II LINDSEY W. INGRAM, JR. WILLIAM L. MONTAGUE JOHN STANLEY HOFFMAN** BENNETT CLARK WILLIAM T. BISHOP III RICHARD C. STEPHENSON CHARLES E. SHIVEL, JR. ROBERT M. WATT III J. PETER CASSIDY, JR. DAVID H. THOMASON** SAMUEL D. HINKLE IV*** R. DAVID LESTER ROBERT F. HOULIHAN, JR. WILLIAM M. LEAR, JR. GARY W. BARR DONALD P. WAGNER FRANK L. WILFORD HARVIE B. WILKINSON ROBERT W. KELLERMAN* LIZBETH ANN TULL J. DAVID SMITH, JR. EILEEN O'BRIEN DAVID SCHWETSCHENAU ANITA M. BRITTON RENA GARDNER WISEMAN DENISE KIRK ASH BONNIE HOSKINS C. JOSEPH BEAVIN C. JOSEPH BEAVIN DIANE M. CARLTON LARRY A. SYKES P. DOUGLAS BARR PERRY MACK BENTLEY MARY BETH GRIFFITH DAN M. ROSE GREGORY D. PAVEY J. MEL CAMENISCH, JR LAURA DAY DELCOTTO LEA PAULEY GOFF *** CULVER V. HALLIDAY *** DAVID E. FLEENOR

٩

¢

RECEIVED DEC 0 9 1999

BEFORE THE PUBLIC SERVICE COMMISSION

IN THE MATTER OF THE)		
APPLICATION OF WESTERN)	CASE NO.	99-070
KENTUCKY GAS COMPANY FOR)		
AN ADJUSTMENT OF RATES)		

SETTLEMENT TESTIMONY OF DALE R. LAWRENCE

- 1 Q. Please state your name and business address.
- A. My name is Dale R. Lawrence. My business address is 1250
 West Century, Bismarck, North Dakota 58501.

4 Q. What is your position with WBI Southern, Inc.?

5 A. I am a Supervisor in the Regulatory Affairs Department of 6 WBI Southern, Inc. (WBI Southern or Company).

7 Q. Please describe your educational and professional background.

A. I graduated Cum Laude from Harding University in 1982,
receiving a Bachelor of Science degree in Business
Administration with a major in Accounting. In June 1982, I
was employed by Tenneco Gas in the Accounting Department as an
entry level accountant and held various other positions with
that company in the accounting and regulatory areas until my

14 employment with Williston Basin in December 1991.

Q. Mr. Lawrence, please explain the purpose of this testimony?
A. The purpose of this testimony is to explain why
modifications to the proposed Rate T-5, resulting from the
Joint Stipulation and Settlement (Settlement) between Western
Kentucky Gas Company (Western Kentucky) and WBI Southern are

1

fair, just and reasonable.

Q. Please explain again why WBI Southern intervened and filed
testimony in the instant proceeding?

WBI Southern's intervention in Western Kentucky's 4 Α. application was due to the imposition of Rate T-5 and its 5 6 originally proposed terms, conditions and charges. As Mr. Tiggelaar stated in his earlier testimony, the \$0.10 per Mcf 7 charge for all parties utilizing an alternate receipt point on 8 Western Kentucky's system under Rate T-5 is excessive and 9 would stifle competition by not allowing competitively priced 10 11 supplies of natural gas on Western Kentucky's system. In fact, this charge could virtually eliminate any new gas supply 12 alternatives on Western Kentucky's system, to the detriment of 13 not only any potential new customer but also to Western 14 Kentucky's existing customers. 15

Q. Mr. Lawrence, please explain the modifications to the proposed
 Rate T-5 Tariff resulting from the Settlement between Western
 Kentucky and WBI Southern and why these modifications are
 fair, just and reasonable.

20A.The first modification revises the \$0.10 per Mcf charge to21a fixed \$50.00 per month Administrative Charge. WBI Southern22estimates that it could deliver one Bcf or more per year into23Western Kentucky's pipeline system. If all of these volumes24on Western Kentucky's system were charged a rate of \$0.10 per25Mcf, shippers on Western Kentucky would pay an additional26\$100,000 annually for the use of Kentucky Pipeline and Storage

2

Company, Inc.'s (KYPSCO) East Diamond Storage Field 1 2 interconnection, in addition to the charges necessary to utilize KYPSCO's facilities. This level of activity would 3 clearly allow Western Kentucky to overcollect the 4 administrative costs it estimates to incur in implementing 5 Rate T-5. WBI Southern believes a fixed \$50.00 per month 6 administrative charge to be a more reasonable charge and to 7 better reflect the additional administrative costs Western 8 Kentucky will incur in implementing Rate T-5. The flat 9 10 monthly charge will also encourage marketers and other suppliers of natural gas to maximize throughput, as no 11 12 additional charges will occur when the level of throughput utilizing alternate receipt points increases. 13

Additional modifications to Rate T-5 exclude the \$50.00 14Administrative Charge imposed by Rate T-5 for service provided 15 under Rate T-3, Interruptible Carriage Service, and the \$50.00 16 administrative charge imposed by Rate T-5 if, during the 17 month, the alternate receipt point represents the only point 18 of receipt utilized by the customer. These modifications are 19 appropriate since no additional administrative charges are 20 21 estimated to be incurred by Western Kentucky for Rate T-5 service when provided under Rate T-3 or when only one point of 22 receipt per month, whether primary or alternate, is utilized 23 24 by the customer.

Q. Mr. Lawrence, are there additional reasons why you believe the
 modifications to the proposed T-5 Tariff to be fair, just and

3

1 reasonable to all parties.

2 Α. WBI Southern believes these modifications will give 3 Western Kentucky's end-users an incentive to increase gas 4 usage because there will be more competitively priced gas 5 supply choices along with the concomitant increased system and 6 supply reliability such supply choices will bring. In 7 addition, new markets may develop for the competitively priced 8 natural gas.

9 In addition, we believe that the modified Rate T-5 more 10 closely approximates the costs Western Kentucky will 11 experience in providing the service than did the original 12 version of the tariff. Thus, the modified Rate T-5 will not 13 adversely affect other Western Kentucky customers.

In summary, unlike Western Kentucky's original Rate T-5
 proposal, these modifications will result in a lower cost gas
 supply and higher gas usage, which will benefit Western
 Kentucky, WBI Southern and consumers.

18 Q. Mr. Lawrence, does this conclude your testimony?

19 A. Yes, it does.

4

AFFIDAVIT

The affiant, Dale R. Lawrence, being duly sworn, deposes and states that the testimony attached hereto and made a part hereof, constitutes the testimony of this affiant in Case No. 99-070, in the Matter of the Application of Western Kentucky Gas Company for an Adjustment of Rates, and that if asked the questions propounded therein, this affiant would make the answers set forth in the attached testimony.

Affiant further states that he will be present and available for cross examination and for such additional direct examination as may be appropriate at any hearing in Case No. 99-070 scheduled by the Commission, at which time affiant will further reaffirm the attached testimony as his testimony in such case.

> <u>/s/ Dale R. Lawrence</u> Dale R. Lawrence

STATE OF North Dakota

COUNTY OF Burleigh

Subscribed and sworn to before me by Dale R. Lawrence on this the _____ day of December, 1999.

)

)

My commission expires: 3-15-02

Arllis Brown Notary Public JOHN N. HUGHES

Attorney at Law Professional Service Corporation 124 WEST TODD STREET FRANKFORT, KENTUCKY 40601

DEC 0 9 1999

RECEIVED

PLELIC SERVICE OCMANESION Telecopier: (502) 875-7059

Telephone: (502) 227-7270

December 8, 1999

Ms. Helen Helton Executive Director Kentucky Public Service Commission 730 Schenkel Lane Frankfort, KY 40602

Re: Case No. 99-070

Dear Ms. Helton:

Please file the attached affidavits verifying the rebuttal testimony of Western's witnesses. These were unintentionally omitted from the filing on Monday.

Thank you for your assistance, and if there are any questions about this matter or if additional information is needed, please contact me.

incerely Yours John N. Hughes

Attorney for Western Kentucky Gas Company

attachments

cc: Intervenors

BEFORE THE PUBLIC SERVICE COMMISSION

)

)

)

PUBLIC SERVICE

DEC 0 9 1999

RECEIVED

IN THE MATTER OF RATE APPLICATION OF WESTERN KENTUCKY GAS COMPANY

Case No. 99-070

CERTIFICATE

I, Betty L. Adams, have answered the foregoing questions propounded to me in the above enumerated Docket. These answers and exhibits constitute and I hereby adopt, under oath, these answers as my prepared rebuttal testimony in said case, which is true and correct to the best of my information and belief.

Betty L. Adams Vice President & Controller Western Kentucky Gas Company

COMMONWEALTH OF KENTUCKY

COUNTY OF DAVIESS

)) S.S.)

SUBSCRIBED AND SWORN TO before me by Betty L. Adams, on this 6th day of December, 1999.

Pearl Ann Simon

Notary Public State of Kentucky At Large.

My Commission expires: September 26, 2001.

BEFORE THE PUBLIC SERVICE COMMISSION

)

)

)

IN THE MATTER OF RATE APPLICATION OF WESTERN KENTUCKY GAS COMPANY

Case No. 99-070

CERTIFICATE

I, David H. Doggette, have answered the foregoing questions propounded to me in the above enumerated Docket. These answers and exhibits constitute and I hereby adopt, under oath, these answers as my prepared rebuttal testimony in said case, which is true and correct to the best of my information and belief.

David H. Doggette Vice President, Technical Services Western Kentucky Gas Company

COMMONWEALTH OF KENTUCKY

COUNTY OF DAVIESS

) S.S.

SUBSCRIBED AND SWORN TO before me by David H. Doggette, on this 6th day of December, 1999.

Pearl Ann Simon Notary Public State of Kentucky At Large.

My Commission expires: September 26, 2001.

BEFORE THE PUBLIC SERVICE COMMISSION

)

)

)

IN THE MATTER OF RATE APPLICATION OF WESTERN KENTUCKY GAS COMPANY

Case No. 99-070

CERTIFICATE

I, Gary L. Smith, have answered the foregoing questions propounded to me in the above enumerated Docket. These answers and exhibits constitute and I hereby adopt, under oath, these answers as my prepared rebuttal testimony in said case, which is true and correct to the best of my information and belief.

Gary L. Smith Vice President, Marketing Western Kentucky Gas Company

COMMONWEALTH OF KENTUCKY

COUNTY OF DAVIESS

)) S.S.)

SUBSCRIBED AND SWORN TO before me by Gary L. Smith, on this 6th day of December, 1999.

Pearl Ann Simon Notary Public State of Kentucky At Large.

My Commission expires: September 26, 2001.

BEFORE THE PUBLIC SERVICE COMMISSION

)

)

)

IN THE MATTER OF RATE APPLICATION OF WESTERN KENTUCKY GAS COMPANY

Case No. 99-070

CERTIFICATE

I, <u>Donald P. Burman</u>, have answered the foregoing questions propounded to me in the above-enumerated Docket. These answers and exhibits constitute and I hereby adopt, under oath, these answers as my prepared rebuttal testimony in said case, which is true and correct to the best of my information and belief.

Donald P. Burman Assistant Controller Atmos Energy Corporation

STATE OF TEXAS

)) S.S.

COUNTY OF DALLAS

SUBSCRIBED AND SWORN TO before me by <u>Donald P. Burman</u>, on this 6th day of December 1999.



My Commission expires: 03-06-2003

S. Chun

Sharon L. Quinn Notary Public State of Texas.

BEFORE THE PUBLIC SERVICE COMMISSION

)

)

)

IN THE MATTER OF RATE APPLICATION OF WESTERN KENTUCKY GAS COMPANY

Case No. 99-070

CERTIFICATE

I, <u>Thomas H. Petersen</u>, have answered the foregoing questions propounded to me in the above enumerated Docket. These answers and exhibits constitute and I hereby adopt, under oath, these answers as my prepared rebuttal testimony in said case, which is true and correct to the best of my information and belief.

homas

Thomas H. Petersen Director of Rates Atmos Energy Corporation

COMMONWEALTH OF KENTUCKY)

) S.S.

COUNTY OF DAVIESS

SUBSCRIBED AND SWORN TO before me by <u>Thomas H. Petersen</u>, on this 6th day of December, 1999.

)



<u>Ethel 3. Jaylar</u> Ethel Z. Taylor

Notary Public State of Texas

My Commission expires: <u>6-01-2002</u>.
COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

)

)

)

IN THE MATTER OF RATE APPLICATION OF WESTERN KENTUCKY GAS COMPANY

Case No. 99-070

CERTIFICATE

I, <u>Rebecca M. Buchanan</u>, have answered the foregoing questions propounded to me in the above enumerated Docket. These answers and exhibits constitute and I hereby adopt, under oath, these answers as my prepared rebuttal testimony in said case, which is true and correct to the best of my information and belief.

Rebecca M. Buchanan Senior Analyst - Rates Atmos Energy Corporation

STATE OF TENNESSEE

COUNTY OF WILLIAMSON

)) S.S.)

SUBSCRIBED AND SWORN TO before me on this 6th day of December, 1999.

Lois R. Carrier

(Name of Notary) Notary Public State of Tennessee

My Commission expires: July 26, 2003

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

)

)

)

IN THE MATTER OF RATE APPLICATION OF WESTERN KENTUCKY GAS COMPANY

Case No. 99-070

CERTIFICATE

I, Donald A. Murry, have answered the foregoing questions propounded to me in the above enumerated Docket. These answers and exhibits constitute and I hereby adopt, under oath, these answers as my prepared rebuttal testimony in said case, which is true and correct to the best of my information and belief.

Donald A. Murry, Ph.D. Consultant C. H. GUERNSEY & COMPANY

STATE OF OKLAHOMA

)) S.S.)

COUNTY OF OKLAHOMA

SUBSCRIBED AND SWORN TO before me by <u>Donald A. Murry</u>, on this 6th day of December, 1999.

Burney

Pat Burnett Notary Public State of Oklahoma At Large.

My Commission expires: 10-5-02

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION



In the Matter of: THE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN ADJUSTMENT OF RATES

Case No. 99-070

RESPONSE BY THE ATTORNEY GENERAL TO THE 6 DECEMBER 1999, PSC ORDER

Comes now the Attorney General, by and through his Office of Rate Intervention, and submits his Response to the Public Service Commission's 6 December 1999, Order in this case.

The Attorney General responds to the Commission's request by providing answers to each applicable question. Because the Settlement was reached by the Office of the Attorney General rather than its consultants, the Attorney General submits his position in this fashion rather than through direct testimony of any of his experts.

Respectfully submitted,

A.B. CHANDLER III ATTORNEY GENERAL

Dans Educh Spenal

David Edward Spenard Assistant Attorney General 1024 Capital Center Drive Frankfort, Kentucky 40601-8204 (502) 696.5457

Certificate of Service and Filing

Counsel hereby certifies that an original and twelve (12) photocopies of the foregoing Response by the Attorney General to the 6 December 1999, PSC Order were served and filed by hand delivery to the Hon. Helen C. Helton, Executive Director, Public Service Commission, 730 Schenkel Lane, Frankfort, Kentucky 40601; furthermore, it was served by mailing a true and correct copy of the same, first class postage prepaid, to William J. Senter, Western Kentucky Gas, 2401 New Hartford Road, Owensboro, KY 42303 1312, Mark R. Hutchinson, Sheffer, Hutchinson & Kinney, 115 East Second Street, Owensboro, KY 42303, John N. Hughes, 124 West Todd Street, Frankfort, KY 40601, Douglas Walther, Atmos Energy Corporation, P.O. Box 650205, Dallas, TX 75265, Keith Tiggelaar, WBI Southern, Inc., P.O. Box 5601, Bixmark, ND 58506 5601, and Robert M. Watt, Jr., J. Mel Camenisch, Jr., 201 E. Main Street, Suite 1000, Lexington, KY 40507-1380, all on this 9th day of December 1999.

Dand Edul Same Assistant Attorney General



ŀ

.

.

·

The Settlement includes an increase in Western's revenues of
\$9,940,000 with increases to the various customer classes as follows:

- a. Residential \$6,238,259, or 9.1 percent
- b. Commercial \$2,385,006, or 6.9 percent
- c. Industrial \$901,580, or 5.4 percent
- d. Other revenues \$415,089, or 55 percent

To the extent that the amount of increase and the allocation of the increase varies from what was proposed in either Western's or the intervenors' case in chief, as reflected in the original testimony filed in this proceeding, explain how the total amount as well as the amounts for individual rate classes included in the Settlement can be considered fair, just, and reasonable when the total amount of increase and the distribution of the increase proposed in each party's original testimony was also presented as being fair, just and reasonable.

<u>Response</u>

The Office of the Attorney General (OAG) intervened in this case to participate in the Public Service Commission's consideration of the Western Kentucky Gas Company's request for an adjustment in rates. Thereafter, the Office reviewed the Application, documents submitted in support of the Application, and materials provided by Western in response to data requests.

Using information then available in the record as a factual basis, the Office of the Attorney General subsequently filed direct testimony addressing the reasonableness of Western's request for an adjustment in rates as well as the allocation of the rate increase proposal. The testimony reflects the application of rate-making principles believed by the OAG to be the most appropriate in light of information that was available at the time.

The OAG took the position that \$7,417,710 was an appropriate increase in Western's annual revenues (Morgan, pre-filed Direct Testimony, p. 4), and the OAG also took the position that a proportional increase in class revenue responsibility for any rate increase ordered in this case was reasonable (Galligan, pre-filed Direct Testimony, pp. 22, 23).

With respect to the revenue requirement, the Attorney General notes that reasonable minds can differ on virtually every aspect of utility rate-making. Thus, there is a significant amount of discretion in setting rates that are reasonable and lawful, and, consequently, the rate-making process revolves around selecting a point within a range or zone of reasonableness.

The initial positions by the OAG reflect advocacy of a set of rate-making policies and economic theories. As noted above, such positions do not reflect the exclusive means to set rates. Further, as noted, the initial amount was a point within an overall zone or range of lawful outcomes.

During the process of negotiation, the Office reconsidered this mix of policies and theories as well as the evidence upon which a determination could be made. The Office made a determination that the revenue requirement Settlement amount was an amount within the range of amounts that could be lawfully supported by the evidence. Further, the Office made a determination that the amount represents an amount that is within a range of reasonable outcomes consistent with the Office's initial position in light of factors such as existing Commission precedent and additional information. In sum, the revenue requirement Settlement amount is consistent with the evidence, and it reflects a balancing of interest whereby the parties were able to identify a result consistent with each party's belief of an appropriate outcome within each party's range of reason.

With respect to the allocation of the rate increase, the OAG initially sought an across-the-board increase for the adjustment in rates (Galligan, pre-filed Direct Testimony, pp. 22, 23). Under the Settlement, the reduction in Western's revenue request is not an across-the-board scaling back. The Residential class will receive a greater portion of the Settlement reduction in Western's revenue requirement than the Industrial class, which has the greatest potential to secure additional benefits outside of a general rate case as a result of competition, whose reduction will be more modest.

Because the Residential class is the group least likely to be able take advantage of competition, the additional reduction reflects a reasonable balancing of the benefits of the rate request reduction. Additionally, considering the entire mix of tariff provisions under the Settlement, the ultimate allocation of the actual increase also reflects a reasonable balancing of interest.

2. To the extent that the tariffs included in the Settlement differ from, or are not consistent with, the position taken by Western, the AG, or WBI on said tariffs in their case in chief, as reflected in their original testimony, explain why the tariffs that have been included, excluded, or modified by virtue of the Settlement, are fair, just and reasonable.

<u>Response</u>

The Office of the Attorney General took the following positions with respect to the tariffs of Western Kentucky Gas Company. The OAG objected to the recovery of past DSM costs (Morgan, pre-filed Direct Testimony, page 18), the premises charge proposal, the lost margin recovery mechanism, and the proposed increase in Western's fixed base charge (Galligan, pre-filed Direct Testimony, pp. 4, 25 - 29). The OAG also noted that Western should provide evidence that its Interruptible Service offering is a different service from its firm service (Galligan, pre-filed Direct Testimony, pp. 4; 24, 25).

There is no difference between the OAG's initial position and the Settlement with respect to the issues of the past DSM costs and the premises charge proposal. With respect to Western's Interruptible Service offering, this feature of Western's tariff was in effect prior to this case. Thus, it is a matter that has previously been determined fair, just and reasonable. The OAG did not object to this practice per se in that it did not recommend modification or exclusion of this feature of Western's tariffs. Under the Settlement, Western will have a margin loss recovery mechanism. The mechanism per the Settlement differs significantly from the mechanism per the Application. Consequently, the mechanism per the Settlement is simply not the same provision addressed by Mr. Galligan's direct testimony, and that prior position is not directly applicable to the modification. In sum, the mechanism per the Settlement is consistent with the observations raised by the Attorney General's direct testimony.

The only actual change in position for the Office of the Attorney General concerns the residential customer charge increase from \$5.10 to \$7.50. On this point, the record includes evidence that could support a lawful finding consistent with either the OAG's position to leave the amount at \$5.10, or Western's position to increase the charge to \$9.00 a month, or, alternatively, a decision by the Commission to set the amount at a point between this two positions. Hence, the \$7.50 amount reflects an amount within the range of reason supported by the evidence.



3. (Additional Question Number 2). Western and the AG shall address the appropriateness of applying a late payment charge to only one customer classification.

Response

The understanding of the Office of the Attorney General is that the late payment charge applies to all customers – residential, commercial, public authority, and industrial – receiving service under Western's Rate G-1 service option. It the OAG's further understanding that the remaining customers who do not receive service under this tariff have different billing characteristics than their Rate G-1 counterparts. The billing characteristics of this group appear to be so unique as to afford the discretion to allow a reasonable basis for separate treatment.



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

December 6, 1999

To: All parties of record

RE: Case No. 1999-070

We enclose one attested copy of the Commission's Order in the above case.

Sincerely,

Stephanie Bell Secretary of the Commission

SB/sh Enclosure William J. Senter V.P. Rates & Regulatory Affairs Western Kentucky Gas Company 2401 New Hartford Road Owensboro, KY 42303 1312

Honorable Mark R. Hutchinson Attorney at Law Sheffer Hutchinson Kinney 115 East Second Street Owensboro, KY 42303

Honorable John N. Hughes Attorney for Western KY Gas 124 West Todd Street Frankfort, KY 40601

Mr. Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265

Honorable David Edward Spenard Assistant Attorney General 1024 Capital Center Drive Frankfort, KY 40601 8204

Hon. Robert M. Watt, Hon. J. Mel Camenisch, Jr. STOLL, KEENON & PARK, LLP 201 E. Main Street, Suite 1000 Lexington, KY 40507 1380

Mr. Keith Tiggelaar Manager-Regulatory Affairs WBI Southern, Inc. P.O. Box 5601 Bixmark, ND 58506 5601

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE RATE APPLICATION OF WESTERN KENTUCKY GAS COMPANY FOR AN AN ADJUSTMENT OF RATES

CASE NO. 99-070

<u>ORDER</u>

On December 3, 1999, Western Kentucky Gas Company ("Western"), the Attorney General of the Commonwealth of Kentucky ("AG"), and WBI Southern, Inc. ("WBI") filed a Joint Stipulation and Settlement ("Settlement") which the parties state represents a reasonable resolution of all the issues in this proceeding and is fair, just, and reasonable to the shareholders and ratepayers of Western. The Commission has determined that additional information is needed from the parties in order to permit the Commission the opportunity to conduct an adequate review of the terms of the Settlement and make a well informed determination as to whether the Settlement represents a reasonable resolution of all the issues in this proceeding.

IT IS THEREFORE ORDERED that Western, the AG, and WBI, shall each file the original and 12 copies of direct testimony, in written form, with the Commission, with a copy to all parties of record, by the close of business on Thursday, December 9, 1999. The testimony shall address the following issues, to the extent those issues were addressed in the original testimony of Western, the AG or WBI. 1. The Settlement includes an increase in Western's revenues of \$9,940,000 with increases to the various customer classes as follows:

- a. Residential \$6,238,259, or 9.1 percent
- b. Commercial \$2,385,006, or 6.9 percent
- c. Industrial \$901,580, or 5.4 percent
- d. Other revenues \$415,089, or 55 percent

To the extent that the amount of increase and the allocation of the increase varies from what was proposed in either Western's or the intervenors' case in chief, as reflected in the original testimony filed in this proceeding, explain how the total amount as well as the amounts for individual rate classes included in the Settlement can be considered fair, just, and reasonable when the total amount of increase and the distribution of the increase proposed in each party's original testimony was also presented as being fair, just and reasonable.

2. To the extent that the tariffs included in the Settlement differ from, or are not consistent with, the position taken by Western, the AG, or WBI on said tariffs in their case in chief, as reflected in their original testimony, explain why the tariffs that have been included, excluded, or modified by virtue of the Settlement, are fair, just and reasonable.

IT IS FURTHER ORDERED that:

1. Western shall file, as it did with its existing tariffs and the Settlement tariffs in Exhibit C of the Settlement, a side-by-side comparison of its proposed tariffs in this proceeding and the Settlement tariffs included in Exhibit A of the Settlement.

-2-

2. Western and the AG shall address the appropriateness of applying a late payment charge to only one customer classification.

3. Western shall address its timeliness in sending out customers' bills and whether customers should be reasonably able to remit payment within the time prescribed on their bills.

Done at Frankfort, Kentucky, this 6th day of December, 1999.

By the Commission

ATTEST Executive Director



COMMONWEALTH OF KENTUCKY **PUBLIC SERVICE COMMISSION** 730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KENTUCKY 40602 www.psc.state.ky.us (502) 564-3940 Fax (502) 564-1582

Paul E. Patton Covernor Ronald B. McCloud, Secretary Public Protection and Regulation Cabinet

Helen Helton Executive Director Public Service Commission

December 3, 1999

Mark R. Hutchinson, Esq. Sheffer-Hutchinson-Kinney 115 East Second Street Owensboro, Kentucky 42303

RE:

Western Kentucky Gas Company Case No. 99-070 Petition for Confidential Protection

Dear Mr. Hutchinson:

The Commission has received the petition filed November 15, 1999, on behalf of Western Kentucky Gas Company to protect as confidential the data modification related to tariff revision due to finalization of a special contract. A review of the information has determined that it is entitled to the protection requested on the grounds relied upon in the petition, and it will be withheld from public inspection.

If the information becomes publicly available or no longer warrants confidential treatment, you are required by 807 KAR 5:001, Section 7(9)(a) to inform the Commission so that the information may be placed in the public record.

Sincerely,

Executive Director

cc: All parties of record



AN EQUAL OPPORTUNITY EMPLOYER M/F/D

JOHN N. HUGHES

Attorney at Law Professional Service Corporation 124 WEST TODD STREET FRANKFORT, KENTUCKY 40601

Telephone: (502) 227-7270

November 15, 1999



Telecopier: (502) 875-7059

NOV 1 5 1999

PUBLIC RERVICE COMMINISION

Ms. Helen Helton Executive Director Kentucky Public Service Commission 730 Schenkel Lane Frankfort, KY 40602

Re: Case No. 99-070

Dear Ms. Helton:

On October 7, 1999, Western Kentucky Gas Company filed fourteen special contracts and supplemental information about the revenue effects those contract reformations had on the pending rate case. At that time, Western indicated that there was one outstanding contract to be renegotiated and that additional information would be filed by November 15th.

We are pleased to inform you that the customer accepted Western's proposal for continued transportation service, electing not to bypass the Company's system. An executed contract has been received from the customer and will be filed later this week.

As a result of the requirement that the special contract be filed with the Commission, the revenue requirement filed with the application in this case must be modified to include the effect of this latest contract reformation. Consequently, Exhibits GLS-1, GLS-3, and GLS-7 (testimony of Gary Smith, vol. 2 of 10, tab 11); FR10(10)n - schedule 2 of 2 (vol. 10, tab 13); and Commission data requests: PSC DR#1-47(a) and PSC #3-9 as updated are attached.

Because some of the information included in these responses is confidential, a petition for confidentiality is also being filed.

If there are any questions about this matter or if additional information is needed, please contact me.

Sincerely yours, hn N. Hughes

Attorney for Western Kentucky Gas Company

cc: Intervenors

Files (

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION NOV 1 5 1999

PUBLIC CLIVICE COMMENCIA

IN THE MATTER OF:

RATE APPLICATION OF WESTERN KENTUCKY GAS COMPANY

Case No. 99-070

PETITION FOR CONFIDENTIALITY OF CERTAIN INFORMATION PROVIDED IN VARIOUS REVISED APPLICATION SCHEDULES

Comes now Western Kentucky Gas Company ("Western"), pursuant to 807 KAR 5:001, Section 7, and all other applicable law, and for its Petition for Confidentiality, states as follows:

Since the filing of its application in this proceeding, Western finalized fourteen (14) special contracts, all of which were filed with the Commission. As a result of the finalization of those contracts, it was necessary for Western to revise certain of its application schedules to reflect the anticipated changes in revenue. Since that time Western has finalized one additional special contract which will also be filed with the Commission. It is accordingly necessary for Western to again modify the application schedules to reflect the effect on revenue created by this additional special contract.

Western has therefore modified the following application schedules: Exhibits GLS-1, GLS-3, and GLS-7 (Testimony of Gary Smith at Volume 2 of 10, Tab 11), and FR 10(10)n-Schedule 2 of 2 (Volume 10, Tab 13).

1

The information contained in Exhibit GLS-1 Schedules 2 through 4 of 4 and Exhibit GLS-7 Schedules 2 through 4 of 4 reveal volume and discount levels for the special contract industrial customer for whom a discount has been negotiated. The Commission has previously ruled in this proceeding that proprietary information of this nature is entitled to confidential protection for the reasons set forth below.

Pursuant to KRS 61.878(1)(c) the following documents are eligible for confidential treatment:

"Upon and after July 15, 1992, records confidentially disclosed to an agency or required by an agency to be disclosed to it, generally recognized as confidential or proprietary which is openly disclosed would permit an unfair commercial advantage to competitors of the entity that disclosed the records--".

This is the same standard adopted by the Commission pursuant to 807 KAR 5:0001, Section 7. Company specific details concerning volumes and confidentially negotiated discounts with private enterprises are generally recognized as confidential and proprietary. Disclosure of details pertaining to a particular customer's volume and discount, are likely to cause substantial competitive harm to Western. Knowledge of these facts will provide Western's competitors with a substantial advantage in future business negotiations with Western's customers. Western's competitors would have clear advantage in competing for these customers since knowledge of existing Western discounts would enable them to slightly undercut Western's charges. On the other hand, Western's unregulated competitors are nor required to make public similar information.

2

Accordingly, the value of the information is derived by not being readily ascertainable by Western's competitors who would have a clear economic advantage upon disclosure. Negotiations concerning the discount were maintained with strict confidentiality. None of this information is posted or otherwise generally made available within the company or without. Only those employees of Western who have a legitimate need to know have knowledge of this information.

Additionally, disclosure of this information would put Western at a disadvantage in future negotiations of special contracts with other industrial customers. There would be little room for bargaining when a potential customer knows exactly what discounts Western has negotiated with other industrial customers. This likewise would put Western at an unfair commercial disadvantage.

WHEREFORE, Western respectfully requests that the attached be treated as confidential. One copy of the attached has been submitted with the confidential portions highlighted for review and consideration by the Commission. Redacted copies of these documents have been submitted with Western's filing.

Respectfully submitted this <u>15</u> day of November, 1999.

Douglas Walther Atmos Energy Corporation P.O. Box 650205 Dallas, TX 75265

SHEFFER - HUTCHINSON - KINNEY Mark R. Hutchinson 115 E. Second St. Owensboro, KY 42303

John N. Hughes 124 West Todd Street Frankfort, KY 40601

Attorneys for Western Kentucky Gas Company

Mulle By:_

VERIFICATION

I, Gary Smith, being duly sworn under oath, state that I am Vice President of Marketing of Western Kentucky Gas Company, and that the foregoing statements are true of my own knowledge except as to those matters therein stated on information and belief, and as to those matters I believe them to be true.

Gary Sphith

STATE OF KENTUCKY COUNTY OF DAVIESS

SUBSCRIBED AND SWORN to before me by Gary Smith on this the day of November, 1999.

Detton Lee Maam Notary Public State of Lang

My Commission: <u>7-25-2000</u>

CERTIFICATE OF SERVICE

I hereby certify that on the \underline{k} day of November, 1999, this Petition, together with fifteen (15) copies, was filed with the Kentucky Public Service Commission, 730 Schenkel Lane, Frankfort, Kentucky 40602, and a true copy thereof mailed by first class mail to the following named persons:

Hon. David Spenard Assistant Attorney General Office of Rate Intervention 1024 Capitol Center Drive Frankfort, Kentucky 40601

Hon. Mel Camenisch, Jr. Stoll, Keenon & Park, LLP 201 E. Main Street Suite 1000 Lexington, Kentucky 40507-1380

Mark R. Hutchinson

wkg\psc\rate\pet for con of revised application schedules2