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PUBLIC SERVICE COMMISSION

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BEFORE THE PUBLIC SERVICE COMMISSION

COMMONWEALTH OF KENTUCKY

IN THE MATTER OF

) CASE NO. 2006-00464

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RATE APPLICATION BY

ATMOS ENERGY CORPORATION MID-STATES/KENTUCKY

RESPONSE OF ATMOS ENERGY CORPORATION, KENTUCKY TO

KPSC DATA REQUEST DATED FEBRUARY 23, 2007

(KPSC DATA REQUEST NO. 2)

DR 1 - DR 11, DR 13 - DR 36, DR 38 - DR 57

MARCH 16, 2007

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Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 1 Witness: Tom Petersen

Data Request:

Has Atmos performed any analysis of financial information and operations to determine why it has not been able to earn an adequate rate of return?

- a. If yes, provide and describe the results of that analysis.
- b. If no, explain why such an analysis has not been performed.

Response:

The reasons why the Company has initiated this rate case, including the financial reasons therefor, are more fully discussed in the direct testimony of Mr. John Paris. With respect to the sufficiency of the Company's rate of return, please see the direct testimony of Dr. Donald Murry and accompanying workpapers.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 2 Witness: Laurie Sherwood

Data Request:

Provide the actual earned return on capital and earned return on equity for Atmos for each year for 2000 through 2006.

Response:

The requested return measures are provided below for Atmos Energy Corporation. Return on capital is calculated as net income divided by the simple average of beginning and ending total capitalization.

Annual Return on Capital, 2000 – 2006

2000	4.76%
2001	5.53%
2002	4.74%
2003	4.84%
2004	4.64%
2005	4.70%
2006	3.88%

Annual Return on Equity, 2000 – 2006

2000	9.3%
2001	10.4%
2002	9.9%
2003	9.9%
2004	9.1%
2005	9.0%
2006	8.9%

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 3 Witness: Tom Petersen

Data Request:

Provide the actual increase in net rate base for Atmos for each year for 2000 through 2006.

Response:

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Total Atmos utility rate base was estimated by using unadjusted per books amounts. A summary of the calculation of the rate base for each calendar year and a calculation of the annual increase in rate base is shown on the attached schedules labeled Case 2006-00464 KPSC DR2-3 ATT.

Atmos Energy Corporation Case No. 2006-00464 KPSC Staff Request 2-3 Total Atmos Rate Base

Calendar Year

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alendar Year	Rate Base	Change
2000	875,867,982	
2001	1,025,860,040	149,992,058
2002	1,134,384,634	108,524,594
2003	1,326,676,984	192,292,351
2004	1,784,850,050	458,173,065
2005	3,190,267,177	1,405,417,127
2006	3,444,461,678	254,194,502

Average 1,467,001,765 31,423,281 (562,392,255) 17,450,289 5,787,107 40,903,509 5,053,267 (10,712,191) (1118,646,750) 875,867,992	1,578,059,882 47,504,179 (650,266,704) 17,346,531 48,953,578 8,893,478 8,893,4780 (11,183,780) (118,046,493) (118,046,493)	1,969,120,546 37,910,314 (804,481,731) 18,466,124 3,560,837 49,719,559 5,560,837 (11,94,959 (1133,673,339) (133,673,339)
Dec-00 1,495,416,675 35,039,812 35,039,812 5,401,447 5,401,447 6,61,04,366 6,6104,366 6,637,726 (120,290,146)	1-Dec 1,891,484,172 39,975,999 (767,675,249) 4,024,939 77,865,184 6,4865,184 6,14865,184 (113,838,877) (132,845,086)	2.Dec 2.292,188,279 30,880,734 (948,581,535) 4,514,305 77,938,812 77,938,812 77,938,812 77,938,812 (12,772,482) (160,813,970)
Nov-00 1,498,170,999 34,197,450 (583,078,942) 5,385,314 74,347,465 8,084,422 (10,986,412) (125,501,940)	1-Nov 1,886,301,193 35,875,255 (761,493,002) 4,259,503 79,619 8,361,619 8,361,619 (126,126,658) (126,126,658)	2-Nov 1,999,725,996 24,813,183 (810,299,189) 2,783,233 75,540,039 75,540,039 (1130,351,099) (130,351,099)
Oct-00 1,501,179,541 31,653,234 (578,242,184) 5,398,616 70,388,509 8,381,548 (10,950,699 (125,782,717) (125,782,717)	1-Oct 1,860,572,479 53,894,763 (755,215,448) 4,374,250 80,242,692 9,726,721 (11,858,825) (126,048,292)	2-Oct 1,992,195,619 21,851,270 (804,597,429) 2,885,223 71,038,888 10,721,476 (12,130,186,956) (130,186,956)
Sep-00 1,493,043,574 33,121,994 (574,717,631) 5,293,705 61,462,886 81,472,886 81,472,886 (10,946,479) (125,782,719)	1.852,825,956 53,555,639 (749,902,986) 4,606,697 71,130,264 10,233,486 (11,693,607) (126,048,292)	2.Sep 1,991,929,559 15,769,845 (800,184,381) 2,840,051 63,343,205 7,187,205 7,187,205 (12,048,722) (130,575,306)
Aug-00 1,486,038,514 39,274,994 (575,688,366) 5,591,921 42,702,785 8,739,049 (10,091,947) (118,814,091)	1-Aug 65,595,550 (619,687,508) 3,985,550 70,258,939 19,156,7130 (11,657,1130 (124,322,536)	2-Aug 1,963,019,830 40,298,236 (803,368,732) 3,033,828 5,9533,828 5,952,260 (11,852,594) (143,490,539)
Jul-00 1,467,831,479 33,763,863 (552,039,513) 5,865,969 37,102,994 7,444,725 (1110,921,486) (118,921,486)	1-Jul 1.888,879,653 60,299,989 (616,150,685) 4,174,108 56,777,897 16,846,821 (10,716,023) (124,401,117)	2-Jul 1,957,613,044 41,198,055 (805,972,488) 3,805,895 40,022,205 40,022,205 41,1371,1665 (114,206,658) (144,206,658)
Jun-00 1,463,726,670 32,933,811 (547,613,951) (547,613,951) (547,613,951) 5,587,717 30,036,415 2,466,834 (111,106,720) (118,728,292) (118,728,292)	1.519.031,311 54,692,896 (610,623,391) 4,412,759 33,196,010 17,098,393 (10,677,515) (124,543,424)	2-Jun 1,941,187,947 45,432,681 (799,771,768) 3,917,539 3,917,539 3,194,501,4730 (114,601,473)
May-00 1,445,555,438 33,083,456 (531,411,991) 5,901,024 16,145,589 2,326,289 (5,422,967) (112,539,753)	1,515,491,425 49,055,842 (606,100,369) 4,475,591 11,105,681 2,945,13 (10,717,718) (97,432,948)	2-May 1,930,530,170 46,986,812 (793,812,918) 3,929,308 18,407,984 2,163,615 (116,635,690) (118,289,895)
Apr-00 1,409,964,217 30,244,127 (526,153,616) 6,031,760 14,516,505 2,233,881 (112,882,825) (112,882,825)	1-Apr 1,506,941,861 47,357,084 (601,249,927) 4,625,172 1,373,352 1,373,352 2,948,489 (10,773,684) (97,983,346)	2.Apr 1,920,947,465 46,705,292 (787,728,273) 4,026,376 15,169,156 2,938,705 (11,882,308) (118,452,022)
Mar-00 1,441,644,698 33,411,584 (557,019,427) 6,069,741 16,725,673 2,197,551 (12,552,228) (112,630,678)	1,503,882,706 42,978,287 (596,140,280) 4,971,592 22,469,984 3,446,473 (10,777,661) (93,681,328)	2-Mar 1,913,115,068 48,595,535 (784,321,905) 4,444,212 27,454,088 3,327,439 (118,296,726) (118,296,726)
Feb-00 1,460,097,692 19,950,620 (562,556,005) 6,199,154 2,497,766 (12,813,174 2,497,766 (12,813,134) (116,721,074)	1.502,518,190 39,634,060 (593,522,695) 5,232,723 30,616,493 4,179,925 (10,883,863) (120,616,603)	2-Feb 45,956,214,769 45,956,961 (778,717,982) 3,541,958 41,499,519 4,427,346 (11,611,812) (132,731,404)
Jan-00 1,457,103,804 25,137,336 (570,187,099) 6,295,526 34,773,872 2,710,145 2,710,145 (116,906,016) (116,906,016)	1,494,959,594 38,689,176 (588,250,216) (588,250,216) 5,248,321 35,645,028 5,549,745 (10,949,873) (120,264,631)	2.Jan 1,898,415,185 44,571,505 (773,270,446) 3,844,213 59,436,471 59,436,471 59,436,471 59,436,471 59,436,471 59,436,471 59,436,471 59,2912,280)
Beg BaJAN-00 1,451,249,649 25,690,367 (564,935,522) 6,230,502 45,805,377 2,861,279 (116,905,016) (116,905,016)	Beg BalJAN-01 1,495,416,675 36,039,812 (587,455,191) 5,401,447 66,104,366 6,633,726 (10,963,945) (120,290,146)	Beg Bal/AN-02 1,891,484,172 39,975,970 (767,675,253) 4,024,940 77,865,164 6,468,265 (11,1838,876) (132,045,085)
RUT Calendar 2000 Description Gross Plant CWIP Accum. Depre. CWC M&S Storage Gas Prepaids Customer Advances DIT Rate Base	RUT Calendar 2001 Description Gross Plant CWIP Accum. Depre. CWC M&S Storage Gas Prepaids Customer Advances DIT Rate Base	RUT Calendar 2002 Description Gross Plant CWIP Accum. Depre. Accum. Depre. CWC M&S Storage Gas Prepaids Customer Advances DIT Rate Base

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Atmos Energy Corporation Cases No. 2006-00464 KPSC Staff Request 2-3 Total Atmos Rate Base Workpaper

Rate Base

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2,323,777,919 37,233,111 (950,825,547) 24,777,998 5,120,956 5,453,339 (13,226,573) (131,755,870) (132,226,576,994	3.017,982,869 50.691,463 50.691,463 34.217,788 3.632,333 135,506,249 7.164,332 (14,789,910) (219,658,154) (1789,910)	5,169,410,407 111,637,955 (2,185,953,076) 54,282,932,478 8,396,656 259,878,124 12,311,494 12,311,494 (19,055,992) (220,642,326) (220,642,326)
3-Dec 34,717,839 (945,742,183) 3,148,149 135,552,82 135,552,82 (13,689,531) (241,641,291)	4-Dec 5,065,225,995 72,8861,894 (2,118,902,060) 6,657,308 320,714,911 7,639,485 (18,929,014) (150,222,856) -	5-Dec 5,337,346,120 108,065,347 (2,238,077,731) 6,471,571 390,039,698 6,986,459 (19,288,696) (247,546,427)
3-Nov 2356,521,155 28,721,541 (938,705,741) 3,342,673 147,653,791 (13,719,563,791 (13,719,700) (122,197,494)	4-Nov 5,039,784,814 83,322,124 (2,104,023,223) 8,041,005 336,331,635 15,289,255 (17,437,976) (17,437,976) (205,244,605)	5.264.321.077 141.621.300 (2.231.286.266) (2.231.286.266) (3.996.451 409.153.422 (19.190.331) (226.589.764)
3-Oct 344,276,482 2,244,276,482 2,22,952,836 (932,254,714) 3,353,246 138,896,361 138,896,361 138,895,361 138,855 113,854,855 1(13,854,855) (221,911,743)	4-Oct 5,025,155,775 78,046,810 (2,090,529,943 8,299,943 325,825,733 14,516,875 (17,236,213) (204,883,636)	5.0ct 5,236,249,078 149,063,946 (2,221,182,553) 6,906,290 370,738,355 16,192,291 (19,133,582) (226,596,843)
3-Sep 3-Sep 15,670,752 (925,804,369] 3,419,913 120,646,351 7,472,009 (13,700,749) (221,912,180)	4-Sep 2,479,741,679 37,789,507 (983,017,091) 2,162,178 156,771,921 8,555,734 (14,119,928) (208,325,221)	5,225,655,369 133,057,184 (2,210,361,288) 7,048,131 310,610,367 12,663,311 (18,871,787) (226,322,549)
3-Aug 3-Aug 42,723,261 (941,629,882) 4,249,674 103,540,365 5,926,674 (13,434,295) (159,813,035)	4-Aug 2,454,058,840 47,223,853 (985,507,534) 2,040,338 122,097,954 8,677,140 (14,214,907) (214,542,655)	5,100,118,5409 5,190,118,300 130,7665,553 8,037,385 253,970,211 15,415,849 (19,259,953) (219,614,437)
3-Jul 3-Jul 44,161,897 (952,862,366) 4,508,521 71,562,569 6,627,683 (159,704,246) (159,704,246)	4-Jul 44,08,656 (980,863,656) 1,842,905 84,836,279 7,498,412 (14,048,730) (222,761,789)	5-Jul 5.182,388,682 120,964,740 (2.206,907,251) 10,161,507 220,439,146 9,529,019 (19,178,887) (219,793,426)
3-Jun 3-Jun 2,342,550,196 39,214,153 (972,722,486) 4,787,434 41,699,437 3,642,681 (159,622,001) (159,622,001)	4-Jun 44,905,728,010 41,905,499 (974,988,022) 1,975,503 47,605,799 5,538,419 (1320,061) (225,631,952)	5.166,677,834 114,418,736 (2,193,469,238) 10,487,574 11,413,278 11,413,278 (19,239,992) (219,766,424)
3-May 3-May 49,704,760 (966,108,979) 6,451,141 23,016,214 2,661,965 (13,282,254) (165,001,866)	4-May 52,404,619,452 52,315,063 (972,497,023) 2,162,731 2,162,731 2,794,815 3,794,815 (13,788,163) (232,581,320)	5,135,435,987 5,135,435,987 115,626,836 (2,180,843,699) 9,092,894 17,182,867 17,182,867 (18,906,499) (240,213,394)
3.Apr 3.4,779,795 44,779,795 (962,296,174) 6,823,241 14,823,225 7,256,044 (12,918,309) (164,572,956)	4.Apr 2,400,479,804 47,584,544 (988,430,511) 2,540,249 18,749,674 18,749,674 18,749,674 13,527,223) (232,860,052)	5,124,369,635 97,677,978 (2,169,418,089) 14,813,853 132,625,038 6,390,812 (18,747,191) (240,203,749)
3-Mar 3-Mar 42,090,981 (957,254,440) 7,485,638 9,122,269 7,331,291 (12,866,180) (164,578,389)	4.Mar 4.1,219,763 (960,650,590) 2.553,720 2.553,720 2.7,492,388 3.575,261 (13,829,561) (232,917,979)	5,105,723,758 94,759,372 (2,156,506,064) 8,406,392 152,641,920 13,139,294 (18,967,377) (240,227,510)
3-Feb 3-Feb 46,302 239 (961,169,706) 7,247,239 7,247,239 7,247,239 7,247,239 (12,815,555 (12,815,555 (12,815,555) (160,443,452)	4-Feb 39,6702,657 39,6702,657 (955,104,857) (955,104,857) 2,841,581 63,974,968 4,443,800 (13,813,0053) (242,052,894)	5-Feb 5,089,418,255 93,229,174 (2,143,997,376) 7,093,814 7,093,814 12,263,841 (19,075,448) (205,598,571)
3-Jan 2,292,052,164 2 42,229,657 (955,599,537) (955,599,537) 7,541,257 64,475,608 8,502,746 (12,766,085) (180,613,683)	4-Jan 2,365,717,417 40,232,322 (948,411,067) 2,954,715 99,230,411 3,999,568 (13,834,470) (241,889,753)	5,079,405,199 79,180,492 (2,130,752,893) 6,983,360 254,727,199 17,433,826 (18,959,357) (205,654,293)
Beg BalJAN-03 2.392,188,279 30,680,733 (948,581,536) 4,514,304 7,598,812 7,598,812 7,598,812 7,598,419 (12,772,481) (160,613,970)	Beg BalJAN-04 2,365,106,837 34,717,838 (945,742,183) 3,148,149 135,552,282 5,142,081 (13,689,530) (241,641,291)	Beg BalJAN-05 5,065,225,994 72,861,893 (2,118,902,058) 6,657,311 7,639,487 (18,928,014) (150,222,856)
RUT Calendar 2003 Description Gross Plant CWIP Accum. Depre. CWC M&S Storage Gas Prepaids Prepaids DIT	Rate Base RUT Calendar 2004 Description Gross Plant CWIP Accurn. Depre. CWIC M&S Storage Gas Prepaids Customer Advances DIT	RUT Calendar 2005 Description Gross Plant CWIP Accum. Depre. CWC M&S Storage Gas Preparks DIT

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Atmos Energy Corporation Case No. 2006-00464 KPSC Staff Request 2-3 Total Atmos Rate Base Workpaper

Rate Base

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Atmos Energy Corporation Case No. 2006-00464	Total Atmos Rate Base Workpaper
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Average 5,495,572,810 97,707,995 (2,276,623,067) 50,475,247	5,680,129 346,372,744 17,416,318 (19,009,548) (273,130,949)	3,444,461,678
DEC-06 5,668,402,663 63,137,177 (2,329,694,419)	6,205,967 372,568,296 9,831,302 (17,706,666) (299,672,022)	"
NOV-06 5,627,991,668 78,497,472 (2,317,048,881)	6,010,509 402,135,135 16,141,366 (17,690,706) (285,285,910)	
OCT-06 5,621,743,461 65,947,443 (2,314,485,005 <u>)</u>	5,809,257 403,939,348 18,261,895 (17,390,268) (284,746,295)	
SEP-06 5,597,954,594 73,695,721 (2,307,412,801)	5,562,638 383,679,792 15,356,841 (17,481,354) (284,392,152)	
AUG-06 5,542,126,144 94,646,547 (2,276,287,462)	5,611,535 352,796,730 19,393,097 (20,783,255) (264,698,938)	
JUL-06 5,522,204,759 82,941,277 (2,263,694,311)	5,346,965 316,733,434 18,766,808 (20,065,056) (264,548,608)	
JUN-06 5,501,658,828 81,762,695 (2,249,574,450)	5,430,060 285,456,378 17,944,048 (19,832,816) (264,419,294)	
MAY-06 5,462,310,497 108,727,819 (2,269,951,563)	5,410,641 244,166,307 24,210,347 (19,676,673) (286,802,064)	
APR-06 5,428,120,421 131,154,657 (2,274,034,246)	5,446,743 196,622,811 24,867,120 (19,565,182) (286,420,272)	
MAR-06 5,406,791,317 128,491,882 (2,263,898,541)	5,456,595 238,658,277 19,010,973 (19,299,711) (286,118,314)	
FEB-06 5,374,400,987 132,060,137 (2,251,489,100)	5,618,445 316,972,859 23,032,241 (18,943,543) (248,243,725)	
JAN-06 5,351,395,067 121,075,764 (2,240,451,367)	5,460,747 347,378,028 12,609,638 (19,420,196) (247,808,313)	
Beg BalJAN-06 5,337,346,119 108,065,348 (2,238,077,731)	6,471,571 390,039,698 6,986,459 (19,268,696) (247,546,429)	
RUT Calendar 2006 Description Gross Plant CWIP Accum. Depre.	CWC M&S Storage Gas Prepaids Customer Advances DIT	

Rate Base

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 4 Witness: Gary Smith

Data Request:

Refer to the Application, page 3, paragraph 8 and Volume 1, Tab 1, FR 10(1)(b)(1).

- a. Provide a detailed discussion regarding the impact on customer sales volumes and overall revenue of the increased competition within the gas industry and from other energy providers. Include the percentage reduction in customer sales volumes and overall revenues from increased competition for each year since Atmos's last rate case. Include supporting workpapers.
- b. Provide a detailed discussion regarding the impact of energy conservation on residential customer volumes and overall revenue. Include a detailed discussion of the derivation of the \$4.3 million reduction in customer sales volumes and overall revenues from energy conservation since Atmos's last rate case as shown in Volume 1, Tab 1, Item 4, FR 10(1)(b)(1). Include supporting workpapers.
- c. Does the statement that Atmos is experiencing significant declines in residential customer volumes related to energy conservation refer to all of Atmos's gas utility operating divisions taken as a whole or to the Kentucky/Mid-States division only? Explain the response.
- d. Provide copies of any studies or analyses prepared by or for Atmos that supports the statement that the significant declines in residential customer volumes it has been experiencing are related solely to energy conservation.

Response:

a. Declining core market usage, on a weather normalized basis, is a longstanding phenomenon. In Case 99-070, Company witness Gary Smith profiled this issue and its impact on the Company's financial performance. That identified trend, however, is more severe subsequent to the 1999 rate case. Further, the Company has observed an unprecedented loss of customers (attrition) subsequent to the last rate case. Statistics documenting the post-2000 era, including the requested annual review of volumetric trends and net customer changes each year is attached as Attachment KPSC DR 2-4(a).

These new market reactions, the Company believes, are attributable primarily to higher pass-through gas costs beginning dramatically in the winter of 2000-2001. While gas costs have increased significantly, as compared to the pre-2000 era, electric rates in Kentucky remain among the lowest in the US and have not increased as dramatically as retail natural gas service. Steeper declines in weather-adjusted usage, we believe, represent heightened conservation efforts and/or the displacement of natural gas with other energy sources. Likewise, we believe lost customers represent displacement of natural gas with other energy sources in most cases. Atmos Energy believes that its growth to new customers during the period from FY 2000 through FY 2006 has consistently ranged between 1800-2100 per year. Conservatively, therefore, the Company has constructed facilities to add 12,000 customers during this period; however, our net change in average active customers has declined almost 2,700.

Atmos Energy is unable to distinguish the individual impacts of the many factors (appliance energy efficiency gains, conservation efforts, low-cost competition, lower appliance market penetration, etc.) contributing to the evident declining usage trends and higher rates of customer loss.

Please also refer to the Company's response to KPSC DR 2-52 (b-c).

- Please refer to the Company's response to subpart (a) of this data request above. Also the Company has attached the workpapers computing the financial impact of declining usage amounting to more than \$4.3 million since our last rate case. Additionally, the workpapers show a loss of margin of more than \$1.0 million due to the net decrease in active customers since that case.
- c. The statement was offered from the perspective of Kentucky operations. However, the statement would be true for most, if not all, of the jurisdictions Atmos Energy serves. Industry studies in recent years indicate that the trend of declining per customer gas usage is prevalent throughout most of the US.
- d. The statement "Atmos is experiencing a significant decline in residential customer volumes related to energy conservation" is not intended to imply that all of volume decline is attributable to energy conservation. It is difficult to ascertain the relative significance of all factors which have contributed to the measured declining trends. The most recent report by the American Gas Association regarding factors affecting residential gas usage patterns was published in June 2003, called "Patterns in Residential Natural Gas Consumption, 1997-2001". The Executive Summary of that analysis is provided as Attachment KPSC DR 2-4(d).

U LJK 1-4(a)	Ц		gin Loss	1 0121		12555 186)		(\$289,104)	\$1/3,002	(\$442,225)	(\$450,788)	(\$1,109,921)														
Attachment KPSU UK 1-4(a)	Ж		Volume Margin Loss	per Cust.		163 631	(cn.ce)	(02.54)	\$1.12	(\$2.86)	(\$2.92)	(\$7.23)														
	-		Volume Loss	From Prior Yr.		0.07	(n.c)	(3.2)	0.9	(2.4)	(2.4)	(6.1)														
	I		Normal	per Cust	C 70	7.40 C 10	7.18	6.17	78.9	76.5	74.0	61.9														
	Н		Average	Customers	200 221	007'001	101,201	152,994	155,066	154,469	154,643	153,511														
	IJ		Normal	Total		13,132,032	12,428,021	11,920,826	12,228,211	11,809,482	11,443,964	10,427,524				Margin Loss	Total			(\$569,930)	(\$28,718)	\$380,934	(\$108,119)	\$30,968	(\$193,297)	
	ír.		Normal	Heating Load		10,457,554	9,923,163	9,470,234	9,684,061	9,394,716	8,855,714	8,314,946				Cust. Count Margin Loss	per Cust.			\$186.57	\$182.72	\$183.84	\$180.98	\$178.06	\$170.83	
	ш		Annual	Heating Load Heating Load		8,887,819	10,376,192	8,315,114	10,097,146	8,669,046	7,898,064	7,446,449				I										
	Q		Total	Volume		11,582,917	12,881,654	10,765,706	12,641,296	11,083,812	10,486,314	9,559,027				Net Cust. Loss	From Prior Yr.			(3,055)	(157)	2,072	(267)	174	(1.132)	~
	U	age	Monthly	Base Load		224,592	208,789	204,216	212,013	201,231	215,688	176,048		r Losses		Average	Customers		156,206	153,151	152,994	155,066	154,469	154,643	153.511	
	в	Residential Declining Usage	% Normal	DD		85.0%	104.6%	87.8%	104.3%	92.3%	89.2%	89.6%		Residential Net Customer Losses												
	A	Residential		Period		FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006		Residential			Period		FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FV 2006	
	Line No.		***	2	÷	4	5	9	7	~ ~~	6	10	11	12	13	14	15	16	17	18	19	20	21	22	1 %	14

Attachment KPSC DR 1-4(a)

Line No.	A	В	С	D	E Volume
		Annual Bills	Customers	<u>Volume, Mcf</u>	Per Cust.
1	<u>Case 99-070</u>		450.400		
2	Residential	1,901,828	158,486	13,026,240	82.2
3	Com/PA	235,245	19,604	7,210,034	367.8
4					
5	Case 2006-00464	<i></i>			
6	Residential	1,845,778	153,815	10,075,515	65.5
7	Com/PA	230,594	19,216	5,923,362	308.2
8					
9	Volume/Cust. Decline:				
10		Volume	Current	Margin	Financial
11		<u>Per Cust.</u>	<u>Customers</u>	<u>per Mcf</u>	<u>Cost</u>
12	Residential	(16.7)	153,815	\$1.1900	(\$3,054,516)
13	Com/PA	(59.5)	19,216	\$1.1190	<u>(\$1,280,274)</u>
14	Total				(\$4,334,790)
15					• • • •
16	Reduced Cust. Count:				
17		Customer	Current Aver	age Annual	Financial
18		Reduction	Margin per	-	<u>Cost</u>
19	Residential	(4,671)	\$167		(\$784,466)
20	Com/PA	(388)	\$584		(\$226,709)
21	Total	(000)	\$00		(\$1,011,176)
21	i otai				(\$1,011,170)

Attachment KPSC DR 2-4(d) Sheet 1 of 4

AGA American Gas Association

Energy Analysis

POLICY ANALYSIS GROUP 400 N. Capitol St , NW Washington, DC 20001 www.aga.org

EA 2003-01

June 16, 2003

PATTERNS IN RESIDENTIAL NATURAL GAS CONSUMPTION, 1997-2001

I. Introduction

This analysis concludes that natural gas use per residential customer dropped by 6.4 percent from 1997 through 2001. This reduction per customer is in addition to a 16 percent reduction observed from 1980 through 1997. Nationally, natural gas use per residential customer was 106 thousand cubic feet (Mcf) per year in 1980, 89 Mcf per year in 1997, and 83 Mcf per year in 2001 (Chart 1). A previous AGA analysis¹ quantified the primary factors contributing to this decline on both a national and a regional basis and those same factors are again analyzed herein for the more recent period. It should be noted that all data in these analyses have been adjusted to reflect normal weather.

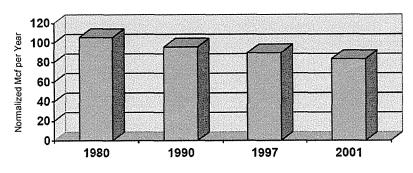


Chart 1 Use Per Residential Customer

¹ Patterns in Residential Natural Gas Consumption Since 1980, American Gas Association. February 2000

© 2003 by the American Gas Association

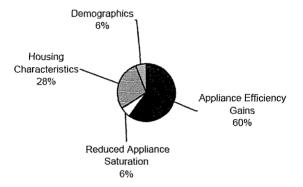
Attachment KPSC DR 2-4(d)

Sheet 2 of 4

II. Executive Summary

Similar to the findings of the previous analysis, the primary cause of the declining use trend was increasing efficiency of gas appliances, predominately space heaters. Other factors include a reduction in the number of gas appliances in homes served with gas and tighter, more energy efficient homes. Chart 2 shows the estimated proportional impact of the various factors contributing to this decline on a national basis.





- Regional variation was observed. There was a decline in the use per customer in all regions of the country: The Northeast lost 1.74 Mcf/year comparing 1997 to 2001, the South and the West lost 2.17 Mcf/year, and the Midwest 4.31 Mcf/year (Table 1). Graphical representation of some of the factors contributing to these trends can be seen in Chart 3.
- Space heating efficiency gains contributed almost half of the residential load loss. In 1997, the average furnace efficiency was estimated to be around 74 percent AFUE, since some furnaces sold before federal regulations set the minimum gas space heating efficiency at 78 percent were still operating. During the study period, some of these less efficient furnaces have been replaced, and by 2001 the current weighted average gas space heating appliance efficiency for all units in place is estimated at roughly 77 percent.
- Water heating efficiency gains contributed about 13 percent of the average residential load loss. Federal water heater standards took effect in 1990, setting the minimum gas water heater energy factor (EF) at 0.54, compared to the then-typical 0.5 EF. In addition, consumers are purchasing units with EF ratings higher than 0.54. The 1997 weighted average gas water heating EF is estimated to be slightly less than 0.53, compared to 0.55 in 2001.

Attachment KPSC DR 2-4(d) Sheet 3 of 4

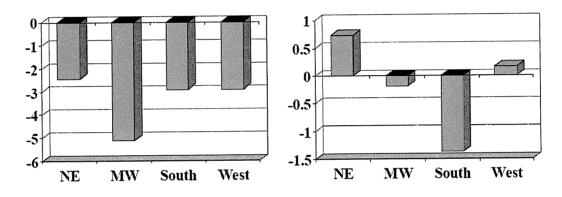
Chart 3

Regional Impact of Major Factors

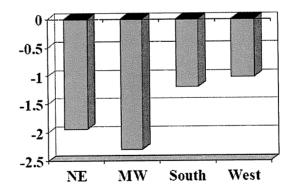
(Change in Mcf/year per residential customer, 1997 - 2001)

Appliance Efficiency

Appliance Saturation



Housing Characteristics



Note: Contributing factors are calculated independently and may not total to actual change

- Space heating market share loss accounted for about two percent of the overall decrease in gas use per residential customer. The proportion of homes with gas service increased since 1997, but the percentage of those gas homes with gas space heat declined slightly. Thus the relative heating base of gas utilities declined.
 - The market share loss in the Midwest and South was two to nine times as great as the national average. In the Northeast and West, however, there was an <u>increase</u> in space heating gas market share (see Chart 2).
- Baseload appliance market share loss accounted for about four percent of the residential load loss experienced from 1997-2001. Overall, the number of gas appliances per customer has declined. The market share loss for water heaters, cooking appliances, clothes dryers was relatively small, while gas light market share losses were somewhat higher.
- Improved home energy efficiency was responsible for about 29 percent of the decline. Newer homes with improved thermal envelope characteristics, as well as older homes adding insulation and storm windows/doors, reduced the typical amount of gas needed for space heating.
- **Demographic changes** contributed about six percent of the decline in typical residential gas use. Population shifts of gas customers to warmer climates since 1997 accounted for this decline when viewed from a national perspective. Previously quantified factors such as average number of people per residence and number of households setting back their thermostats at night did not change over the study period.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 5 Witness: Gary Smith

Data Request:

Refer to the Application, Volume 1, Tab 7, FR 10(1)(b)(8)a, First Revised Sheet Nos. 15 and 20. Under the paragraphs labeled Penalty for Unauthorized Overruns, the proposed language requires that the customer be responsible for any incremental charges assessed by the pipeline or supplier as opposed to the present language which states that the customer is responsible for any penalties assessed.

- a. Explain why the language needs to be modified.
- b. For clarification, will the incremental charges include penalties that the pipeline may charge?

Response:

- a. Unauthorized overruns for interruptible sales customers consists of usage during a period when the Company has issued a Curtailment Order suspending interruptible sales. The Company would issue such an Order when it believes delivery of interruptible sales would have adverse consequences on our firm sales customers. The primary purpose of the charge for unauthorized overrun volumes is to encourage customer compliance with the terms of their interruptible service. Another purpose of the charge is to ensure that non-compliant customers be accountable for any incremental costs associated with their overrun. On many occasions, market natural gas prices are at their highest during periods when a Curtailment Order is necessary, but pipeline penalties may or may not occur. This broadened language would enable the Company to charge the non-compliant interruptible sales customer for any additional gas supply costs above the unit gas cost recovered under the then-current Gas Cost Adjustment ("GCA"). Such charges would be credited through the GCA mechanism, so there would be no incremental revenue to the Company. This language change merely provides greater assurance to our firm sales customers that they will not incur any costs attributable to unauthorized interruptible sales volumes.
- b. Yes, incremental charges would include, but not be limited to, pipeline penalties.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 6 Witness: Gary Smith

Data Request:

Refer to the Application, Volume 1, Tab 7, FR 10(1)(b)(8)a.

- a. Concerning Sheet No. 22, explain why Atmos is proposing to define the normal billing cycle heating degree days ("NDD") as the National Oceanic and Atmospheric Administration's ("NOAA") 30-year normal for the period 1971-2000.
- b. Explain why NDD could not be defined as the 30-year normal based upon data published by NOAA for the period 1976-2005.
- c. Concerning Sheet No. 42, explain how the proposed "R&D Unit Charge" of \$0.0035 per 1,000 cubic feet equates with Atmos's level of research and development contribution as of December 31, 1998. Include all supporting calculations, workpapers, and assumptions. In addition, explain why the level as of December 31, 1998 is the reasonable level of support for the forecasted test period.
- d. Concerning Sheet No. 55, explain the reason(s) for the additional language concerning potential penalties under the "Curtailment" section of this tariff.
- e. Concerning Sheet No. 62, explain the reason(s) for the change in the "Imbalance Volumes" from penalty assessed to incremental charges assessed.
- f. Concerning Sheet No. 63, explain the reason(s) for the additional language concerning potential penalties under the "Curtailment" section of this tariff.
- g. Concerning Sheet No. 67.1, explain the purpose of the proposed "Transportation/Carriage Pooling Service" tariff and indicate why Atmos believes it needs to offer this service.

Response:

a. Atmos Energy believes that the WNA mechanism should adjust approved distribution commodity rates to compensate for weather variances from the same "normal" weather basis upon which those rates were set. The weather basis for determining weather normalizing volumes and the proposed level of distribution charges in this Case is the NOAA NDD report for the period of 1971-2000. As explained more fully in the Company's response to KPSC DR 2-6(b) below, NOAA only publishes its 30-year NDD report every ten years, concurrent with the beginning of a new decade and, thus, the NOAA report for the period of 1971-2000 is the most current available.

b. According to its website, NOAA only publishes its 30-year NDD report every ten years, concurrent with the beginning of a new decade. In producing their 30-year NDD reports, temperature data for each weather station undergoes a series of validations prior to summarizing daily and monthly averages. The most recent NOAA NDD publications are for the period of 1971-2000. The NOAA website states that their next report of NDDs, for the timeframe 1981-2010, "should be available to the public sometime in 2011."

The NOAA website does indicate that a "dynamic normals" tool is available which allows a user to select a more current timeframe than the latest published NDD report. Although we are uncertain whether the data would be suitable for rate design or WNA purposes, we attempted to view a report for the period from 1976-2005 subsequent to our receipt of this data request. The web-tool responded that the requested data was only available "through DEC 2001."

c. The stated R&D unit charge of \$0.0035 is unchanged from the current level reflected in the existing, approved tariff. Case No 1999-070 established the R&D rider, and outlined the circumstances leading to the proposal of maintaining the R&D funding level as of December 1998. At that time, a scheduled elimination of Gas Research Institute (GRI) funding through FERC-regulated pipelines was already known. FERC authorized funding through interstate pipelines were being phased out incrementally over time, and eliminated altogether in 2004. The Company's proposal in Case 99-070 was to maintain R&D collections from those customer segments which had been paying the GRI charges through the GCA recovery of interstate pipeline fees and remit funds collected to GRI. Thus, the Company's approved tariff reflected incremental increases in the unit charge to correspond with the phased elimination of the GRI charges through the interstate pipelines. One text change reflected in the tariff proposed in this Case is to eliminate references to those now-dated incremental steps and reflect only the current and continuing unit rate of \$0.0035 per Mcf which began on January 1. 2004. The incremental steps referenced in the tariff approved in Case 99-070 merely bridged that level of unit funding minus the continued FERC authorized interstate pipeline funding as it phased out.

Through research of the Case 1999-070 Case, we located a workpaper showing the level of contribution to GRI through interstate pipelines, and calculating the final incremental distribution charge increase for January 1, 2004. The workpaper is attached as Attachment KPSC DR 2-6(c).

- d. The additional language clarifies that customers failing to comply with Company Curtailment Orders are subject to bearing incremental costs related to any overrun sales taken during the period the Order is in effect. For T-3 service, the Curtailment Order suspends delivery of overrun sales to these transportationonly accounts. Daily usage in excess of the customers confirmed daily nominated supply would be in violation of the Curtailment Order and thus subject to bearing associated incremental costs. The existing imbalance language falls within a section addressing monthly imbalances; this additional language clarifies that imbalance sales during a curtailment period may not be erased by positive imbalances for the remainder of the month.
- e. Unauthorized overruns for T-3 customers is usage above their confirmed daily nominated supply during a period when the Company has issued a Curtailment Order suspending overrun sales. The Company would issue such an Order when it believes delivery of overrun sales would have adverse consequences on our firm sales customers. The primary purpose of the charge for unauthorized overrun volumes is to encourage customer compliance with the terms of their

transportation-only service. Another purpose of the charge is to ensure that noncompliant customers be accountable for any incremental costs associated with their overrun. On many occasions, market natural gas prices are at their highest during periods when a Curtailment Order is necessary; but pipeline penalties may or may not occur. This broadened language would enable the Company to charge the non-compliant carriage service customer for any additional gas supply costs above the unit gas cost recovered under the then-current Gas Cost Adjustment ("GCA"). Such charges would be credited through the GCA mechanism, so there would be no incremental revenue to the Company. This language change merely provides greater assurance to our firm sales customers that they will not incur any costs attributable to unauthorized carriage overrun sales volumes.

- f. The additional language clarifies that customers failing to comply with Company Curtailment Orders are subject to bearing incremental costs related to any overrun sales taken during the period the Order is in effect. For T-4 service, the Curtailment Order suspends delivery of overrun sales to these transportationonly accounts. Daily usage in excess of the customers confirmed daily nominated supply would be in violation of the Curtailment Order and thus subject to bearing associated incremental costs. The existing imbalance language falls within a section addressing monthly imbalances; this additional language clarifies that imbalance sales during a curtailment period may not be erased by positive imbalances for the remainder of the month.
- g. The primary purpose of the proposed Transportation/Carriage Pooling Service is to permit suppliers to our transportation customers to aggregate their customers for monthly supply balancing purposes, subject to the conditions specified in the tariff.

This new service offering does not alter the individual customer qualification requirements for transportation service, does not provide any new revenue stream to the Company and is offered only as a voluntary option for our customers and for suppliers wishing to perform as a Pool Manager.

Currently, all transportation imbalances are calculated at the individual customer level, with some customers having positive imbalances and other having negative imbalances. This option would calculate the imbalance at a Pool level, with the Pool Manager assuming responsibility for the net Pool imbalances. Conditions specified in the tariff limit the scope of the Pools to ensure no operational impact on our sales customers relating to any imbalances.

Atmos Energy proposes the Transportation/Carriage Pooling Service merely as a service enhancement option for our significant transportation market. As acclaimed in the 2002 gas procurement audit conducted for the Commission by Liberty Consulting Group, Atmos Energy "operates a very successful transportation program in very competitive circumstances by offering well-designed transportation services at competitive prices." We believe this tariff is a logical extension toward continued customer service improvements in this competitive marketplace.

Attachment KPSC DR 2-6 (c) (Workpaper from KPSC Case No. 1999-070)

Western Kentucky Gas Company, A Division of Atmos Energy Corporation Calculation of GRI R&D Unit Charge

	Tot Contrit Dec. 31 Rate po Daily I	oution , 1998 er Mcf	Gas C Contril Jan. 1, Rate p Daily	bution 2004 er Mcf	Distribution Charge Contribution Jan. 1, 2004 Rate per Mcf Daily Basis			
Texas Gas Transmission								
Fully Discounted	\$	-	\$	-	\$	-		
Trunkline Gas Co.								
Fully Discounted	\$	-	\$	-	\$	-		
Tennessee Gas								
Small Customer Surcharge	\$	0.0200	\$	-	\$	0.0200		
Midwestern Gas Transmission								
Commodity	\$	0.0088	\$	0.0075	\$	0.0013		
High Demand Rate	\$	0.0085	\$	0.0076	\$	0.0009		
Low Demand Rate	\$	0.0053	\$	0.0047	\$	0.0006		
ANR Pipeline								
Commodity	\$	0.0088	\$	0.0075	\$	0.0013		
High Demand Rate	\$	0.0085	\$	0.0076	\$	0.0009		

	Annual	GRI		GRI
	<u>Usage (Mcf)</u>	<u>Charge</u>		<u>Dollars</u>
Texas Gas	20,000,000	\$ -	\$	-
Trunkline	1,400,000	\$ -	\$	-
Tennessee Gas	4,600,000	\$ 0.0200	<u>\$</u>	92,000.00
	26,000,000		\$	92,000.00
GRI R&D Unit Charge			\$	0.0035

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 7 Witness: John Paris

Data Request:

Refer to the Application, Volume 2, Tab 1, the Direct Testimony of John A. Paris ("Paris Testimony"). On pages 6 and 7 is a discussion of the Customer Rate Stabilization ("CRS") mechanism.

- a. Given that the proposed CRS provides for a backward looking review of past financial performance as well as a review of the projected revenue requirement for the next 12 months, explain in detail why this proposal does not shift the majority of Atmos's risks to its ratepayers.
- b. Explain in detail how Atmos has determined that the proposed annual reviews would be "at a very low cost and provide for customer rate protection." Include any studies or analyses Atmos conducted that support these conclusions.
- c. Explain in detail what controls are contained in the proposed CRS mechanism that will encourage Atmos to contain costs.
- d. Refer to page 7, lines 23 through 26. Does Atmos contend that the rate of return authorized in 2007 will continue to be the fair, just, and reasonable rate of return in 2012? Explain the response.

Response:

- While the pages referenced in the question do not mention 'risk', the a. question implies that 'risk' refers to the ultimate recovery of costs and the timing of that recovery. Prudent costs are recoverable from ratepayers and the proposed CRS mechanism does not alter that fact. The CRS is designed to ensure that only costs which have been approved for recovery by the Commission (and thus determined to be prudent) are, in fact, recovered. In a perfect world revenues recovered during a given period would always match the costs (including return) incurred during that same period. In reality, however, some differences in periodic revenues and costs occur. Such differences then lead to periodic under or over recovery of costs. The proposed CRS would ensure that revenues collected from ratepayers for 12 months match 12 months of costs authorized for recovery by the Commission. No more, no less. If anything, the proposed mechanism would equally benefit both ratepayer and Company by reducing the periodic 'risk' of under or over recovery of costs.
- b. The Company has not conducted any studies in this regard. Please refer also to the Company's response to the KPSC DR 2-56(h).
- c. Please refer to the Company's response to the KPSC DR 2-60(f).

d. By law, any authorized rate of return continues to be fair, just and reasonable until a new rate of return is approved by the Commission. The latest stated rate of return for the Company was set in 1990, with subsequent rate cases settled with interveners, and approved by the Commission, without designating a specific rate of return.

From a historical perspective, the Company filed rate cases about every 4-6 years. Thus, it would not be unusual to operate under a rate of return set 5 years previous. The Company believes five years is an appropriate interval for operating under an established, reasonable rate of return.

Finally, the proposed CRS mechanism does not diminish in any way the authority of the Commission to review the reasonableness of the rate of return set for this purpose. And, nothing in the proposed CRS mechanism prohibits the Company from filing a traditional rate case in order to have its rate of return reconsidered.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 8 Witness: John Paris / James Cagle

Data Request:

Refer to the Paris Testimony, page 11. Mr. Paris states that the current Kentucky share of Atmos's Shared Services costs is approximately 5 percent. What would have been the Kentucky share of the Shared Services costs had the Kentucky and Mid-States Divisions not been combined? Include all workpapers, calculations, and assumptions used to determine the response.

Response:

On a percentage basis, the allocations are close. As a stand-alone division, and based upon the composite allocation methodology, Kentucky would receive approximately 5.2% of Shared Services – General Office costs. As part of the combined Kentucky/Mid-States division, Kentucky receive approximately 5.6% of the Shared Services – General Office costs under the methodology. Kentucky receives 5.6% of Shared Services – Customer Support costs regardless of the combination because the allocation of such costs is based upon the number of customers. While the percentage to Kentucky of Shared Services – General Office costs is slightly higher when combined with Mid-States, this simple comparison does not account for cost synergies of the combination as discussed on page 7 of the direct testimony of Mr. Greg Waller.

Please also see attachment JCC-3 to the direct testimony of Mr. James Cagle. The Shared Services – General Office allocation to Kentucky before the combination is shown on page 1. The Shared Services – General Office allocation to Kentucky after the combination is calculated as follows:

Mid-States	9.9%	JCC-3 Page 1
Kentucky	5.2%	JCC-3 Page 1
Sum	15.1%	
Times	<u>36.78%</u>	JCC-3 Page 3
Factor	5.55%	

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 9 Witness: Tom Petersen

Data Request:

Refer to the Application, Volume 2, Tab 2, the Direct Testimony of Thomas H. Petersen ("Petersen Testimony"), pages 4 and 5.

- a. Define the term "unusual retirements" as it is used in the testimony.
- b. Explain why Atmos did not record the retirement of certain shared assets in the year the retirement occurred, rather than recording the retirement in November 2006.

Response:

- a. In Mr. Petersen's testimony "unusual retirements" refers to retirements in recorded in a period that relate to activity in prior periods.
- b. The retirements were not recorded in the year they occurred due to an inadvertent administrative omission.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 10 Witness: Tom Petersen

Data Request:

Refer to the Petersen Testimony, page 5. Explain in detail how Mr. Petersen concluded that the September 2006 construction work in progress ("CWIP") balances were reasonable estimates of future CWIP through the forecasted test year. Include all workpapers, calculations, and assumptions that support the conclusion.

Response:

Since most of the company's capital projects are relatively short-term projects, if project paperwork is completed timely the amount of investment closed to plant in service in a year should roughly equal the amount of capital spending in the year. Therefore, Mr. Petersen decided that it was reasonable to assume for purposes of projecting additions to plant in service that additions to plant in service would equal capital spending in a period. A result of this assumption is that the projected level of CWIP will equal the level of CWIP at the start of the projections. Additionally, capital project paperwork was relatively current as of September 2006.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 11 Witness: Tom Petersen

Data Request:

1

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Refer to the Petersen Testimony, page 6.

- a. Provide copies of the analyses or studies reviewed by Mr. Petersen that supports Atmos's assumption that there will not be a significant change in the materials and supplies account in the test year. If analyses or studies were not used to determine this assumption, explain in detail how Mr. Petersen reached this conclusion.
- b. Provide copies of the analyses or studies reviewed by Mr. Petersen that support Atmos's assumption that the amounts for prepayments are not expected to change in the test year. If analyses or studies were not used to determine this assumption, explain in detail how Mr. Petersen reached this conclusion.
- c. Concerning the PSC Assessment:
 - (1) Was Mr. Petersen aware that in previous natural gas and electric general rate cases the Commission has not included the PSC Assessment in the determination of the utility's rate base? Explain the response.
 - (2) Provide the PSC Assessment amounts included in Atmos's base period and forecasted period rate bases. Include all workpapers, calculations, and assumptions used to determine the amounts.
 - (3) Explain why the Commission should include the PSC Assessment in Atmos's rate base determination.
- d. Provide copies of the analyses or studies reviewed by Mr. Petersen that support Atmos's assumption that the amount of customer advances will not significantly change during the test year.
- e. Provide the account balances for each of the 12-months ending September 30, 2000 through 2006 for materials and supplies, prepayments, and customer advances.

Response:

- a. Mr. Petersen knew of no expected changes in the level of material and supplies. Therefore, other than general inflation, he had no basis for assuming that the level of investment in materials and supplies would change in the test year. He concluded that maintaining the historic level of materials and supplies was a conservative projection.
- b. Mr. Petersen knew of no expected changes in the level of prepayments and supplies. Therefore, other than general inflation, he had no basis for assuming that the level of investment in prepayments would change in

the test year. He concluded that maintaining the historic level of prepayments was a conservative projection.

- c. Prepayments related to the PSC assessment were included in rate base in prior Atmos rate case filings in Kentucky. And a review of the company's three general rate cases dating back to 1990 did not show a disallowance of this inclusion. The company has not reviewed any other utilities cases in Kentucky related to this matter. All prepayments including prepayments of PSC assessments represent investment required to provide utility service. Therefore, the company believes that prepayments of PSC assessments are a necessary component of rate base. The average balance for prepayments of PSC assessments are \$205,854 in the base period and \$231,715 in the forecasted period. Work paper support is provided in the response to AG first request item 20.
- d. Mr. Petersen knew of no expected changes in the level of customer advances. Therefore, other than general inflation, he had no basis for assuming that the level of customer advances would change in the test year. He concluded that maintaining the historic level of customer advances was a conservative projection.
- e. Please see the attached file.

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Atmos Energy Corporation Case No. 2006-00464 KPSC 2nd Data Request - Item 11e

September 30 Balances

Customer	Advances		Account 252	(5,324,550)		(052.802.6)		(4,806,253)		(4,503.974)		(4.095.128)		(3,701,914)		(3 537,105)		
			Total	490 505		1 467 958		882 840	0.0100	835 500	110,000	864 961		594 416		707 585	000,141	
int 165	155)))	Allocated					718 670	110,010	726 110	21,007	560 57 1	1 20,000	100 0VV	113,007	260 004	100,000	
Prepayments - Account 165	Allocation SSU		Percent /					700V C1	14.40 /0	10 EC0/	0/.00.01	10.170/	10.17 /0	7020 V	4.01 /0	E 000/	0.0970	
Prepayme	1100	000	Total		1		1		1, 332,211		C/R'C277		ozc'nna'c		D, YJY, J IZ		1,209,035	
	1/2.	Ş	direct		490,505	010 10.	1,467,958		634,211		599,403		295,388		305.172		357,591	
va	3		Total		393,142				32,669		-		29.003		62 734		8,627	
ole & Sunnli	alo a cupul	Account	163	202	7.353		(31 470)		3 595	555	(16 331)	1.00.01	27 040	0.0.1	57 171		5,564 3,064	
	Materials a supprise	Account	154	t 101	385 788		342 021		20 074	10.07	1 963	000'1	1 963	000-	R RGA	+00'n	5,564	•
				real	0000	7007	2001	1007	CUUC	7007	2002	cuuz		4004		CUU2	2006	

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Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 13 Witness: Greg Waller

Data Request:

Refer to the Waller Testimony, pages 13 and 14.

- a. Does the forecasted test period include O&M expenses allocated to the Kentucky/Mid-States Division by the Shared Services unit? Explain the response.
- b. Explain the statement in footnote 3 that the base period O&M expense does not include O&M allocated to the Kentucky division by the Shared Services unit.

Response:

- a. The \$15,875,934 discussed on page 13 represents O&M for Kentucky (direct) and the Kentucky Mid-States General Office (allocated portion). It does not include Shared Services. The O&M allocated to Kentucky by Shared Services for the forecasted test period is \$5,133,922 as seen on page 17 line 2.
- b. Footnote 3 references the O&M for Kentucky (direct) and the Kentucky Mid-States General Office (allocated portion). The footnote continues ("wraps") from page 14 to page 15. As noted in the continuation of the footnote, SSU O&M is discussed later in testimony (on pages 16-17).

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 14 Witness: Greg Waller

Data Request:

Refer to the Waller Testimony, page 18.

- Provide a schedule showing the initial property tax assessment, the a. property tax based on the initial assessment, the final property tax assessment, and the property tax based on the final assessment for the most recent 6 years available.
- If it has been Atmos's experience that the final property tax assessment b. has been different from the initial assessment, explain why this difference should not be reflected in the projected property tax expense included in the forecasted test period.

Tax Year	Initial Value	Estimated Taxes based off Initial Value	Settled Value	Taxes Paid by Tax Year
2001	227,433,054	2,449,066	160,000,000	1,719,858
2002	237,501,793	2,593,496	171,000,000	1,867,258
2003	207,080,070	2,285,104	175,891,940	1,939,934
2004	220,204,325	2,474,467	197,196,586	2,215,925
2005	253,040,918	2,810,668	214,981,600	2,387,921
2006	336,242,098	4,011,420		

Response:

a.

b. Prior to 2006, Atmos worked with the KDR Office of Property Valuation to arrive at a final value. Traditionally, this was accomplished before the 45 day appeal period through informal negotiations. This year the Company and Office of Property Valuation were not able to agree on final values through the informal process. Atmos formally appealed its 2006 assessment to the Office of Legal Services – Division of Protest Resolution.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 15 Witness: Robert R. Cook Jr.

Data Request:

Refer to the Application, Volume 2, Tab 4, the Direct Testimony of Robert R. Cook, Jr. ("Cook Testimony"), page 6. Provide a schedule showing the capital expenditures for the Kentucky division, the Kentucky division's general office, and the Shared Services unit for the most recent 5 fiscal years. Separate the capital expenditures into growth and non-growth expenditures, as well as listing each capital project included in the expenditures.

Response:

See attachment KPSC DR2-15ATT for FY2002-2006 growth and non-growth expenditures by Company budget categories. Please see KPSC DR 1-12a ATT for a listing of each capital project.

KPSC DR 2-15							Fig. 1 Voor 2006
			Fiscal Year 2002	Fiscal Year 2002 Fiscal Year 2003 Fiscal Year 2004 Fiscal Year 2005	Fiscal Year 2004	Fiscal Year 2005	FISCAI TEAL 2000
GROWTH	Corporate Budget Category	Data	Grand Total	Grand Total	Grand Total	Grand Total	Grand Total
	Growth	CY Actual	6,705,442	6,757,316	6,898,270	6,063,334	5,557,160
		and a second					
	Equipment	CY Actual	417,902	792,905	393,968	451,702	259,629
LI MON-GROWING	Improvements	CY Actual	872,464	377,577	(18,649)	65,203	
	Information Technology	CY Actual	531.731	588,651	673,024	125,432	97,101
	Distrad	CV Actual	(35.386)	(178,703)	(626,628)	210,982	413,669
	Overneau Dublic Improvements	CY Actual	0	61,265	644,537	144,496	471,015
	Characterized	CV Actual	0	0	623,180	101,982	280,719
	Surtom Improvements		0	260,021	1,596,973	969,173	2,141,048
	System Introvenients	CV Actual	10.346.954	10,018,909	11,509,550	9,604,661	7,811,359
		CV Actual	(117.375)	(154,643)	(60,465)	(8.318)	(1,525)
	VEIIIGES		18.721.732	18,523,298	21,633,760	17,728,647	17,030,174
PA Subtotal CT Actual	anda 8 Eorfoiturae)		(533,606)	(310,071)	(731,613)	(202,977)	(385,167)
Uutside PA Subtotal UT Actual (Acctuals & Futerutes)	I UAIS & L'UTEILUTES		18 188 126	18.213.227	20,902,147	17,525,670	16,645,007
Kentucky CY Actual	na - Analas - Analas - Analas		15.326.768	18,702,001	18,550,753	14,571,690	14,185,245
Kentucky CY Budget Kontricky VTD Variance			2,861,358	(488,774)	2,351,394	2,953,980	2,459,762

KY 2002 J6 Capital Actuals (Budget Categories - Growth/Non-growth) KPSC DR2-15ATT R. Cook Note: FY 2002 all capital expenditures for improvements include public and system improvements

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 16 Witness: Robert R. Cook Jr.

Data Request:

Refer to the Cook Testimony, pages 7 and 8.

- a. Provide the monthly and quarterly capital project variance reports for the Kentucky division, the Kentucky division's general office, and the Shared Services unit for calendar years 2005 and 2006.
- b. For each capital project undertaken in or assigned to Kentucky operations during fiscal years 2004 through 2006, prepare a schedule that categorizes the project as either "Blanket Functionals" or "Specific Projects." Include the original appropriation for the project as well as indicate if supplemental funding was requested and approved. Also provide copies of the applicable project variance reports for each project.

Response:

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- A. See attached KPSCDR2-16a 2005 ATT and DR2 Item 18a for FY 2006 monthly variance reports.
- B. See attached KPSCDR2-16b ATT for blanket functionals or specific projects.

KPSC DR2-16A 2005 ATT Monthly Vanance Report R Cook

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Budget (175,150.92) 28,025.83 21,103.91 29,103.91 CY Actual (176,150.20) (157,453.4) (23,745.34) (23,745.34) (21,719.34) CY Actual (176,150.20) (157,155.34) (23,745.34) (23,745.34) (200 0.00 CY Actual (157,155.34) (23,545.34) (23,745.34) (23,745.34) (23,745.34) (200 0.00 CY Actual (157,55.34) (23,545.53) (23,545.53) (23,747.14) (14,281.32) (24,746.31) (12,915.34) (200 0.00 0.00 0.00 CY Actual (19,994.84,07) (1,673.34) (10,3347.14) (14,281.32) (24,746.31) (23,239.48) (24,780.53) (23,759.53) (23,759.53) (23,759.53) (23,759.53) (23,759.53) (23,759.74) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75) (24,750.75)	31,835.45 CP. 22,8,15		(6.048.66)	41,330.51	33,748.95	51,930.21	23,101.2U	20,200,001	(79 909 7)	59.027.68
CY Actural CY Actural C1362.631 C1362.631 C1362.631 C130.0 C000 C000 <thc101< th=""></thc101<>	28,002.83		1.021.70	20,172.32	18,370.39	47,545.60	(00.008,00)	572 A2	68 073 32	101.982.47
CY Actual (5/45,43) 24,191.36 0.00 </td <td>(3,832,62) 27,000.34</td> <td></td> <td></td> <td>9,150.28</td> <td>676.52</td> <td>(18,608.14)</td> <td>46.125,62</td> <td>000</td> <td>0.00</td> <td>1.526.81</td>	(3,832,62) 27,000.34			9,150.28	676.52	(18,608.14)	46.125,62	000	0.00	1.526.81
Budget 1,526.81 0.00	24,791.35		0.00	0.00	0.00	0.00	0.00	100.0	IER 073 37)	(100.455.66)
CY Active Bud Br(W) 7.27.255 (24,791,50) (200	0.00		000	(9.150.28)	(676.52)	18,608.14	(23,321.54)	104-0101	120.027.700	0E0 173 17
CY Actual 149,28,B/T 65,56,65 96,824.4 74,44,871,80 130,966.50 Budget CY Actual 39,646.00 (1873,55) 7,061.72 103,347.14 130,966.50 CY Actives and Br(W) (109,964.80) (1,873,55) 7,061.72 103,347.14 130,966.50 Budget 653,475.14 719,611.63 7,961.53 7,061.72 203,561.63 203,567.63 CY Actual 633,477.14 719,961.63 7,105.63 1,961.66 647,860.23 354,256.75 233,567.75 233,567.75 233,567.75 234,567.75 235,456.75 235,426.75 235,426.75 235,426.75 235,426.75 235,426.75 235,426.75 235,426.75 235,426.75 235,426.75 235,426.75 235,426.75 110,426.66 647,420.76 67,440.07	(24,791.36) 0.00	SC 11 28	18 694 27	22, 193.43	3,447.53	70,702.13	92,094.00	CU.CE2,CE1	00'511'107	882 793.99
Budget 39,864.07 61,673,14 103,847.14 103,847.14 103,847.14 103,847.14 103,847.14 103,847.14 103,847.14 103,847.14 103,847.14 103,847.14 103,847.14 103,847.14 103,847.14 103,847.14 103,847.10 116,685.18 100,895.16 103,847.16 103,847.16 116,685.18 100,897.66.31 103,847.10 116,682.18 103,847.16 116,682.18 103,847.16 116,682.18 103,847.16 136,853.16 103,847.16 136,853.16 103,847.16 136,853.23 647,860.23 1103,847.16 136,853.23 647,860.23 1103,847.16 136,853.23 647,860.23 136,853.26 1113,200.01 136,420.23 136,420.26 1113,200.26 264,280.23 136,420.26 1113,200.26 11182,775.16 1113,200.26 11182,775.16 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26 1113,200.26	63,546.69 96,828.42		EA 949 45	73,146.92	75,340.88	59,131.34	56,789.86	C/ QZA'CE	41-020'00	/RE 379 1RV
CY Act vs Bud B(W) (109.964.80) (1.873.55) 1.060.088.51 201.222.39 647.857.10 203.521.45 203.521.55 203.521.55 203.521.55 203.521.55 203.521.55 203.521.55 1.135.521.55 1.1	61,673.14 103,847.14		AG 255 18	50.953.49	71,893.35	(11,570.79)	(35,304.14)	(159,366.28)	1/1/1/400.24/	0.00,010,10) 0.604.660.46
CY Actual 693,078,77 978,527,81 7,100,030,537 677,527,63 7,393,637 677,527,63 7,395,233 7,375,236 677,527,53 537,256 7,375,236 677,527,53 537,256 7,375,236 537,256 7,375,236 357,256 357,356 357,256 357,356 357,256 357,346 357,356 357,356 <td>(1,873.55) /,018.72</td> <td></td> <td>542,150,23</td> <td>941,765.96</td> <td>525,835.56</td> <td>886,753.80</td> <td>940,653.56</td> <td>47'1 CO'7CO'1</td> <td>853 255 30</td> <td>8 589 834 94</td>	(1,873.55) /,018.72		542,150,23	941,765.96	525,835.56	886,753.80	940,653.56	47'1 CO'7CO'1	853 255 30	8 589 834 94
Budget E39,457.61 719,881.68 719,381.68 719,381.68 719,381.68 719,381.68 719,381.68 719,381.68 719,381.68 719,381.68 719,381.68 719,381.68 719,381.68 719,381.68 719,381.68 719,381.68 719,381.68 717,785 717,712,89 717,712,89 717,712,89 717,712,89 713,712,48 713,612,65 71 713,612,65 71 713,612,65 71 713,612,65 71 713,612,65 71 713,612,65 71 713,612,65 71 713,612,65 71 713,612,65 71 713,612,65 71 713,612,65 71 713,612,65 71 713,613,65 71 744,07 91 71 741 713,613,65 713,613,65 71 744,407 91 744,407 91 744,407 91 744,407 91 744,407 91 744,407 91 744,407 91 744,407 91 744,407 91 744,407 91 744,407 91 744,407 91 74,44,07 91	976,327.81 1,060,888.91		750.006.23	637,008.68	727,020.36	644,130.19	800,286.65	40.000,101	(A78 561 53)	(1 014 825.52)
CY Act vs Bud B(W) (53.671 fb) (236.347 fs) (34.60.0) 0.00 Budget CY Act vs Bud get 9,460.00 0.00 886.278 55 1,170.61 Budget CY Act vs Bud get 1,170.61 9,460.00 9,000 0.00 886.278 55 1,127.291.55 1,127.291.55 1,127.291.55 1,122.775.51 1,122.775.51 1,122.775.51 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 296.465.205 1,130.005.50 297.445.205 1,130.005.50 297.445.205 1,130.005.50 297.445.205 1,130.005.50 297.445.205 1,130.005.50 297.446.20 297.444.07 <td< td=""><td>719,981.68 747,952.08</td><td></td><td>207,856.00</td><td>(304,757.28)</td><td>201,184.80</td><td>(242,623.61)</td><td>(140,366.91)</td><td>(230,331.10)</td><td>2 672.17</td><td>(8,318.90)</td></td<>	719,981.68 747,952.08		207,856.00	(304,757.28)	201,184.80	(242,623.61)	(140,366.91)	(230,331.10)	2 672.17	(8,318.90)
CY Actual 1,770.61 (3,100,10) 0.00 886,278.55 1. Budget (1,770.61) (1,770.61) 9,460.00 0.00 886,278.55 1. beal CY Actual (1,770.61) (1,770.61) (1,770.61) 9,460.00 0.00 886,278.55 1. beal CY Actual (1,770.61) (1,770.61) (1,770.61) 256,586.55 1.13,269.156 1.885,278.55 1. beal CY Actual (1,770.61) (673,20.66) (417,417.48) 256,586.55 1.13,060.50 296,495.20 1. 1. beal CY Actual (714,688.03) (70,399.09) (46,090.06) (27,389.73) 67,444.07 (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,753.66) (7,753.66) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07) (7,444.07)	(256,346.13) (312,339.03)		(3,112.72)					(00.001)		
Budget (1,770.61) 9,480.00 0.00 0.00 0.00 bell CY Actual CY Actual 1,591,865.62 1,658,005.93 1,094,631.64 1,182,731.55 1,1 bell CY Actual 1,591,865.62 1,563,005.93 1,094,631.64 1,365,591.55 1,182,775.55 1,1 bell Budget (678,120.66) (417,417.48) 7,345,596.55 1,136,506.50 2,945,000 295,495.00 circl vs Bud BIWN (678,120.66) (417,417.48) 250,636.65 1,13,060.50 295,495.20 1,345,596.11 1,365,597.13 1,345,596.11 1,365,597.13 1,344,07 0,744.07 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>000</td> <td>168.96</td> <td>(2.672.17)</td> <td>8,318.90</td>							000	168.96	(2.672.17)	8,318.90
Interface CY Act vs Bud B/(W) 1, 591, 555, 75 1, 686, 275, 956, 45 1, 112, 231, 55 1, 112, 231, 55 1, 112, 215, 15 1, 112, 215, 15 1, 112, 215, 15 1, 112, 215, 15 1, 112, 215, 15 1, 112, 215, 15 1, 112, 215, 15 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 55 1, 113, 050, 50 1, 113, 050, 100 1, 113, 050, 100 1, 11		0.00	3,112.72	0.00	00 775 000	1 007 356 30	1 615 033 51	1.517.531.69	2,775,249.50	17,728,647.97
Image: Instruction of the state of	1 668 005 03 1 094 631 64		1,007,327.74	1,570,200.52	1 202 102 1	00'000' 100' 1	1 263 297 23	1.281.411.23	1,299,057.26	14,571,690.20
vs Bud B(W) (571,170,65) (417,417,46) 250,556,55 113,080,50 296,495,20 Budget Evroperty (417,417,46) 250,556,55 113,080,50 296,495,20 Budget CY Activali (417,417,46) (46,090,06) (27,389,73) 67,444,07 CY Actual Budget 0.00 (30,399,09) (46,090,06) (27,389,73) 67,444,07 CY Actual Budget 0.00 (30,393,09) (46,090,06) (27,389,73) 67,444,07 CY Actual Budget 0.00 (30,392,06) (21,62,00) (27,389,73) 67,444,07 CY Actual Budget 0.00 (37,360,00) (37,360,00) 0.00 citures CY Actual 29,032,06 (21,62,00) 29,954,00) 0.00 budget 20,04,00 (37,360,00) (14,14,24,21,28) 16,744,012 0.00 citures CY Actus Bud B(W) (16,176,09) (16,126,06) 9,972,212 10,00 further CY Actus Bud B(W) 167,7417,810,39 141,02,712,61 14	1 240 588 45 1 345 268 29	_	1,258,737.80	1,116,859.49	1,223,330.30	(846 A5A 57)	(351 736.28)	(236,120.46)	(1,476,192.24)	(3,156,957.77)
udget (71,14,688,03) (30,399,09) (46,090,06) (27,389,73) 67,444,07 (71,44,681,03) (30,393,09) (46,090,06) (27,389,73) 67,444,07 (71,44,681,03) (30,393,09) (46,090,06) (27,389,73) 67,444,07 (71,44,681,03) (30,303,09) (37,360,00) (37,360,00) (37,360,00) (37,360,00) (30,00) (30,00) (30,00) (30,00) (30,00) (30,00) (30,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,360,00) (31,346,00)	(A17 A17 A8) 250.636.65		251,410.06	(453,341.03)	+c.1 20,000					0.00
CY Act vs CY Act vs CY Act vs CY Act vs EX			133 000 1011	203 403 25	(128 365 09)	(82,249.75)	39,248.66	(294,047.40)	332,428.35	(184,711.47)
CY Actual CY Actual 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01	(30,399.09) (46,090.06)			07'00L'007						
Budget Dudget 0.00 0.00 0.10 0.00										0.00
CY Aduati CY Aduati Budget CY Aduat CY Aduat CY Aduat CY Aduat CY Aduat Bud BI(W) 1677,571 Bud BI(W) 1677,572 100 1665,65,97 1665,697 1665,697 1665,697 1665,697 1665,697 1665,697 1665,697 1665,697 1665,697 1665,697 1665,693 1665,697 1665,693 1665									(269,710.67)	(387,688.73)
Budget Budget CY Act vs Bud B/(W) 29 0.22 06 21.622.00 29.964.00 37.369.00 0.00 CY Act vs Bud B/(W) 65.655.97) 6.777.09) (16.126.06) 9.970.27 6.7443.88 1 Bud B/(W) 1677.571.591 1666.773.09 11.01.777 01.126.21.29 818.354.88 1 1677.561.56 1.1406.773.570 1.142.421.29 818.354.88 1 173.745.561.57 1.125.565.57 1.125.757.70 1.125.451.51 1 173.745.561.59 1.126.452.61 1.182.775.16 1	(21,622.00) (29,964.00)	37,360.00)							210 210 67	UUUU 287 688 73
CY 34: Vs Bud B/(W) 29,032.06 21,622.00 22,964,00 37,380,00 40,407 Bud B/(W) (65,755) (6,777.09) (16,175.00) (14,127.70) (14,127.70) Bud B/(W) (67,77.51.59) (1,66,578.07) (1,102,777.07) (1,102,777.07) (1,102,777.07) Bud B/(W) (67,77.61.59) (1,102,777.07) (1,102,777.07) (1,102,777.15) (1,82,775.15)	0.00		000	0.00	0.00	0.00		0.00	10.011/607	202 077 26
Bud BI(W) (65,555.97) (6,777.09) (16,526.05) 19,002,102,01 (16,526.05) (14,527.02) (18,624.88 1) (147,272,12) (18,624.88 1) (147,272,12) (18,6274.85 1) (142,2715,15) (18,775,15) (18,775,15) (18,775,15) (18,776,15) (18,7776,15) (17,7776,15) (18,77776,15) (18,77776,15) (18,77776,15) (18,77776,15) (18,77776,15) (18,77777776,15) (18,777777777777777777777777777777777777	21,622.00 29,964.00	E7 4/	1104 00	203.403.25	(128,365.09)	(82,249.75)		(294,047.40)	012,133.UZ	17 575 670 71
1,617,521,59 1,666,783.02 1,110,757.70 1,142,421,26 010,000,00 013,744,96 1,240,588,45 1,345,268,29 1,265,452.05 1,182,775,15	(8,777.09) (16,126.06)		Ľ	1.366.797.27	991,140.11	2,079,606.05		60.876,118,1	1 200 067 26	14 571 590 20
913 744 96 1 240 588.45 1,345,268.29 1,265,452.05 1,182,173,13	1,666,783.02 1,110,757.70			1 116 859 49	1.223,596.56	1,180,901.73		1,281,411.23	NCC 620 7207	17 053 080 51V
	1,240,588.45 1,345,268.29	_		(249.937.78)		(898,704.32)	(312,487.62)	(530, 167.85)	(0/4'nno.	10000000000
234,510.59 123,030.77	(426,194.57) 234,510.59									

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Eurortional and Specific Projects Ň

Witness Responsible: R. Cook

Morknaner Reference No(s).: KPSCDR-2 Item 16b ATT F	Functional and Specific Projects				_			
		Euclional or	Actual Cost in Referenced	Original P&N	Variance In		Total P&N Cost	Variance in
Fiscal		Specific Project	Fiscal Year	Estimate	Dollars	Project Cost	Estimate	Dollars
Project No.	Project Title / Description	Specific	(40,769.96)	6,658.00	(45,742.22)	139,004.22/	138 525 00	446.64
WKG.DAN.SHV.LAW.SYCOMORE EST.	1500' UF 2' UN D'UGLAO VINNEL	Specific	207.26	1.00.022,851	500	0	(500.00)	500
wkg.tech svc.maint-meters	METER 1531 & A00001 Datise sociat	Specific	01.25	31 205 00	41 437 88	72,642.88	31,205.00	41,437.88
40.10397 WKG.TECH SVC. Kerox	HMY 150 RELOCATION	Specific	000	858.00	47.12	905.12	858.00	47.12
WKG.DAN.PERKTVILLE ND	225' - 2" P.E Main	Specific	6.926.93	5,596.00	44162.67	49758.67	5,596.00	44162.67
WNG.FAU.COMMING # 10 POINT		Shecific	(19.299.00)	2,631.00	-4253.41	-1622.41	2,631.00	4203.41
ELOCATION	RELOCATE 418' 4" PIPE AND INSTALL 240' OF 2" PE	Snecific	832.24	Not available		3562.75	Not available	124 176 831
wkg.mad.hen.Dewey	610' 2" PE main	Specific	(909.01)	30,375.00	(31,176.83)	(801.83)	31,5/5.UU	74562 48
WKG.BGR.WILLIAMS CORP UPRATE	JENT - WILLIAMS CUR	Specific	78,955.72	31,208.48	74562.48	102/07/201	22 159 UD	3271.97
	state highway relocation	Specific	9.79	22,159.00	3271.97	25430.97	67 653 00	-34496.75
Industrial Meters	Industrial Meters	Specific	(116,184.33)	67,653.00	-34495./5	150300 40	124 890 00	25508.42
WKG.DAN.C-VILLE. BY-PASS	STATE HWY KELUCATION	Specific	0.02	124,890.00	74.00002	11001 77	Not available	-
T.WKG Tech Serv Meters	Uomestic Meters	Functional	881.41	Not available	- E E 23 23	74 640 52		5,522.32
WKG.OB. Maint Mtr Lps Clean UP		Specific	(23,265.79)	107.000	30763 22	55763.22		32763.22
WKG.CGI.Lease	Purchase software and have records scanned	Specific	1072777	23,000,00	32763.22	551		32763.22
Wkg.ENG. Lecove. Softwale/Scali	Durchase software and have records scanned	Specific	101 101	Not available				-
	(Phase I) 8" TLINE	Specific	31 506 71	Not Budgeted		1513318.04		-
WKG.PAD.Ulivet UII Ru REIUGER	BOWI ING GREEN GROWTH FUNCTIONAL	F-Unctional	3 236 77	Not Budgeted	1	93547.62		_
WKG.BG.UG.GROWTH FONDING CONTRACTIONAL	GLASGOW GROWTH FUNCTIONAL	Eurotional	1 981 97	Not Budgeted	-	102818.59		-
2004 40.11542 WNG. GLA. US. GROWTH FLINCTIONAL	HOPKINSVILLE GROWTH FUNCTIONAL	Eunctional	14,966.20	Not Budgeted	1	364996.48		-
-	DANVILLE GROWTH FUNCTIONAL	Eurotional	9.776.75	Not Budgeted		173560.74		1
2004 40.11544 WNG.DAN.03.0100 1000 1000 1000 1000 1000 1000 1	CAMPBELL SVILLE GROWTH FUNCTIONAL	Eurotional	20.447.44		L	353446.17	_	-
T	Shelbyville Growth Functional	Erinctional	6.645.75	-	1	297772.69		-
2004 40.11346 WNG.SVILLE.OSCINGTON	MADISONVILLE GROWTH FUNCTIONAL	Eurotional	1 097.54		4	49845.18		-
T	PRINCETON GROWTH FUNCTIONAL	Finctional	23.369.03	+	-	667225.64		+
1	OWENSBORO GROWTH FUNCTIONAL	Functional	20.417.06	Not Budgeted	1	349048.76	Not Budgeted	Ŧ
1	Paducah Growth Functional	Functional	28,283.06	Not Budgeted	-	144244.16	144244.16 Not Budgeted	:
T	MAYFIELD GROWTH FUNCTIONAL	Functional	32,109.24		-	2480894.0/	Not Budged	
40 11553	BOWLING GREEN NON-GROW IN FUNCTIONAL	Functional	(67,474.67)		-	00,000,010		
40 11554	GLASGOW NON-GROW IH FUNCTIONAL	Functional	14,218.84		-	50 000001		
		Functional	24,236.95	-	-	42000.00	_	
40.11556	IDANVILLE NON-GROW IT FUNCTIONAL	Functional	16,624.34			401.021.12	Not Budgeted	
2004 40.11557 WKG.CVILLE.03.NON-GROWTH FUNCT	AMPBELLSVILLE NON-GROWTH FUNCTIONAL	Functional	(153,631.22)	_		495602 9	1-	1
40.11558		Functional	32,746.98		4	183803.54		-
2004 40.11559 WKG.MAD.03.NON-GROWTH FUNCTION IN		Functional	4,688.98	Not Budgeted		2011098.6	S Not Budgeted	1
	I DIVIENSED NON-GROWTH FUNCTIONAL	Functional	48,334.03	+	-	302035.51		-
2004 40.11561 WKG.0BO.03.NUN-GRUWTH FUNCTION	PADITICAH NON-GROWTH FUNCTIONAL	Functional	10.150,75	+		143546.61		-
40.11562	MAYFIELD NON-FUNCTIONAL	Eurotional	(464.34)		-	0.00	Not	
2004 40.11563 WING THCH SUC.NON-GROWTH FUNCTI	TECH SERVICES NON-GROWTH FUNCTIONAL	Specific	35,328.31		-9641.42		4 43,942.26	-3041.42 06.41.42
40.11567	640' 4" STEEL MAIN	Specific	(1,027.47)	43		34300.84		-
	1640' 4" SIEEL MAIN	Specific	558.53	(439.22)			1	
40.11593		Specific	2,125.04		0102 12			
	2/20' 2' PE MAIN	Specific	2,602.21	73,660.00		a -10741.09		
6	Reiffercieatiup Notice 12 7760 ET - A" PF - ROGER WELLS BLVD GLASGOW	Specific	1,2/2.60	Not avail	ŀ		Not avail	-
2004 40.1162 WKG.BGR.GLS.RUGER WELLS EXI	I OHDEN RD. RELOC GLASGOW	Specific	(13 / / 3/ 7)		1	27,060.90	Not av	
2004 40.11625 VVKG.BGR.GLS.LUTIDLIN 10.11-50	Replace 35' - 4" WAS CUT	Specific	17 35	+				1283.32
2004 40.11654 VVKG.PAD.HWY 92/041 Neprace	new Miller model 301 G	Specific	46.658.55		9 4566.51			
40.11655	5000 4" STEEL PIPE	Specific	78,386.32					_
Т	5000 4" STEEL PIPE	Specific	(2,276,00)			-		4
2005 40.11653 040.043.1101 12.400 CE211 101 12.400 CE211	Install 350' - 2" P.E for new subd.	Specific	2,276.0					
Т	Install 350' - 2" P.E for new subd.	Specific	6,172.67		0 25439.87		37 14,998.00 37 14,998.00	0 25439.07
	Converting Campsbellville Maps	Specific	(179.52			10 40431 01		
1	Converting Campsbellville Maps	Specific	3,830.19	9 29,996.00				4
2004 40.1168 040.ENG.BGL.Mapping Conversion	Converting Maps							

I teb ATT F I teb ATT F REPAIR PARSIMENTS I PARSIMENTS I PL SEC II PL S		Frunctional or Specific			Variance In Dollars 21050.21.50 650.25.5 65012.62 53012.62 54012.6	Total Actual Total Actual Project Cost E E 31046.21 31104	P&N Cost stimate 29,996.00 3,344.87 21,300.00	Variance in Dollars 21050 21
N. CONVERSION Red. Mapping Conversion MAD. KEN MEL APARTIMENTS Reg Sita-Sys Integrity Reg Sita-Sys Integrity (IMADISON AVE ISPN MAGNOLIA PL SEC II LISHV MAGNOLIA PL SEC II ASHV ROBIN PLACE VISHV ROBIN PLACE VISHV ROBIN PLACE VISHV CARRINGTON PH I VISHV CORRIN PLACE VISHV CORRIVER TREET VISHV CORRIVER VIEW RELO						72 94 94 94		Dollars
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40.11734 040.0B0.SOUTH TOWER SIRKEL 40.11735 040.0BN SHV.ROBIN PLACE 40.11736 040.DAN SHV.ROBIN PLACE 40.11738 040.DAN SHV.ROBIN PLACE 40.11739 040.DAN SHV.ROBIN PLACE 40.11739 040.DAN SHV.ROBIN PLACE 40.11739 040.DAN SHV.CARRINGTON PH1 40.11731 040.DAN SHV.CARRINGTON PH1 40.11751 040.DAN SHV.CARRINGTON PH1 40.11751 040.0B0.4TH STREET REPLACEMENT 40.11774 040.0BGR.CABELLDR.REPLC. 40.11773 040.0DAN.LAW.NAUTICAL CHASE RAPP 40.11773 040.0BGR.CABELLDR.REPLC. 40.11773 040.0BGR.CABELLDR.REPLC. 40.11774 040.0BGR.PARK/AIRVIEW REPLC.	NUNIE LANE - CATABA ROAD-164 1 ROBIN, BLACKWELL, AND LENA CT Sp RANGTON PLACKWELL, AND LENA CT Sp RANGTON PLACKE - APARTMENTS BAKER DISD RANGTON PLACE - APARTMENTS BAKER DISD RANGTON PLACE - APARTMENTS BAKER DISD RAFEA Sp AREA SP	ectific ectific ectific ectific ectific sectific sectific	14,076,09 (409,38) (409,38) (221,87) (221,87) 11,270,87 36,574,21 (1,063,70) 43,697,19	15,175,00 15,175,00 7,375,00 7,375,00 7,375,00 7,509,81 76,822,00 76,822,00			16,600.00	212/8/27 212/8/28
040.DNI.SHY, ROBIN PLACE 040.DNI.SHY, ROBIN PLACE 040.DNI.SHV, ROBIN PLACE 040.DNI.SHV, CARRINGTON PH I 040.DNI.SHV, CARRINGTON PH I 040.0B0.4TH STREET REPLACEMENT 040.0B0.4TH STREET REPLACEMENT 040.0B0.4TH STREET REPLACEMENT 040.DNL.LAW, 7005.REIM RELO 040.DANLAW, 7005.REIM RELO 040.DANLAW, NAUTICAL CHASE APP 040.DANLAW, NAUTICAL CHASE APP	I ROBIN BLACKWELL, AND LENA CT BLACKWELL, AND LENA CT RENGTON PLACE - APARTMENTS BAKER DI SD REINGTON PLACE - APARTMENTS BAKER DI SD REINGTON PLACE - APARTMENTS BAKER DI SD AREA SPAREA	ecific ecific ecific ecific ecific pecific	(409.38) 7,628.95 (221.87) (221.87) 11,270.87 36,574.21 (1,063.70) 43,697.03 (1,357.98)	15,175.00 7,375.00 7,375.00 47,509.81 76,822.00 76,822.00		19723.56	10.6/1,61	4548.56
040.DAN.SHV.ROBIN PLACE 040.DAN.SHV.ROBIN PLACE 040.DAN.SHV.CARRINGTON PH I 040.DBN.SHV.CARRINGTON PH I 040.0BO.ATH SITREET REPLACEMENT 040.0BO.ATH SITREET REPLACEMENT 040.0BO.ATH SITREET REPLACEMENT 040.0AD.HWY 7008.REIM RELO 040.DAN.LAWN 70168.REIM RELO 040.DAN.LAWN 70168.REIM RELO 040.DAN.CAMPLUAN INNEXP 040.DAN.CAMPLUAN INNEXP 040.DAN.CAMPLUIDAY INN EXP 040.DAN.CAMPLAN INNEXP 040.DBR.CABELL DR. REPLC.	I RUBIN BLACKWEEL APARTMENTS BAKER DI SP RINGTON PLACE - APARTMENTS BAKER DI Sp RINGTON PLACE - APARTMENTS BAKER DI Sp SP AREA SP AREA SP SP SP SP SP SP SP SP SP SP SP SP SP	ecífic recífic recífic recífic recífic	7,628.95 (221.87) (221.87) 11,270.87 36,574.21 (1,063.70) 43,697.19 (1,357.98)	7,375.00 7,375.00 47,509.81 76,822.00 76,822.00			7 375 00	3017.01
040.DAN.SHY.CARRINGTON PH I 040.DAN.SHY.CARRINGTON PH I 040.DDAN.SHY.CARRINGTON PH I 040.DDB.REG.STA. INTEGRITY 040.0B0.4TH STREET REPLACEMENT 040.0B0.4TH STREET REPLACEMENT 040.DBA.HWY 7006.REIM RELO 040.DBALLAWN AUJICAL CHASE APP 040.DBALLAWN AUJICAL CHASE APP 040.DBALLAWN AUJICAL CHASE APP 040.DBALCAMELL DR. REPLC. 040.DBCR.CABELL DR. REPLC. 040.DBCR.CABELL DR. REPLC. 040.DBCR.CABELL DR. REPLC.	KRINGTON PLACE - APARTMENTS BAKER DI Sp Sp AREA 99 SP SP SP SP SP SP SP SP SP SP SP SP SP	ecific ecific ecific ecific ecific	(221.87) 11,270.87 36,574.21 (1,063.70) 43,697.19 71 352 98)	7,3/5,00 47,509.81 76,822.00 76,822.00			7.375.00	3017.01
040.DAN.SHV.CARRINGTON PH I 040.DBN.SHV.CARRINGTON PH I 040.0B0.4TH STREET REPLACEMENT 040.0B0.4TH STREET REPLACEMENT 040.0AD.HUVY 70/85.REIM RELO 040.MAD.HUVY 70/85.REIM RELO 040.DAN.LAW.NAUTICAL CHASE APP 040.DAN.LAW.NAUTICAL CHASE APP 040.DBR.CABELL DR. REPLC. 040.DBR.CABELL DR. REPLC. 040.DBR.PARKIFAIRVIEW REPLC.	AREA 0.00 L 0.00	ecific ecific becific becific	11,270.87 36,574.21 (1,063.70) 43,697.19 71 352 98)	41,509.01 76,822.00 76,822.00			47,509.81	9168.57
040.0B0.REG.STA. INTEGRITY 040.0B0.4TH STREET REPLACEMENT 040.0B0.4TH STREET REPLACEMENT 040.0AD.HUVY 70/85.REIM RELO 040.MAD.HUVY 70/85.REIM RELO 040.DAN.LAW.NAUTICAL CHASE APP 040.DAN.LAW.NAUTICAL CHASE APP 040.DBR.CABHLI DR. REPLC. 040.DBR.PARKIFAIRVIEW REPLC.	<u>8</u> 888	ecific becific becific	43,697.19 (1,063.70) 43,697.19 (1,352.98)	76,822.00	19836.3			19836.3
040.0B0.4TH STREET REPLACEMENT 3150 2" PE MAIN 040.0B0.4TH STREET REPLACEMENT 7150 2" PE MAIN 040.0B0.4TH STREET REPLACE RELOCATE 2000 0F 4" STL 040.0AD.HWY 70/85.REIM RELO REPLACET 1050 FT - 4" - CABELL DR BOI 040.0AN.LAW.NAUTICAL CHASE APP INSTALL 3240 '0F 4" STL 040.0BR.CABELL DR. REPLACE REPLACE 040.0DAN.LAW.NAUTICAL CHASE APP INSTALL 3260 '0F 2" PE FROM HWY '127 AL 040.0DAN.LAW.NAUTICAL CHASE APP INSTALL 3660 'OF 2" PE FOR HULL PR BOINLID 040.0BR.CABELL DR. REPLC PARK & FAIRVIEW REPLC 040.0BGR.PARK/FAIRVIEW REPLC PARK & FAIRVIEW REPLC 040.0BGR.PARK/FAIRVIEW REPLC PARK & FAIRVIEW REPLC	80 80 80	Decific	43,697.19			96658.3	76,822.00	19836.3
OBJORD AIL TP SINCE I AND TO THE OCATE 2000' OF 4" STL 0400 MAD JHVY 70/86. REIM RELO RELOCATE 2000' OF 4" STL 040. MAD JHVY 70/86. REIM RELO RELOCATE 2000' OF 4" STL 040. DAN LAW MAUTICAL CHASE APP INSTALL 324' OF 4" CABELL DR BOI 040. DAN LAW MAUTICAL CHASE APP INSTALL 324' OF 4" CABELL DR BOI 040. DAN LAW MAUTICAL CHASE APP INSTALL 360' OF 4" STL 040. DAN LAW MAUTICAL CHASE APP INSTALL 360' OF 4" STL 040. DAN LAW MAUTICAL CHASE APP INSTALL 360' OF 2" PE FOR HUM' 127 AL 040. DAN LAW MAUTICAL CHASE APP INSTALL 360' OF 2" PE FOR HULLDAY INN 040. DAN CAM HOLLDAY INN EXP PARK & FAIRVIEW REPLC. 040. DAR, PARKIFAIRVIEW REPLC. PARK & FAIRVIEW REPLC. 040. DGR, PARKIFAIRVIEW REPLC. PARK & FAIRVIEW REPLC.	Sport and a sport and a sport		11 352 981	51,353.20				-348.1
Optimization Rel OCATE 2000 0F 4" STOM HWY 127 AI Optimization RELOCATE 2000 0F 4" STOM HWY 127 AI Optimization REPLACE REPLACE REPLACE Optimization REPLACE		Decilic	17-2-222211				33,100,00	66.902.89
040.DMLLAW.NAUTICAL CHASE APP INSTALL 3240 OF 4" PE FROM HVM TZL A 040.DMLLAW.NAUTICAL CHASE APP INSTALL 3240 OF 4" PE FROM HVM TZL A 040.DBGR.CABELL DR. REPLC. REPLC. REPLACE 1060 FT - 4" - CABELL DR - BOWL 040.DBM.CAM.HOLLDAY INN EXP 040.DBGR.PARK/GAIRVIEW REPLC. PARK & FAIRVIEW REPLCEMENT - BOWL 040.DBGR.PARK/FAIRVIEW REPLC. PARK & FAIRVIEW REPLCEMENT - BOWL	ONC STATE POINTE 44	oecific	(528.43)		66,902.89		58,233.22	-1452.83
040.BGR.CABELL DR. REPLC. REPLAE. 1000.11: -4 0200. 040.DBN.CAM.HOLIDAY INN EXP 040.01DAN.CAM.HOLIDAY INN EXP 040.060R.PARKIFATIWIEW REPLC. PARK & FAIRVIEW REPLCEMENT - BOWLI 040.060R.PARKIFATIWIEW REPLC. PARK & FAIRVIEW REPLCEMENT - BOWLI		pecific	56,780.39			1		-7856.24
40.11773 040.DAN.CAM.HOLIDAY INN EXP 40.11774 040.BGR.PARK/FAIRVIEW REPLC. PARK & FAIRVIEW REPLCEMENT - BOWLI 40.11774 040.BGR.PARK/FAIRVIEW REPLC. PARK & FAIRVIEW REPLCEMENT - BOWLI 40.11774 040.BGR.PARK/FAIRVIEW REPLC. ACCOVERTING AND A THE REDOKS		pecific	440.24	74,959.96	Ľ			-73114.35
040.BGR.PARKIFAIRVIEW REPLC. PARK & FAIRVIEW REPLCEMENT - BOWLI 040.BGR.PARKIFAIRVIEW REPLC. 26000 910 54 54 54 55 54 55 55 55 55 55 55 55 55		Decific	27.61		-73		4,939.90	-13114.33
		Specific	10,948.86		-25.42	84/4.58		-25.42
AND ORD THE BROOKS		Specific	(318.43)		ĉ			24430.55
1500' 2" PE MAIN - THE BROOKS	ANDERSON CROSSING SHOPPING CENTER SI	Specific	7,915.86					-330.26
040.DAN.LAW.ANDERSON CROSSING INSTALL 1200 OF 2' FE FOR MODELING		pecific	11,240.04 AB 924 4					489.63
2615 F1. OF Z FE - HIL OF A		pecific	233.84		-			15613.00
040.BGR, 1300 BLK, KY KEPLU.		Specific	10,671.87	24,937.00		32264.18	11 000 00	6943.02
40.11808 040.MEA. I EUROVO.INON UNVIEND	S	pecific	18,480.50					6943.02
2004 40.11809 UdU.MEA.RESYS. RESUSTING PILL ISON OF 2" PE ON WINDSOR DR	S	Specific	(537.48)	11,000.00	0 6943.UZ		4,083.69	738.17
040.DAN.SHV.PARK PLACE P II		Specific	4,821.85	Not available			Not	-
040.BGR.Briarwood Section 19		Specific	(3,401.03) 1 885 01	24 970.31		2		-3475.65
		Specific	4,444,86	6,600.00			6,600.00	490.00
40.11839 040.BGR.GLS.DUNNELLI FUN		Specific	(129.27		490.86	1 356 79		5
		Specific	(1,000.66)					
40.1185 040.DAN.SHV.151-127 2" ST RELO		Specific	30.14	2,903.00			5 5,336.00	
40 1185 040.DAN.SHV.151-127 2" ST RELO	& CRK HARE	Specific	313.21					
40.11851 040.0BO.HARBOR TRACE SEC 1	LS TRACE & CRK HARE	Specific	4E 426 E4		46	15(
40.11851 040.0BO.HARBOR TRACE SEC I		Specific	17 955 84		_			
2004 40.11853 040.BGK 1300 BLK CULEGE 2004 40.11853 040.BGK TOLLEGE 2005 15 10 10 10 10 10 10 10 10 10 10 10 10 10		Specific	(476.20)			121	4 22,015.00	-507.49
40.11855 U40.CAIM.CALVARY BOILEN VIECO		Specific	2,336.32			440.4 370.46.78		
		Specific	3,351.36		32 -1682/.U4			
ER		Specific	2,154.95					
T.		Specific	(62.67)	0,00,00	Ĺ	56 102924.56	,	
40,11867 040.PAD.Equipment		Specific	34 014 52	1				_
40.11868 040.STO.Equipment Purchase		Specific	(989.2	0		4		1411 93
40.11871	TIC 35,000 AIC	Specific	1,333.62	3,360.00	00 -1411.93	93 1948.U/		
	PE# 9515-201	2 mondo	1					

Atmos Energy Corporation (Kentucky Division) Case No. 2006-00464 Construction Projects Fiscal Years 2004 - 2006

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Nofey:: KPSCDR-2 Item 16b ATT 40.MAD.AYR PARKWAY 40.MEAS. TCHSVS.EFM.10FO 40.MEAS. TCHSVS.EFM.10FO 40.MEAS.METER AND TESTER 40.STO.Marker Post Decals 40.STO.Marker Post Decal	Description Textual and sends: Project Description Description <thdescription< th=""> Description <thdescripti< th=""><th>Data:Base Period Type of Filing:XOri</th><th>riod Forecasted Period Revised Opdated Revised</th><th></th><th></th><th></th><th></th><th>2</th><th>Witness Responsible:</th><th>ble: R. Cook</th><th></th></thdescripti<></thdescription<>	Data:Base Period Type of Filing:XOri	riod Forecasted Period Revised Opdated Revised					2	Witness Responsible:	ble: R. Cook	
		Workpaper Reference		Functional and Specific Projects							
					Functional or Snecific Protect	Actual Cost in Referenced Fiscal Year	Original P&N Estimate	Variance In Dollars	Total Actual Project Cost	Total P&N Cost Estimate	Variance in Dollars
		Project No.			Specific	(38.79)	3,360.00	-1411.93	1948.07	3,360.00	-1411.93
		05 40.11872	040.MAD.AYR PARKWAY		Specific	183.18	6,548.00	724.69	12/2/209	35 850.00	2502.95
		40.11874	040.MEAS.TCHSVS.EFM.TOYO		Specific	2,059.84	35,850.00	CE.20C2	2.629.73	Not available	
		40.11876	040.MAD.PROVER AND 1ES1EK	of US Hwy	Specific	100.620,6)	13.794.00	-1730.78			-1730.78
		40.1188	1040.PAD.Weirop. Lake replace		Specific	08.666.7		-11922.28			-11922.28
		40.11664	DAD MEAS METER OUTSOURCING		Snecific	31,526.68		9859.78			0023.10
		40.11000	040.SHV.NORTH COUNTRY SEC IV		Specific	(916.90)					903.63
			040.SHV.NORTH COUNTRY SEC IV	FS	Specific	10,097.29					903.63
		1	040.SHV.FOXWOOD EST		Specific	(293.66)					308.38
			040.SHV.FOXWOOD EST	INSTALL 300 OF 2 FE INT 2000 COSSING P I	Specific	22,090.39					308.38
0.103 0.000000 0.000000 0.000000 0.000000 0.0000000			040.SHV.FAIRWAY CROSSINGS	INSTALL 3000' OF 2" PE FOR FAIRWAY CROSSING P I	Specific	53 050.80					-1260.1
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		40.11890 An 11904	040.3HV:FAWAYA OKOOCIA	YZ NJEX System for 12" @ Nortonville	Specific	(1,542.90)					- 1200.1
01 10000 1000 1000 <		2005 40.11904	040.meas.12" Odorizer	YZ NJEX System for 12" @ Nortonville	Specific	2,915.96			402/.1 594 71	756.79	-162.08
01100 0100000 01000000	01100010000010000010000010000010000010000 </td <td>2004 40.11905</td> <td>040.obo.mea.MISC TEST EQUIP</td> <td>1-1</td> <td>Specific</td> <td>594.71</td> <td></td> <td>E</td> <td>4,908.85</td> <td>6,695.00</td> <td>(1,786.15)</td>	2004 40.11905	040.obo.mea.MISC TEST EQUIP	1-1	Specific	594.71		E	4,908.85	6,695.00	(1,786.15)
		2004 40.11906	040.BGR.FRK.MEMUKIAL UK.	1	Specific	6 667 28			9827	5,380.00	4447
	Normalization Normaliz	2004 40.11909	040.PAD. Willow Flat Itatiuit	485' 4" PE & 560' 2" PE	Specific	(193.90)					4447
0.1111 0.0000 GNUTRY IN FULCE Description 0.0010 GNUTRY IN FULCE Description 0.0010 GNUTRY IN FULCE Description 0.0010 GNUTRY IN FULCE Description Description<	0.1111 1.111 1.1110	2004 40.1191	1040.000.Calumet Trace 2	- 10	Specific	14,073.21					4333.00
di <td>(1111) (1212)</td> <td>2003 40.11911</td> <td>040.MAD.GRV.PUR STA REPL</td> <td>REPLACE GREENVILLE PURCHASE STATION</td> <td>Specific</td> <td>(0.02)</td> <td></td> <td></td> <td></td> <td></td> <td>(1 495.00)</td>	(1111) (1212)	2003 40.11911	040.MAD.GRV.PUR STA REPL	REPLACE GREENVILLE PURCHASE STATION	Specific	(0.02)					(1 495.00)
Ont offer the field of the field o	Option Election Specific option Statistic option Statistic option	2005 40.11911			Specific	(623.53)			10086.30		41
Option Description Description <thdescrin< th=""> <thdescrin< th=""> <thdescrin< <="" td=""><td>Operation Description <thdescription< th=""> <thdescription< th=""> <</thdescription<></thdescription<></td><td>2004 40.11914</td><td></td><td>Beulah relocation 223 2 15</td><td>Specific</td><td>249.90</td><td></td><td></td><td></td><td></td><td>(3,462.00)</td></thdescrin<></thdescrin<></thdescrin<>	Operation Description Description <thdescription< th=""> <thdescription< th=""> <</thdescription<></thdescription<>	2004 40.11914		Beulah relocation 223 2 15	Specific	249.90					(3,462.00)
Off med feature (and med feature) Enclose (and med feature) <theat (and="" feature)<="" med="" th=""> <th< td=""><td>Off med feature (and med feature section) Enclose (and med feature s</td><td>40.11915</td><td>040.PTON.Wmson Equip</td><td>Williamson equipment of 1 mocon case and the second s</td><td>Specific</td><td>(1,438,49)</td><td></td><td></td><td></td><td></td><td></td></th<></theat>	Off med feature (and med feature section) Enclose (and med feature s	40.11915	040.PTON.Wmson Equip	Williamson equipment of 1 mocon case and the second s	Specific	(1,438,49)					
March Certification EFEPA/ACE RepLA/ACE Statistication Statisticati	Multication EFFLACE EFFLACE EFFLACE EFFLACE State 3	40.11916	040.mad Beulah relocation 2	REPLACE 2000' OF 4" STEEL WITH 4" PE ON CENTRAL AVE FROM WALNUT TO LINCOL	LN Specific	4 443 17					
Out CAM CENTRAL ATE SERVICES Define Total Constraint Total Constrain	Out Spacing Total Section Total Section <thtotal section<="" th=""> Total Section</thtotal>	40.11918 40.11918	1040. CAM. CENTRAL AVE - TXL: CASE	REPLACE 2000' OF 4" STEEL WITH 4" PE ON CENTRAL AVE FROM WALNUL TO LINCOL	Specific	26,007.49					
Open CMIC Ref Specific and CMIC Ref Spe	Due OM: CENTRAL ME SERVICES TERPLE: TO STRUCT STREPT: Construction of the strept strept strept of the strept strept of the strept	40.11919	040.CAM.CENTRAL AVE SERVICES	REPLACE 27 SERVICES ON CENTRAL AVE FROM WALNUL TO LINCOLN	Specific	(756.38)					Ľ
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 0.00 \ BOR \ KENTON STR FPUC \\ 0.00 \ BOR \ KENTON STR FPUC \\ 0.00 \ BOR \ KENTON STR FPUC \\ 0.00 \ BOR \ SPANNEL \ MARKEL \\ 0.00 \ BOR \ SPANNEL \ MARKEL \ $	40.11919	040.CAM.CENTRAL AVE SERVICES	REPLACE 27 SERVICES ON CENTRAL AVE FROM WALMON OF AN AND AND AND AND AND AND AND AND AND	Specific	33,972.29					1
0406 BRS FRINDING 0500 K HIOT NICL 1500 K HIOT NICL </td <td>Description Secretion Secretion</td> <td>40.11922</td> <td>040.BGR.KENTON ST.REPLC</td> <td>430 - 4 PE REFLO: 1300 BLK RENTON ST B.G.</td> <td>Specific</td> <td>10.040 40</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Description Secretion	40.11922	040.BGR.KENTON ST.REPLC	430 - 4 PE REFLO: 1300 BLK RENTON ST B.G.	Specific	10.040 40					
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Voriance in		\square		11.6162- 00			-7			00 -4948.01				00 1253.95			1.51 103.21		1.55 408.67		5.00 <u>2039.0</u>		8.71 -855.43		87, 186.00 -2481.00 27, 486.00 -2481.86	1			24.39 1469.44				32,969.98 43485.79		Ľ	366.80 24348.2	67,366.80 24348.2	822.10 3230.1	3,822.10 3230.1	260.00 320.11			949.00 -375.44			10.888.00 228		3,300.00 -21.79	
	Total P&N Cost Estimate						59 124,715.00		Ì					3.501.00				9.72 00,094.01				813.2 80		18113.28 18,96								52373.98 43.2 52373.98 43.2			2319.4/		91715 67.		7052.2 3,		106580.11 106580					16449.32 ZU			3278.21
	Proje	7 51024.12 7 1246.92										04 25325.04		95 4754 95				.21 65259.72			2699.8				-2481.86 847(-9/3.21 32				9117.79 523					1348.2		3230.1					-375.44				120	
	Var	1494.88					70761 41							00 1253.95			51 165.21																							106.260.00				949.00		20,822.13	10,888.00	10,888.00	300.00
	Original P&N Estimate	52,519.00									13,200.00			3,501.00				65,094.51					35) 865.00									43,256.19														7 775 78 20,			
	Actual Cost In Referenced Fiscal Year	(1,528.40)	1,284.27	(37.35)	22,418.91	(652.02)	97,716.52	(2,762.93	127,080.53	1,686.37	8,498.35	(247.16	26,083.64	4 897.35	(142.44)	7,000.4	(203.60)	61,214.5	2,760.50	(80.2	7,029.2	R37.55	(24.3	18,655.6	(542.58)	197,241.	2.329.	(67.	3,392.	(98)	1,996	44.548.89	7,825	70,108	0,041	(6)	94,46	(2,747.28)	7,26	(67.112) 73 077 004	13 19	116.410.09	(3,36	25		14,1	11,4	(3	3,3
	Functional or	Specific	Specific	Snecific	Snecific	Snecific	Snecific	Snecific	Snecific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Snacific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific	Specific
Functional and Specific Projects		n-and Title / Description	Project Inter Docup	Dresser Rotary Weters	215' Rev Ext tor Mike Schuster/ Blanchester Ct	215' Rev Ext tor Wilke activation present active Pact	Install additional marker rost	Install additional market rost	American Meters for PC Flogram(Mciunkin)	American Meters for P.C. Flogram, and a second s	Meter Outsourcing/results	Meter Outsourchigh Teaming	INSTALL DUMP BED ON 2-TON CONSTRUCTION TRUCK	Commercial and Industrial Regulators	Commercial and industrial Regulators	RELOCATE 120' OF 4' STEEL WITH 4" PE AT VA CEMETERY - LEBANON	RELOCATE 120 OF 4 December Oaks Church	1,200' Rev Ext/ Holt Rd/ Twelve Oaks Church	1850 FT. OF 6 STL ETHANOL PLANT - HOP		815 F1. UF 4 FE - EAGLE WAY BYPASS- TR			130' 2" P.E.Rev Ext for Wayne Granam	130' 2" P. E. Kev Exition wears dential lots. CHD developers. Phase I. The Grove		Upgrade system to accomidate OMU	Upgrade system to accomidate UNU	040.0B0 375' 2" PE KETIKE 1-1/2"PE	040.0BU 3/2 Z FE NETWORK OF 3 new lots. D & D	280 - 2 r. L along Castleton for 3 new lots. D & D	160' - 2" P.E for two existing residential customers. Ron Peaveyhouse, Megan Dr				T				T	T			DESKTOP COMPUTERS	UESKIOF COM STATES Rd II Rev Ext/ 140' - 2" P.E/	- 2" F			
	Workpaper Reference No(s).: KPSCDR-2 Item 100 A11		Fiscal Broset No	Teal Trigourse Louise Toreve Dresser Meters	40.119/3	Т	40.11974 U4U.PAD	40.11975	Т	Т	T	2004 40.119/1 040.meas.recsvs.Outsourcer	40.11978		40.11979	40.11979	2004 40.1196 040.CAM.LEB.VA CEM RELOC	40.11981	40.11981	40.11982	2005 40.11962 040.BGR.HOP.EAGLE WAY	2005 40.11984 040.BGR.HOP.EAGLE WAY	40.11985	40.11985	2004 40.11966 040.PAD.Ohio Ct Rev Ext II	40,11987		40.11988	2005 40.11988 040.51.0.000 009/000	2004 40.11969 040.000 WAYNE BRIDGE RELOC	40.1199	40.1199	40.12022	2005 40. 12022 040. MAD. PENNY/EARL CROSS RELO	40.12023	40.12024		2004 40.12025 040.510.500 Regulator Stat	2005 40.12025 040.0B0.14TH ST. REPLACEMEN	2004 140.12026 040.0B0.14TH ST. REPLACEMEN	2004 40.12027 040.0BO.CROSS CREEK PHASE		40.12028	2005 40.12028 040.2003.150 0509 0500	AD 12020	\square	40.1203	9	2005 40.12031 040.mm.r.c.

Atmos Energy Corporation (Kentucky Division) Case No. 2005-00464 Construction Projects Fiscal Years 2004 - 2005

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Data:_____Base Period _____Forecasted Period Type of Filing:___X__Original _____Updated _____

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Revised

Witness Responsible: R. Cook

	a Ermertional and Specific Projects					Witness Responsible:	IDIE: K. LOOK	
Workpaper Reference No(s).: KPSCDR-2 Item 160 A 1			Actual Cost in					!
		Functional or Specific Project	Referenced Fiscal Year	Original P&N Estimate	Variance In Dollars	Total Actual Project Cost	Total P&N Cost Estimate	Variance in Dollars
Project No.	Project Title / Description	Snarific	4.370.73	3,900.00	343.61	4243.61	3,900.00	343.01
	5000 WATT PORTABLE GENERATOR	Snecific	(127.12)	3,900.00	343.61			1042401
2004 40.12034 040.SHV.GENERATOR-PORTABLE	5000 WATT PORTABLE GENERATOR	Specific	5,811.20	4,625.00	1017.19			1017 19
T	Detex unit for Shelbyville	Specific	(169.01)	4,625.00	101/.19			14208.16
40.12035		Specific	32,178.69	17,034.67		31242.83	17,034.67	14208.16
2004 40.12036 040.2734.BGR.NASHV. RD. REPLC.	2100 BLK. NASHVILLE RU. NEL CASHINES	Specific	(935.86)	7 502 00				55.36
40.12036	2100 BLA. INASITVILLE IND. IND. AND ANS - B.G.	Specific	1,641.30	10.255.01		14475.58		-3895.74
40.12037	Τ	Specific	14,809.19	10,01 10,01				-3895.74
40.12038		Specific	(433.01)	Not Burdnatad				11265.48
2005 40.12038 040.0BO.WORTHINGTON RU.UUTAGE	Τ	Specific		NOI DUUG				11265.48
	IN THE RELOCATION - BOWLING GREEN	Specific	_	37 037 00				
1	Τ	Specific	40,122.12	37 037 00				
2004 40.12041 040.Meas.tcsvs.Lvc	Replace Noticities and LVC correctors	Specific	1	B 000 04	-2671.29	5328.75		-2671.29
-	Phase I/ 750' - 4" P.E	Specific	15,478,991	8 000.04				
2004 40.12042 040.May Southern by 255	Phase I/ 750' - 4" P.E	Specific	16 904 07	15.488.00				
2005 40.12042 040.May.Sourcetti Uy-pass	Rock roads at St. Charles Storage Fields	Specific	(491.63)	15,488.00			15,488.00	
2004 40.12045 1040.510.5t. Utaties Stor/Bock	Rock roads at St. Charles Storage Fields	Specific	64 689.14		~			-5002 20
2005/40.12045 040.310.31.0181 000 REPI C	1300' - 4" PE - HIGHLAND WAY - B.G.	Charifin	(1 881.37)					1
40.12040		Specific	5,747.49			5580.33	5,743.00	
Т	Install 1200 feet of water line to supply Grandview Storage Office	Shacific	(167.16)					
40.12047		Specific	5,171.63					27.0
1~		Specific	(150.41)					
	1100 FT. OF 2" PE - TWIN ELMS IX - B.G.	Specific	46,493.48			67.141Ch		
40.12049	040.MAD.SENSIT/GOLDS-OUOROWELERS	Specific	(1,352.19)	22,797.60			17 774 40	9602.38
40.12049	040.MAD.SENSI1/GULUS-CUDONOMILICION	Specific	28,196.84					
2004 40.1205 040.2736.HOP.METER/SET-ETHANOL	METER AND SPECIAL METER SET - ETHANOL PLANT - HOPKINSVILLE	Specific	(820.06)		292.93	19842.93		
2005 40.1205 040.2736.HOP.METER/SET-ETHAIVOL	INCLUMENT OF 2" PE IN MULBERRY SEC I ON SQUIRE CIRCLE	Specific	20,451,32					292.93
2004 40.12051 040.SHV.MULBERKY SEC 1	INSTALL 1800' OF 2" PE IN MULBERRY SEC I ON SQUIRE CIRCLE	Specific	a 715.69	9.185.00	248.12		9,185.00	
	INSTALL 350' OF 2" PE ON LYNN ACRES DR TO MARIAN VILLAGE AP 1S	Specific	(282.57					
40.12052	INSTALL 350' OF 2" PE ON LYNN ACRES DR TO MARIAN VILLAGE AP 15	Snecific	6,398.05		ľ			-3445.U3
2003 40.12032 040.011	INSTALL 1350' OF 2" PE IN OSPERY COVE ON	Snecific	(186.08		'7			1
40.12033	INSTALL 1350' OF 2" PE IN OSPERY COVE ON	Snecific	24,923.28		693.42			
40.12030	INSTALL 900' OF 2" PE AND 350' OF 4" PE IN SEC III OF LOCUSI URD ON	Snecific	(724.86					
40 12054		Specific	21,896.39	20,860.00		72.86212		399.57
40 12055		Specific	(636.82)					
40.12055		Specific	17,690.83	13,110.00				
		Specific	(514.51					
2005 40.12056 040.SHV.CREEKSIDE PHASE II	INSTALL 1400 OF 2' PE IN CREENSIDE OF 33 NOT	Specific	37,461.30	39,921.00	3549.2		39,921,00	-3549.2
		Specific	(11,089.74)					
40.12057		Specific	14,033.74			14272.22		Ŷ
	Tria in line #90-143-00 to Texas Gas new pla	Specific	71 1421.02					1 919.28
പ	INSTALL 2 315' 2"PE GRAYSTONE ESTAT	Specific	11.0.0.0	-				
40.1206	INSTALL 2.315' 2"PE, GRAYSTONE ESTAT	Specific Providio	2 198 25			.7 2134.3	3 3,125.00	
2005 40.1206 040.0B0.6F0.0101010101010	INSTALL 300' OF 2" PE TO WADDY FIRE I	Snacific	(63.93)					
_ _		Specific	3,359.41					4 2030.01
_ 1 ~		Specific	(97.70					
40 12063	500 FT. OF 2" PE - NORTH DR FRANKLIN	Specific	2,522.69	9 5,502.15		33 2449.32	52 3,302.13	-3052 83
40.12064	250 FT OF 2" PE - 121H & STUBBINS - B.G.	Specific	(73.37)					
2005 40.12064 040.2734.BGR.12TH & STUBBINS	C	Specific	12,858.42	_	75 -15045.29			-16
		Specific	(373.9		_			
40.12065		Specific	5,392.51			5235.68		
40.12066	EFM installation (@ Akeporto intrem installation @ Akehono	Specific	(156.8					3 241.81
	EFM INSTAllation @ Avenuity ave et de 9" pe - MCOLIARRY RD B.G.	Specific	3,622.60	0 3,2/0.43 c) 3,2/0.43	43 241.81		24 3,275.43	
2004 40.12067 040.2734.BGR.MCUUAKKT KU.	1043 1 1.01 2 1 E	Specific	100.0					
	040 1 1.01 2 1 1							

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Data:_____Base Period _____Forecasted Period Type of Filing:___X__Original _____Updated _____ Revised

Witness Responsible: R. Cook

· (s)oN escored according	a No(s) · KPSCDR-2 Item 16b ATT	Functional and Specific Projects							
	1		Functional or	Actual Cost in Referenced	Original P&N	Variance In		Total P&N Cost	Variance in Dollars
Fiscal		Decised Title (Description	Specific Project	Fiscal Year	Estimate	Dollars	Project CUSt 1	12.558.00	-1524.36
Year Project No.		Project nue / becompany	Specific	11,364.15	12,258,00	-1524.30	11033.64	12,558.00	-1524.36
2004 40.12068	040.STO.Front End Loader	Purchase a front and loader for tractor at St. Charles	Specific	(10.02) 788 05	4 909 10	711.49	5620.59	4,909.10	711.49
2005 40.12068	040.STO.Front End Loader	Installation of EFm@ Federal Mogul	Specific	(168.36)	4,909.10	711.49	5620.59	4,909.10	711.49
2004 40.12069	040.meas.tcsvc.EFIM.Feu. Modul	Installation of EFm@ Federal Mogul	Specific	4.572.70	4,909.10	-469.39	4439.71	4,909.10	409.33
2005 40.12069	1040.IIIEds.(COVC.ET M.) CC. MOSC	EFM installation @ Curtic Maruyosu	Specific	(132.99)	4,909.10	-469.39	4439./1		454.81
2004 40.12071	140 Meas Tosvo EFM. Cmaruyosu	EFM installation @ Curtic Maruyosu	Specific	3,653.44	4,002.00		3041.13		
- 0	1040 2735 GLS.REYNOLDS RD.	375 FT. OF 2"PE - REYNOLDS KU. EXI GLASGOW	Specific	(106.25)	4,002.00				
1	040.2735.GLS.REYNOLDS RD.	375 FT. OF 2"PE - REYNOLDS RU. EAL- GLAGGOW	Specific	81,733.36	36,220.00	43130.20		36 220.00	43136.28
40.12077	040.2735-GLS.LOWES 6" RELOC.	RELOCATE 1000 F1. UF 6" S1L - LUEWS - GLAGOW	Specific	(2,377.08)	36,220.00				
40.12077	040.2735-GLS.LOWES 6" RELOC.	RELOCATE 1000 F1. UF 6" SIL - LUEWS - GLADOW	Specific	8,358.55	00.283,7				523.46
1	040.2734.BGR.STONEHENGE V	1648 F1. UF Z' PE - STUNETIENCE V - 2.0.	Specific	(243.09)	00 FFL F				
2005 40.12078	040.2734.BGR.STONEHENGE V	1648 FT. OF 2" PE - STONEHENGE V - D.O.	Specific	286.70		1432641-	278.36		
2004 40.12079	040.PAD.N 7th St Main Ext	190' - 2" P.E. ext from N duits to teal of 417 N 7th	Specific	(8.34)					
2005 40.12079	1		Specific	46,503.79	35, 162,00	5 0800			9989.3
2004 40.1208	040.STO.XP Projectors	Purchase Arr Projectors	Specific	(1,352.49)				23,184.00	
2005 40.1208	040.STO.XP Projectors	Pulchase Arr Floyeums	Specific	22,039.44			21981.01	23,184.00	'
2004 40.12081	040.STO.Emerg Portable Radios	Pulchase entrugency radios	Specific	100001				17,925.02	-4339.3
8	040.STO.Emerg Portable Kadios	I curchase and growny research (Install 520' - 2" PE/ Retire 513' - 1" Bare	Specific	10,395.01	17 925.02				Ì
2004 40.12082	040.PTON.Shady Ln Keplacement	Shady In Replace/ Marion, KY/ Install 520' - 2" PE/ Retire 513' - 1" Bare	Specific	1 455 99					
2005 40.12082	040.PTON.Shady Ln Replacentent	NIRSTALL 700' OF 2" PE	Specific	(42.35)				1,139.66	
2004 40.12083		INSTALL 700' OF 2" PE	Creatin	6 353.25			6320.08		-23067.00
2005 40.12083		Detex Odor detectors	Specific	(33.17)					
2004 40.12087	040. I CSVS.IVIEdS.LUELEX	Inetex Odor detectors	Specific	60.350.07	81,589.33				-22934.44
2005 40.1208/	040. I CSVS. WIEdS. UPLIEA	STATION HEATERS FOR MORTONS GAP, HANSON, SLAUGHIERS	Charific	(1,755,18)			58594.89		
2004 40.12088		STATION HEATERS FOR MORTONS GAP, HANSON, SLAUGHLERS	Specific	2.007.05					
20021 10 40.12000		INSTALL 300' OF 2" PE ON GRIFFIN OF 151 IN LAWRENCEBURG	Snecific	(58.37)		-1581.32		3, 230.00	
ZUU4 4U. 12009	IND SHV I AW GRIFFIN ST	INSTALL 300' OF 2" PE ON GRIFFIN OF 151 IN LAWKENCEBURG	Snecific	4,848.32					20179
ZUU21-04-001-2002		EFM INSTALLATION @ FRANKLIN PRECISION	Specific	(141.01					
2004 40.1203	Т	EFM INSTALLATION @ FRANKLIN PRECISION	Specific	4,350.65		\rightarrow	4224.12		
2004 40 1203	Т	Purchase (2) Sensit Gold C.G.I's	Specific	(126.53)		_		4 049 47	
2005 40 12091	Τ	Purchase (2) Sensit Gold C.G.I's	Specific	4,350.65			21.7224 12		ļ
2004 40 12092	Т	Purchase (2) Sensit Gold C.G.I's for maylieru	Specific	(126.53					
2005 40 12092	Т	Purchase (2) Sensit Gold C.G.I's for Mayneru	Specific	6,525.97	6,074.21	201.30		6.074.21	1 261.96
2004 40 12093	1	Purchase (3) Snsit Gold C.G.I'S for Faducati	Specific	(189.80					
2005 40.12093		Purchase (3) Short Gold C.G.I'S for Fautucar	Specific	2,175.32	2,024.00		2112 05	2.024.00	
2004 40.12094			Specific	(63.27					
2005 40.12094			Specific	2,1/5.32					0 88.05
2004 40.12095	5 040.2735.GLS.SENSIT GOLD	SENSIL GULU W/ FIERGLASS PROBE - GLASGOW	Specific	103.21)		174.12			
2005 40.12095			Specific	4,300.05					
2004 40.12096		2 - 3ENSIT GOLD WIFIBERGLASS PROBE - HOPK	Specific	1 128 02	1 227.71				
2005 40.12096		or 2" P F extension for Western Ky Door/ Commerce St/ Cadiz, Ky	Specific	120.02					132.5
2004 40.12097		an' - 2" P F extension for Western Ky Door/ Commerce St/ Cadiz, Ky	Specific	21 082 86				7 16,422.00	
2005 40.12097	7 1040, P I UN. Commerce St India LAN	Equipment for ROC training trailer	Specific	(613.16)					0 4047.7
2004 40.12099	T	Equipment for ROC training trailer	Snecific	2,213.9		2 -773.53	53 2149.59		_
20001 01 0000	-T	PURCHASE 1 SENSIT GOLD DETECTOR	Specific	(64.39)				2,323.12 0 74 541 00	4-
2004 40.1203	DAU OBO SENSIT GOI D	PURCHASE 1 SENSIT GOLD DETECTOR	Snecific	8,509.15			32 8251.50		╇
2005 40.12099	9 040.000.3EN31 00c0	470 FT. OF 6" STEEL RELOC N RACE STREET - GLASGOW	Snecific	(247.47)	<u> </u>	00 -13279.32			TO 5728 53
ZUU4 40.121	040.2735 GI S N RACE 6" RELOC.	470 FT. OF 6" STEEL RELOC N RACE SI KEEL - GLASGOW	Specific	30,270.91			53 29390.33	73 662 00	
2003 40.121		install EFM @ Northend 12" Station	Specific	(880.38	23				
2004 40. 12 103 2005 AD 12103		install EFM @ Northend 12" Station	Specific	8,961.49			17 8/ UU.00		
2003 40 12104	T	1,470' - 2" P.E ext for Brookhaven Subor Malcus Burnett - Developer	Specific	(260.6	53) 7,226.69			-	ļ_
2005 40 12104	T	1,470' - 2" P.E ext tor Brooknaven Subur Marcus Burner.	Specific	1,655.29				5 931.00	
2004 40.1210	1	190' - 2" PE ext for Joe Skinner/ 3500 Buildeeur hev Ext	Specific	(48.14)	14) 931.00	1728.44		21	00 -1728.44
2005 40 12105	1		Specific	20,163.49					
2004 40.12106	06 040.DAN.REGIONAL REG REPAIR-04								

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Data:Base Period Type of Filing:XOri	sriodForecasted PeriodRevisedRevised					>	Witness Responsible:	ble: R. Cook	
Workpaper Reference No(s).:	e No(s).: KPSCDR-2 Item 16b ATT	Functional and Specific Projects							
			Functional or Searitic Project	Actual Cost In Referenced Fiscal Year	Original P&N Estimate	Variance In Dollars	Total Actual Project Cost	Total P&N Cost Estimate	Variance in Dollars
Fiscal Year Project No.		Project Title / Description	Specific	(591.93)	21,300.00		19571.56	21,300.00	-1728.44 784.85
Ţ	1040 DAN REGIONAL REG REPAIR-04	REPAIR REGIONAL REGULATORS - ALL COUNTIES	Specific	3,023.09	2,150.32		2935.17	2 150 32	784.85
40 12107	040.PTON.Concrete Saw	Stihl portable concrete saw for Princeton	Specific	(87.92)			2300.11	6 789 46	-122.87
40.12107		Stihl portable concrete saw for Princeton	Specific	6,866.28			6666 59		-122.87
1-	- 1	Buckner Ln System improvernerus, install 800' - 2" PE, Retire farm tap regulator	Specific	(199.69)			11535.21		[]
	040.PAD.Buckner Ln Improve	REGULATOR PARTS AND INSPECTIONS - B.G.	Specific	(350.61)	24.922.80		11535.21	24,922.80	
2004 40.12109		REGULATOR PARTS AND INSPECTIONS - B.G.	Specific	0 10B 79			2047.46		-22875.34
2005 40.12109		IRFGULATOR PARTS AND INSPECTION - RUSS /FRK.	Specific	(61.33)			2047.46		
40.1211		REGULATOR PARTS AND INSPECTION - RUSS./FRK.	Specific	4 605.22			4471.28		
		IRFGULATORPARTS AND INSPECTIONS - GLASGOW	Specific	(133.94)			4471.28	1	
40.12111		REGULATORPARTS AND INSPECTIONS - GLASGOW	Snacific	11.263.06			10935.49		
40.12121		REGULATOR PARTS AND INSPECTIONS - HOPKINSVILLE	Sherific	(327.57)			10935.49		10, 10801-
2004 40.12112 2005 40 13113	040.2736 HOP REG PARTS/INSPEC	REGULATOR PARTS AND INSPECTIONS - HOPKINSVILLE	Specific	25,581.26		7137.27	24837.27		
		RETIRE 875' OF 3" STEEL AND INSTALL1400' OF 4" PE	Specific	(743.99)					-
40.12114		RETIRE 875' OF 3" STEEL AND INSTALL1400' OF 4" PE	Specific	(1,879.08)		(10,752.16)			-10752.16
40.12115		Install 800' - 2" P.E along Bell Ave tor P & L Kaliway	Specific	452.92					
2005 40.12115	040.PAD.Bell Ave Main Ext	Install 800' - 2" P.E along Bell Ave for F & L Naiway	Specific	3,644.57		10097	3538.57		
40.12118	040.PAD.Shady Grove Improve	Install 250' - 2' PE from Snauy Grove district reg to a farm tap reg/refire far	Specific	(106.00)					
40.12118	040.PAD.Shady Grove Improve	Install 200 - 2 PE (10)(1 0)(aug) 0(000 aug) (10) - 2 PE (10)(1 0) (10) (10) (10) (10) (10) (10)	Specific	21,771.90					
40.12119	040.PTON.Boiler - Fredonia	Correctional Facility/ Quarry Red Sta/ Fredonia/ New boiler	Specific	(53/.53) 6 873 61	7 900 00	-1274.84			-1274.84
40.12119		INSTALL 1100' OF 2" PE ON SHELLY'S PLACE	Specific	(108 45)					-1274.84
40.1212		INSTALL 1100' OF 2" PE ON SHELLY'S PLACE	Specific	4 202 62					
40.1212		700' - 2" PE for seven new commercial customers/ New Holt Rd II	Specific	(122.23)					2/749-
	1040. PAD. New Holt Rd Rev Ext II	700' - 2" PE for seven new commercial customers/ New Holt Rd II	Snecific	13,171.24					
40 12127	040.2609.FURNITRE FOR GO	FURNITURE FOR VP TECH SVC OFFICE	Specific	(383.06)	15,223.00	-2434.82		117 671 00	-1587.85
40.12122		FURNITURE FOR TECH SVC UFFILE	Specific	119,560.37					
40.12123		Over haul Bon Harbor compressor engine	Specific	(3,477.22)					
40.12123	040.STO.Bon Harbor Comp Engine	Over haul bon Harbor compressor engine	Specific	1,704.31					
2004 40.12124	040.PAD.Mayfield Rd improve	Making two tile-backs it out use, main to Mayfield rd (125 maop) line, Lower press	Specific	(49.5/					
2005 40.12124	040.PAD.Mayfield Rd improve		Specific	9,695.06			9413.1		3941.41
2004 40.12125	040.0B0 HAYDEN RU. 2"	INSTALLING 2 7 E VOID NEW SCHOOL HAYDEN RD.	Specific	201.30					
2005 40.12125		INSTALETON 2 CERTINAL HOSPITAL	Specific	3,133.07					
2004 40.12126		FEM INSTALLATION @ GREENVIEW HOSPITAL	Specific	3 566 12					- 1
2005 40.12126		INSTALL 300' 2" PE SPRINGHURST LANE	Specific	(103 71)					
2004 40.12127	040.0BO.SPKINGHURST LANK	INSTALL 300' 2" PE SPRINGHURST LANE	Specific	20 082 45		5137.62			-513/.62
12121.04 CUU2		Repair leakage on N'ville/Elk 10"	Specific	(584.07		Ϋ́			
2004 40.12120 2005 A0 12128			Specific	3,500.34					
2003 40.12129	040.0B0.BRIARWOOD HICKORY LANE	INSTALL 1450' OF 2" PE	Specific	(101.80)			4 3330.34		
2005 40.12129	040.0B0.BRIARWOOD HICKORY LANE		Specific	21,125.72					
2004 40.12131	040.STO.Electro Fushion Boxes	_	Specific	14.41	20,151,00	4 -14144.22	2 10822.02	2 24,966.24	-14144.22
2005 40.12131		Capture capital costs associated with leak punpointing	Specific	(324.17	-				
2004 40.12132		Capture capital costs associated with leak punpointing	Specific	3,894.58					
2000 40.12132	Indo 2636 PDA'S FOR OBO SERVICE	3 PDA'S FOR OWENSBORD TOWN OPERALORS	Specific	(113.27					
2005 40.12134	1 040.2636.PDA'S FOR OBO SERVICE	3 PDA'S FOR OWENSBORO TOWN UPERATURS	Specific	19,490.66	5 16,333.05			1 16 333.05	2590.76
2004 40.12135	5 040. PTON. Fredonia Replacements	Replace main (@ Uorrorh Streets and Crider Streets	Specific	(566.8					ľ
2005 40.12135	5 040.PTON.Fredonia Replacements	Replace main (a Duiton Sireets and Street Sireets and Street Sireets and Street Sireets and Street Sireets and Streets and Streets Sireets and Streets Sireets Sir	Specific	31,241.0					
2004 40.12136	5 040.0BO.WALNUT SI. KEPLACEMENT	INVERTALL 1300 2 FE WALNUT ST	Specific	14 833 30					_
2005 40.12136		RETIRE 1212 FT. OF 4" BARE - SMALLHOUSE RD.	Specific	11,000,00					φ
2004 40.1213/		T	Snecific	3,023.0		55 -94.38	38 2935.17	3,029,55	-34.30 24.30
2003 40.1213/			Specific	(87.92)	2) 3,029.55				
2004 40.1213C		PURCHASE CHOPSAW FOR C&M	Specific	5,858.3					3799.15
2004 40.12139	1	Install 770' - 2" PE/ Retire 1,281' - 2" Bare/ Bachusburg Au Nepracements	Specific	(170.3					
2005 40.1213									

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Ise Period Forecasted Period							1000 1000	
Type of Filing:XOnginal Updated vvv workoaner Reference NoIs): KPSCDR-2 Item 16b ATT	Functional and Specific Projects					Witness Kespolisiule.	ć	
11		Functional of Snectic Project	Actual Cost in Referenced Fiscal Year	Original P&N Estimate	Variance In Dollars	Total Actual Project Cost	Total P&N Cost Estimate	Variance in Dollars
riscal Year Project No.	Project Title / Description	Specific	15,340.05	16,667.00	-1773.09		16,667.00	-1773.09
2004 40.1214 040. BGR. AMBASSADOR DR. EXT	850 FT. OF 2" PE - AMBASSADOK UK. EXI B.G.	Specific	(446.14)	16,667.00	60.6771-			162.8
	850 F1. OF 2" PE - AWBASSADON DN. DN. D	Specific	51,634.18	49,969.68	162.8	50132.48	49,969.68	162.8
	to capture capital costs associated with specific boot regulator replacement cos	Specific	107.106,1)	49,303.00	-421.42			-421.42
40.12141		Specific	1120 401	4 444.00	421.42	4022.58		421.42
2004 40.12142 040.BGR.UIFFERENTIAL TESTENS		Specific	10 175 81	13.070.00	-3190.14			-3190.14
40.12142		Specific	(295,95)	13,070.00	-3190.14			-3190.14
40.12143		Specific	39,165.66	1,467.79	14386.24			14385.24
2005 40. 12 143 040. DOI NOT A REPORT		Specific	(23,311.63)	1,467.79				
2004 40.12 14 040.PAD.Olivet Ch Rd Relocate		Specific	150,644.56	51,200.00		1454445.1		
2004 40.12145 040.SHV.LAW.EAGLE LAKE RELO		Specific	(5,199.46)	51,200.00		1		1
40.12145		Specific	188.32)			-		1 1
2006 40.12145 U4U.SHV.LAW.EAGLE LANE NELOO	INSTALL 475' OF 2" PE TO SRVE 5 LOTS	Snecific	(96.41)	3,506.07	-287.45	3218.62	3,506.07	-287.45
2004 40. 12140 040.000.000.000		Specific	12,516.41					
40, 12147		Specific	(364.02)					
	730' - 4" P.E along Mayneld-Well upulls ru to 	Specific	9,018.13					
40.12148	INSTALL 1306 OF 2 TE 10 SERVE 22 LOT	Specific	(202.29)					-1063.27
40.12148		Specific	105 0/	1 085.17				
40.12149	Install 140' - 2" P.E down McBith Drive for two	Specific	4 619.06	5,200.19	-715.47			-715.47
40.12149		Specific	(134.34)					-115.41
2004 140.1215 040.0B0.WOODCREST/SONOMA		Specific	1,759.62			1708.44	4,526.00	-2017.30
40.12151		Specific	(51.18)					-179.82
2005 40.12151 040.DAN.FOUNTAINE VIEW-FOSTER	IEK INSTALL 200 VE 2 VE IN CONTRACTOR	Specific	3,059.15 (79 AR)	3,150.00	-179.82			-179.82
		Specific	3 793 44					
2005 40.12152 040.CAM.PDA - LEAN SUIVET		Specific	(110.33)					
2004 40.12133 040.CAM.01 102 1000000		Snecific	1,350.41				3,295.66	
2004 40.12154 040.MAY.Mayfield Purchase Sta	Regulator Replacement - Mitield Purchase Station	Specific	(39.27)		7			
	Regulator Keplacement - Mitlelu Fulcilase Station	Specific	1,336.75					
40.12155	400 F1. OF 2 FE EX1 HWY 31W - FRANKLIN	Specific	(38.88)					
40.12155	HP RFI OCATE 300' OF 4" HIGH PRESURE STEEL ON WALKER LANE	Specific	(675,62)					
2004 40.12156 040.SHV.LAW.WALKEN LIVE 31	HP RELOCATE 300' OF 4" HIGH PRESURE STEEL ON WALKER LANE	Specific	84.124.88					
40.12130	ITY PARTS&LABOR 2004 REG. INSPECTIONS	Specific	(1,773.94				4 49,993.68	
2005 40.12159 040.0BO.REG.STATION INTEGRITY		Specific	521.48		-378.69	9 506.31		-378.69
40.1216		Specific	(15.17)					-
40.1216		Specific	1,662.87					
40.12161		Specific	7 867 95			7 7639.12		1
2005 40.12161 U4U.CAWLEED.INAILENTININ		Shecific	(228.83					'
2004 40.12102 040.0B0.5TH & LOCUST RPLMT	- INSTALL 250' 2" PE, RETIRE 380' 8" STL,& 200' 5" CAST IRUN	Specific	11,266.02	15,250.00		10938.37	7 15,250.00	431163
T	LIGHT INSTALL FENCING AND LIGHTS AT THE WAREHOUSE	Specific	(327.65		4311.63			
		Specific	34,213.88					
2004 40.12166 040.SHV.CLOVERBROOK FARMS SI	ISSI INSTALL 1/00 UF 2 - 600 OF 4 AND 64 SERVICES	Specific	1,835.20	31,4/5,00		2920.28		
40.12166	IS SI INSTALL 1100 OI 2 - 000 SI	Specific	27.117'7					
	INSTALL 450' OF 2" AND 9 SERVICES	Specific	11 076 35	28.075.00	0 -16998.65		5 28,075.00	16998.65
2005 40.1216/ 040.5HV.90151 044411 11	INSTALL 2400' OF 2" AND 41 SERVICES	Specific	3.691.15					
	INSTALL 1250' OF 2" AND 25 SERVICES	Snarific	8.639.65					
2004 40.12103 040.017.000 MILL SI		Specific	24,361.23				22 24,800.00	33.66
1		Specific	5,265.67					
_	PURCHASE NEW LINE LOCATOR FOR TOWN OF EXAMPLE	Specific	(153.14)	4) 5,146.19		9756.99	18,786.00	0 -9029.01
40.12173		Specific	10,049.21					
2004 40.12174 040.BGR.HOP.BED FOR DUMP TKK		Specific	17.767					
40.121/4								

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Original Undated Froged Title / Description Anolosis, KeysCork-2 Item 16b ATT Froged Title / Description Anolosis, KeysCork-2 Item 16b ATT Froged Title / Description Anolosis, KeysCork-2 Item 16b ATT Froged Title / Description Anolosis, KeysCork-2 Item 16b ATT WATER ST, RETIREMERPLC. eloSioW Anolosis, KeysCork-2 Item 16b ATT WATER ST, RETIREMERPLC. eloSioW Anolosis, KeysCork-2 Item 16b ATT WATER ST, RETIREMERPLC. eloSioW Anolosis, KeysCork-2 Item 16b ATT WATER ST, RETIREMERPLC. eloSioW Anolosis, River, REND, LOGAN 2 Item 300 F1 OF 2* PE - MINUTERS COOSSING VA Anolosis, River, REND, LOGAN 4102 F1 OF 2* PE - MINUTERS COOSSING VA Anolosis, River, REND, LOGAN 4102 F1 OF 2* PE - MINUTERS COOSSING VA Anolosis, River, REND, LOGAN 4105 F1 OF 2* PE - MINUTERS COOSSING VA Anolosis, River, REND, LONG 2000 F1 OF 2* PE - MINUTERS COOSSING VA Anolosis, River, REND, LONG 2000 F1 OF 2* PE - MINUTERS COOSSING VA Anolosis, River, REND, LONG 2000 F1 OF 2* PE - MINUTERS COOSSING VA Anolosis, River, REND, LONG 2000 F2 PE - MINUTERS COOSSING VA Anolosis, River, REND, LONG 2000 F2 PE - MINUTERS COOSSING VA Anoo	Lot of the light of t									
		XOriginalUpdatedKewseu erence No(s).: KPSCDR-2 Item 16b ATT	inctional and Specific Projects				^	Vitness Respons	11	
		11		Functional or	Actual Cost in Referenced	Original P&N	Variance In Dollars	Total Actual Project Cost	Total P&N Cost Estimate	Variance in Dollars
		Project No	Project Title / Description	Specific Project	FISCAL TEAL		-2716.66		47,903.00	-2716.66
		ALAD 10125 DAD RGR GI S WATER ST. REPLC.	ATER. ST. RETIRE/REPLC GLASGOW	Specific	(1 353.54)	47,903.00	-2716.66	4		
		040.BGR.GLS.WATER ST. REPLC.		Specific	1,026.33	2,704.00	-1707.52			
		40,12176 040.BGR.AUBURN.HOGAN 2' pe		Specific	(29.85)	2,704.00	-1707.52			1
		40.12176 040.BGR.AUBURN.HOGAN 2' pe	00 F1. UF 2" PE EXT FIUGAIN AVE AUDUMA 200 FT OF AIL DE LUINITEDS OPOSSING IV-A - B G	Specific	4,169.62	23,330.00	-15584.58		1	
		40.12177 040.BGR.HUNTERS CROSSING IV-A	10 FL. OF Z. FE - HOM LEVA ON COMPANY OF A - B.G.	Specific	3,575.80	23,330.00	1100.4900.1-			
		40.12177 040.BGR.HUNTERS CROSSING IV-A	10 FT. OF 2 FE - RUNTERY OVOCING TO BE A POWLING GREEN	Specific	16,876.37	17,5/5,00	34.0011-			
		40.12178 040.BGR.ASHMORE PK.II-A	162 FT. OF 2' FE - ASI INOLE 11-A - BOWLING GREEN	Specific	(490.82)	00.676,71	1103.45			
		40.12178 040.BGR.ASHMORE PK.II-A	162 F L. OF 2 F L - FOU MOUSE STORE AND LANDING - B.G.	Specific	14,961.69	15,895.00	-1468.45			
		40.12179 040.BGR.RIVEK BENU LNUG.	050 FT OF 2" PE - RIVER BEND LANDING - B.G.	Specific	(435.14)	10,330.00 B 057 00	1 67			
		40.12179 040.BGK.RIVER BENU LINUG.	100 FT_0F_2" PE - TALBOTT PL_IV - B.G.	Specific	9,221.UZ	8 957 00	1.67			
		40.1218 040.BGK.IALBOTT PL. IV - B		Snecific	27,808.71	29,205.00	-2205.06			
(171) (171) </td <td></td> <td>40.12181 040.BGR.SUTHERLAND FARMS II-A</td> <td>4</td> <td>Specific</td> <td>(808.77)</td> <td></td> <td>-2205.06</td> <td></td> <td></td> <td></td>		40.12181 040.BGR.SUTHERLAND FARMS II-A	4	Specific	(808.77)		-2205.06			
No. No. <td></td> <td>40.12181 040.BGR.SUTHERLAND FARMS II-A</td> <td>-</td> <td>Specific</td> <td>13,562.42</td> <td></td> <td></td> <td></td> <td></td> <td></td>		40.12181 040.BGR.SUTHERLAND FARMS II-A	-	Specific	13,562.42					
Name Control C	NEXT Constraint Constraint <td>40.12182 040.BGR.NORTHRIDGE II</td> <td>FNTWOOD PL</td> <td>Specific</td> <td>73,039.43</td> <td></td> <td></td> <td></td> <td></td> <td></td>	40.12182 040.BGR.NORTHRIDGE II	FNTWOOD PL	Specific	73,039.43					
	Rivers Description Secretion Secretion <th< td=""><td>40.12184 040.BGR.BRENTWOOD PL - B.G.</td><td>ENTWOOD PL</td><td>Specific</td><td>(17,011.23)</td><td></td><td></td><td></td><td></td><td></td></th<>	40.12184 040.BGR.BRENTWOOD PL - B.G.	ENTWOOD PL	Specific	(17,011.23)					
Ond SD: Normsend Features Description 25.0101 26.0103 26.0101 26.0103 26.0101 26.0103 26.0033 26.0033 26.0033 26.0033 26.0033 26.0033 26.0033 26.0033 26.0033 26.0033 26.0033 26.0033 <th26.0033< th=""> 26.0033 26</th26.0033<>	ORDER Control Control Control	40.12184 040.BGR.BRENTWOOD PL - B.G.		Specific	985.12					1
Section Statistic field of the sectis sectis sectis section Statistic field of the section Statistic	Construction Construction<	040.S1 U.Kirkwood 6" Leak	kenair i eakage on Mads/K'wd 6" 9011400	Specific	(CG-02)					
000000000000000000000000000000000000	Control Control <t< td=""><td>40.12185 040.51.0.KIrkwood b Leak</td><td>NSTALL 1000' OF 2" PE</td><td>Specific</td><td>22,343.00</td><td></td><td></td><td></td><td></td><td></td></t<>	40.12185 040.51.0.KIrkwood b Leak	NSTALL 1000' OF 2" PE	Specific	22,343.00					
Orders: Description Description <thdescription< th=""> <thdescription< th=""> <th< td=""><td>Construction Description Solution Solution</td><td>40.12180 1040.0BO.HALL 31. NEI DOCEMENT</td><td></td><td>Specific</td><td>74 705 13</td><td></td><td></td><td></td><td></td><td></td></th<></thdescription<></thdescription<>	Construction Description Solution	40.12180 1040.0BO.HALL 31. NEI DOCEMENT		Specific	74 705 13					
OutSus Prediction Transmission Standing	Out Description Standing <	40. 12.160 040.000.1 mtc 01.1	abor to assist in Pipel	Snecific	5,531.92					
Gato NVL MM GARDER PH1 NETAL 3200 07 2 FE FON THE GAMERAS Seedle (a) (a) (a) (b) (a) (a) (a) (a) (a) (a) (a) (a) (a) (a	Standing	40.12187 040.Sto Pipeline Integrity	Purchase materials and labor to assist in Pipeline integrity Wariagenteru	Specific	29,898.93					
Glob Sit/LWI GARDENS RPFIOL Simplify and the standard	Indextry/Model Reaction Standing Association Standing Association Standing Standing<	40.12191 040.SHV.LAW.GARDENS PH I	NSTALL 3240' OF 2" PE FOR THE GARDENS - LBURG	Specific	(874.29)					
District Specific Ligit Signal Control with a source and strate in the source and strate and strate and strate in the source and strate and strate in the source and	Construction Struction	040.SHV.LAW.GARDENS PH I	NSTALL 3240' OF 2" PE FUK THE GARDEINS - LUGING	Specific	26,970.97					
Off Object Specific Interact	Hold SHATTAR PROJECT Constant Constraints Specific Trian (17, 61) Specific Trian (17, 61) Trian (040.SHV.LAW.GARDENS APPRUACH	NSTALL 3000 OF 4 LET ON THE GARDENS	Specific	(784.41)					
Multistie Multistie <t< td=""><td>Benelle Spenile <t< td=""><td>040.SHV.LAVV.GARDENS AFFROACT</td><td></td><td>Specific</td><td>14,400.20</td><td></td><td>_</td><td></td><td></td><td></td></t<></td></t<>	Benelle Spenile Spenile <t< td=""><td>040.SHV.LAVV.GARDENS AFFROACT</td><td></td><td>Specific</td><td>14,400.20</td><td></td><td>_</td><td></td><td></td><td></td></t<>	040.SHV.LAVV.GARDENS AFFROACT		Specific	14,400.20		_			
Constraint Chynolic Fredrich Chynolic Fredri Chynolic Fredri Chyn	Constraint Constra	40. 12 130 040.0001 70 000 0 000 000 000 000 000 000 00	CHANGING OVER FARMTAPS	Snarifin	852.73			Ì		
01/22 04/2000 1/54/161 92/47/00 1/54/161 92/2000 22/24/161 92/2000 22/24/161 90/21/261 44/27/100 1/54/161 90/21/261 44/27/100 1/54/161 90/21/261 44/27/100 1/24/200 22/24/161 90/21/261 44/27/100 2/24/201	01/21 01/21 <th< td=""><td>40.12198 040.0BO.FARMTAP PROJECT</td><td>CHANGING OVER FARMTAPS</td><td>Specific</td><td>53,848.08</td><td></td><td></td><td></td><td></td><td></td></th<>	40.12198 040.0BO.FARMTAP PROJECT	CHANGING OVER FARMTAPS	Specific	53,848.08					
at at< at< at< at< at< at< at< at<<	Grant Description Scheller 15:50:50 20:44:70 Scheller 50:00:10 47:57:00 20:44:4 50:00:10 47:57:00 20:44:4 50:00:10 47:57:00 20:45:16 46:57:00 20:45:16 46:57:00 20:45:16 46:57:00 20:45:16 46:57:00 20:47:11 60:02:10 47:57:00 20:47:11 60:02:10 47:57:00 20:77:11 60:02:10 47:57:00 20:77:11 60:02:10 77:70:11 75:70:10 75:70:10 <	40.122 040.2609.MV-90 UPGRADE TO W2K	UPGRADE MV-90	Specific	(1,551.45)					
0.12201 0.00 BKR old Hrildin REPLU. 0.00 EK Hold REPLU.	0.12201 0.0058 Koll Mich RFPUC Section 3.55 (0) 3.67 (0) 3.66 (0) 3.55 (0) 3.67 (0) 3.66 (0) 3.67 (0) 3.66 (0) 3.67 (0) 3.66 (0) 3.67 (0) 3.66 (0) 3.67 (0)<	40.122 040.2609.MV-90 UPGRADE TO W2K	NT - ROM	Specific	51,530.52		5204.84			
40 12221 000 DNN WELDER-CONCRETE SAW Specific 20771 802.291 8350.00 30771 8042.201 8350.00 30771 8042.201 8350.00 30771 8042.00 8350.00 30771 8042.00 8350.00 30771 8042.00 8350.00 30771 8040.00 8350.00 30771 8040.00 8350.00 30771 8040.00 8350.00 30771 8040.00 8350.00 30771 8040.00 8350.00 30771 8040.00 8350.00 30771 8040.00 8350.00 8450.00 8350.00 8450.00 8350.00 8450.00 8350.00 8450.00 8350.00 8450.00 8350.00 8450.00 8356.60 52.43.99 800.00 3161.00 3365.60 52.43.99 100.00 100.	01/220 000 bit Witcher 037/1 06/22/2 03/1	40.12201 040.BGR.600 BLK.HIGH KEPLC	BOU BLA. FIGHT 91. ACH DISCHART - BOWLING GREEN	Specific	(1,498.68		F0.F020			
1.2020 Control Manuel Decision 217.06 liston 277.06 liston 276.00 liston 276.0	Multical and 12202 Multical bolow WELDER-YON/RETE SAW Specific Sec 14:00 2,70:30 6,150:00 2,70:31 6,150:00 2,70:31 6,150:00 2,70:31 6,150:00 2,70:31 6,150:00 2,70:30 6,150:00 2,70:30 6,150:00 2,70:30 6,10:00 2,70:30 6,10:00 2,70:30 6,10:00 2,70:30 6,10:00 2,70:30 6,10:00 2,70:30 6,10:00 2,70:30 6,10:00 2,70:30 6,10:00 2,70:30 6,10:00 2,70:30 6,10:00 2,70:00	40.12201 040.BGR.BUU BLA HIGH REFLO	BOBCAT WELDER AND PROTABLE CONCRETE SAW	Specific	0,203.13		-307.71			
and constrained and constr	Answer Second (122d) Approximation (122d) Second (122d) Second (40.12202 040.DAN.WEEDLITCONCRETE SAW	BOBCAT WELDER AND PROTABLE CONCRETE SAW	Specific	2.761.95		2170.81			
doi:12.03 log DAN TOOLS SC TECHNOLM LOCATORS MON PROBES FOR york the PARTEN Control How with the PARTEN How with the PARTEN </td <td>G0.12230 PAG0 MM TOOLS-CP TECHNICIAN LUCATORS FOR DAWILE AND SHELBY/ULE Specific 6.589.15 7.600.00 90.34 6589.56 7.600.00 0.12241 PAG0MM LCATORS-PMLLE SNLE CUCATORS FOR DAWILLE AND SHELBY/ULE Specific 1193.49 7.600.00 -90.34 6559.66 7.600.00 0.12241 PAG0MM LCATORS-PMLLE SNLE CUCATORS FOR DAWILLE AND SHELBY/ULE Specific 1193.45 7.600.00 -30.34 6559.66 7.600.00 0.12241 PAG0MM LCATORS-PMLLE SNLE ENSI 60.10 NE FOR EACH TOWN Specific 134.7 9.600.00 -345.46 5.224.98 -5.24.98 -5.226.99 -5.224.98 -5.224.98 -5.224.98 -5.224.98 -5.224.98 -5.224.98 -5.224.98</td> <td>40.12203 040.DAN. TOOLS-CP TECHNICIAN</td> <td>LOCATOR AND PROBES FOR CP TECHNICIAN</td> <td>Specific</td> <td>5,558.86</td> <td></td> <td>2170.81</td> <td></td> <td></td> <td></td>	G0.12230 PAG0 MM TOOLS-CP TECHNICIAN LUCATORS FOR DAWILE AND SHELBY/ULE Specific 6.589.15 7.600.00 90.34 6589.56 7.600.00 0.12241 PAG0MM LCATORS-PMLLE SNLE CUCATORS FOR DAWILLE AND SHELBY/ULE Specific 1193.49 7.600.00 -90.34 6559.66 7.600.00 0.12241 PAG0MM LCATORS-PMLLE SNLE CUCATORS FOR DAWILLE AND SHELBY/ULE Specific 1193.45 7.600.00 -30.34 6559.66 7.600.00 0.12241 PAG0MM LCATORS-PMLLE SNLE ENSI 60.10 NE FOR EACH TOWN Specific 134.7 9.600.00 -345.46 5.224.98 -5.24.98 -5.226.99 -5.224.98 -5.224.98 -5.224.98 -5.224.98 -5.224.98 -5.224.98 -5.224.98	40.12203 040.DAN. TOOLS-CP TECHNICIAN	LOCATOR AND PROBES FOR CP TECHNICIAN	Specific	5,558.86		2170.81			
0.12204 Idea DAN LOCATORS- DN LES WILLE LOCATORS FOR DNNILLE AND SHELP YILLE Common Sheeting Specifie (199, 49) 7,600.00 -340.34 9.600.00 -300.00	and Specific (199, 40) 7 (600, 00)	40.12203 040.DAN.TOOLS-CP TECHNICIAN	LOCATOR AND PROBES FOR CP LECHNICIAN	Specific	6,859.15		-940.34			
40.12204 040.DMNLENDLE EUCK TORS-DVLLE EUCK TORS-DVLLE <td>40.1220 040.DNN SENSI GOLD - 3 REGION Sensitie 9.872.46 9.800.00 -7.146B 9.860.00 - 40.1226 040.DNN SENSI GOLD - 3 REGION SENSI GOLD ONE FOR EACH TOWN Sensitie 9.872.46 9.800.00 -7.146B 555.34 9.600.00 40.1226 040.DNN SENSI GOLD - 3 REGION SENSI GOLD ONE FOR EACH TOWN SENSI GOLD - 3 REGION 5.743.89 -1668.52 3.55.46 5.224.98 - 5.243.98 - 5.243.98 - 5.243.98 - 5.243.98 - 5.243.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.58 5.224.98 - 5.224.98 - 5.224.98 - 5.256.48 5.500.00 5.36.57 5.515.7 315.57 315.57 315.57 315.57 315.57 315.57 315.57 315.57</td> <td>40.12204 040.DAN.LOCATORS-DVILLE-SVILLE</td> <td>LOCATORS FOR DANVILLE AND SHELD I VILLE</td> <td>Specific</td> <td>(199.49</td> <td></td> <td></td> <td></td> <td></td> <td></td>	40.1220 040.DNN SENSI GOLD - 3 REGION Sensitie 9.872.46 9.800.00 -7.146B 9.860.00 - 40.1226 040.DNN SENSI GOLD - 3 REGION SENSI GOLD ONE FOR EACH TOWN Sensitie 9.872.46 9.800.00 -7.146B 555.34 9.600.00 40.1226 040.DNN SENSI GOLD - 3 REGION SENSI GOLD ONE FOR EACH TOWN SENSI GOLD - 3 REGION 5.743.89 -1668.52 3.55.46 5.224.98 - 5.243.98 - 5.243.98 - 5.243.98 - 5.243.98 - 5.243.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.98 - 5.224.58 5.224.98 - 5.224.98 - 5.224.98 - 5.256.48 5.500.00 5.36.57 5.515.7 315.57 315.57 315.57 315.57 315.57 315.57 315.57 315.57	40.12204 040.DAN.LOCATORS-DVILLE-SVILLE	LOCATORS FOR DANVILLE AND SHELD I VILLE	Specific	(199.49					
0.17205 040.UMA SINITY of the control of	0.1221b 0.000M SENSI OUD-3 REGION SENSI GOLD ONE FOR EACH TOWN 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 5.224.98 7.666.52 3.366.46 5.224.98 7.666.52 3.366.46 5.224.98 7.22000 5.224.98 7.666.52 3.366.46 5.224.98 7.260.00 5.224.98 7.260.00 5.224.98 7.260.00 5.224.98 7.22000 5.224.98 7.260.00 5.224.98 7.260.00 5.224.98 7.260.00 5.224.98 7.260.00 5.224.98 7.260.00 5.224.98 7.2200.00 5.224.98 7.2200.00 5.224.98 7.2200.00 5.224.98 7.2200.00 5.224.98 7.2200.00 5.224.98 7.2200.00 5.224.98 7.2200.00 5.224.98 7.2200.00 5.224.98 7.2200.00 5.224.98 7.266.00 7.266.01 7.266.01 7.266.01 7.266.01 7.266.01 7.266.01 7.266.01 7.266.01 7.26	40.12204 040.DAN.LOCATORS-DVILLE-SVILLE	SENSI GOI D'ONE FOR EACH TOWN	Specific	9,8/2.46					
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Odd SHV EH-5 MUELLER TAP EQUIP ETA MUELTER TAP EXIT ETA MUELTER TAP EXIT <theta exit<="" muelter="" tap="" th=""> ETA MUELTER TA</theta>	Image: Instant and the instantand and the instant and the instant and the instant and t		EH-5 MUELLER TAPPING EQUIPMENT	Specific	1,902.63					
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0.0.12216 0.40.0B0.BANK ST. Instruct and ST. <thinstremand and="" st.<="" th=""> <thinstruct and="" st.<="" th=""></thinstruct></thinstremand>	0.0.12216 0.40.0BO BANK ST. Instruct and ST. <thinstremanife st.<="" th=""> <thinstruct and="" st.<="" th=""></thinstruct></thinstremanife>	40.12216 040.0B0.BANK ST.	INSIALL 245 UF Z FE	Specific	(116.95					
Algebra Specific 10.13219 0.00.PADJ Intercory Streev Ext. 200 - 2" F E along Hickory St for Robert Florence Specific 10.058.36 -285.16 9783.2 10.068.36 -285.16 9783.2 10.068.36 -285.16 9783.2 10.068.36 -285.16 9783.2 10.068.36 -285.16 9783.2 10.068.36 -285.16 9783.2 10.068.36 -285.16 9783.2 10.068.36 -285.16 9783.2 10.068.36 -285.16 9783.2 10.068.36 -285.16 9783.2 10.068.36 -285.15 9783.2 10.068.36 -285.15 2691.32 -2691.32 2691.32 -2691.32 2691.32 -2691.32 2691.32 -2691.32 2691.32 -2691.32 2691.32 -2691.32 2691.30 -2691.32 2691.30 -2691.32 2691.30 -2691.32 2691.30 -2691.32 2691.30 -2691.32 2691.30 -2691.32 2691.30 -2691.32 2691.30 -2691.32 2691.32 -2691.32 2691.32 -2691.32 2691.32 -2691.32 2691.32 -2691.32 <t< td=""><td>On 172219 Doug PAD Intervort New Ext Z00 - 2" F E along Hickory St for Robert Florence Specific (141.32) (141.32) (141.33) (141.33) (141.33) (141.33) (141.33) (1068.36) (1068.36) (10.68.36) <th< td=""><td>40.12216 040.0B0.BANK ST.</td><td>INSTALL 243 OF 2 TC</td><td>Specific</td><td>3,149.15</td><td>_</td><td></td><td></td><td></td><td></td></th<></td></t<>	On 172219 Doug PAD Intervort New Ext Z00 - 2" F E along Hickory St for Robert Florence Specific (141.32) (141.32) (141.33) (141.33) (141.33) (141.33) (141.33) (1068.36) (1068.36) (10.68.36) <th< td=""><td>40.12216 040.0B0.BANK ST.</td><td>INSTALL 243 OF 2 TC</td><td>Specific</td><td>3,149.15</td><td>_</td><td></td><td></td><td></td><td></td></th<>	40.12216 040.0B0.BANK ST.	INSTALL 243 OF 2 TC	Specific	3,149.15	_				
Condent Condent <t< td=""><td>On 0.1221 Out UNUMENT Descrite User Name Specific User Name Specific User Name Specific Specific User Name Specific Specific</td><td>40.12219 040.PAD.Hickory St Rev Ext</td><td>200 - 2 1 1. Elevery Street Florence</td><td>Specific</td><td>10 076 25</td><td></td><td>_</td><td></td><td></td><td></td></t<>	On 0.1221 Out UNUMENT Descrite User Name Specific User Name Specific User Name Specific Specific User Name Specific	40.12219 040.PAD.Hickory St Rev Ext	200 - 2 1 1. Elevery Street Florence	Specific	10 076 25		_			
Of Log 2000 Cliffic LOCATORS PURCHASE 2 LINE LOCATORS PURCHASE 2 LINE LOCATORS 2681.52 411.56 2269.94 2,681.52 0.1222 00000 Cliffic LOCATORS Install 500' - 2" P. E for new commercial development/ Keith English/ Tyree Rd Specific 2,681.52 411.56 2269.94 2,681.52 40.12221 040. PAD. Tyree Rd Rev Ext Install 500' - 2" P. E for new commercial development/ Keith English/ Tyree Rd Specific 10,487.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 85,000.00 -3418.74 10182.26 85,000.00 -3418.74 10182.26 85,000.00 -3418.74 10182.26 85,000.00 -3418.74 10182.26 85,000.00 -3418.74 10182.26 85,000.00 -3418.74 10182.26 85,000.00	10.122 Own OBOLINE LOCATORS PURCHASE 2 LINE LOCATORS PURCHASE 2 LINE LOCATORS 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2269.94 2681.52 -411.56 2361.20 -411.56 2361.20 -411.56 2361.10 -411.56 2361.10 -411.56 2361.10 -411.56 2361.10 -411.56 2361.00 -411.56 2361.00 -413.61.10 -413.61.10 -413.61.10 -413.61.10 -413.61.10 -413.61.10 -413.61.10 -413.56 433.61.00 -413.56 433.61.00 -413.56 43	40.12219 040.PAU.HICKUIY SI NEV EXI 40.12229 040.0R0.1 INF LOCATORS	PURCHASE 2 LINE LOCATORS	Specific	(293.05					
10.7227 10.70.75 (66.00) 2,681.52 411.58 2269.94 2,61.32 40.12221 1040.PAD.Tyree Rd Rev Ext Install 500' - 2" P.E for new commercial development/ Keith English/ Tyree Rd Specific (66.00) 2,681.52 411.58 2269.94 2,651.32 40.12221 1040.PAD.Tyree Rd Rev Ext Install 500' - 2" P.E for new commercial development/ Keith English/ Tyree Rd Specific 10,487.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 <td>17.221 040. PAD. Tyree Rd Rev Ext Install 500' - 2" P.E for new commercial development Keith English' Tyree Rd Specific (68.00) 2,681.52 -411.58 2269.34 2,681.52 40. 172271 040. PAD. Tyree Rd Rev Ext Install 500' - 2" P.E for new commercial development/Keith English' Tyree Rd Specific 10,487.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74</td> <td>40.1222 040.000.51115 50000000</td> <td>PURCHASE 2 LINE LOCATORS</td> <td>Specific</td> <td>2.337.94</td> <td></td> <td></td> <td></td> <td></td> <td></td>	17.221 040. PAD. Tyree Rd Rev Ext Install 500' - 2" P.E for new commercial development Keith English' Tyree Rd Specific (68.00) 2,681.52 -411.58 2269.34 2,681.52 40. 172271 040. PAD. Tyree Rd Rev Ext Install 500' - 2" P.E for new commercial development/Keith English' Tyree Rd Specific 10,487.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74 10182.26 13,601.00 -3418.74	40.1222 040.000.51115 50000000	PURCHASE 2 LINE LOCATORS	Specific	2.337.94					
40.12221 Install 500' - 2" P.E for new commercial development/ Neutri Englishing 40.12271 10,487.26 13,601.00 -3418.74 10182.26 13,601.00 - 3,601.00 -3418.74 10182.26 13,601.00 - 3,601.00 - 3,601.00 - 3,418.74 10182.26 13,601.00 - 3,601.00 - 3,601.00 - 3,618.74 10182.26 13,601.00 - 3,601.00 - 3,618.74 10182.26 13,601.00 - 3,601.00 - 3,618.74 10182.26 13,601.00 - 3,601.00 - 3,601.00 - 3,618.74 10182.26 13,601.00 - 3,601.00 - 2,419.58 85,000.00 - 2,419.56 85,000.00 - 2,419.56 </td <td>40.12221 Install 500* 2" P.E for new commercial development/ return Englisher 1 yee Nu Specific 10,487.26 13,601.00 -3418.74 10182.26 13,601.00 -3419.58 85,600.00 -3419.56 85,600.00 -3419.56 85,600.00 -3419.56 85,600.20 13,600.00 -24</td> <td>40.1224</td> <td>Install 500' - 2" P.E for new commercial development/ Keith English' Lyree Ko</td> <td>Snecific</td> <td>(68.00</td> <td></td> <td></td> <td></td> <td></td> <td></td>	40.12221 Install 500* 2" P.E for new commercial development/ return Englisher 1 yee Nu Specific 10,487.26 13,601.00 -3418.74 10182.26 13,601.00 -3419.58 85,600.00 -3419.56 85,600.00 -3419.56 85,600.00 -3419.56 85,600.20 13,600.00 -24	40.1224	Install 500' - 2" P.E for new commercial development/ Keith English' Lyree Ko	Snecific	(68.00					
40.17223 1040.STO.St.Ch. Comp Pipe Ck Val Installing 8" Check Valve in Discharge Nun Disectific (305.00) 13.601.00 -3418.74 10182.221 13.601.00 40.12223 040.STO.St.Ch. Comp Pipe Ck Val Installing 8" Check Valve valve at Bon Harbor Storage Field Specific 85,000.00 -2419.58 82580.42 85,000.00 40.12223 040.STO.St.Ch. Comp Pipe CK Val Instance val advining 8" rights/wav at Bon Harbor Storage Field Specific 85,054.08 85,000.00 -2419.58 82580.42 85,000.00	40.17223 1040.STO. St. Ch Comp Pipe Ck Val Installing 8" Check Valve in Discharge Run Discretific (305.00) 13.601.00 -3418.74 10182.2Pl 13.601.00 40.12223 040.STO. St. Ch Comp Pipe Ck Val Installing 8" Check Valve in Discharge Run 5pecific (305.00) 13.601.00 -3419.56 85,000.00 -3419.56 85,000.00 -3419.56 85,000.00 -3419.56 85,000.00 -3419.56 85,000.00 -3419.56 85,000.00 40.500.00 -2419.56 85,000.00 -3419.56 85,000	40.12221	Install 500' - 2" P.E for new commercial development/ Keith English/ Tyree rou	Specific	10,487.26					
40.12223 040.STO.St.Ch Comp Pipe CK Val Installing 97 Check Value Instantion Providence	40.12223 040.STO.St.Ch Comp Pipe Ck Val Installing 9° Check Vaive In Discreting 7 with and additional 8° right-of-way at Bon Harbor Storage Field Specific 85,054.08 85,000.00 -2419.59 02,000.42 04,000.00 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59 -2419.59	40.12223	Installing 8" Check Valve in Discharge Kun	Specific	(305.0					
	040.STO - Land and R/W Pur. Purchase Property and auditorial of the second seco	40.12223	Installing 8" Check Valve III Uiscitarye rvuri	Specific	85,054.0					

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Data:_____Base Period _____Forecasted Period

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Type of Filing: X_ Original ____ Updated ____ Revised

Witness Responsible: R. Cook

			Functional or	Actual Cost in Referenced	Original P&N	Variance In Dollars	Total Actual Protect Cost	Total P&N Cost Estimate	Variance in Dollars
		Project Title / Description	Specific Project	Fiscal Year	Estimate	01101 011058	R2580.42	85.000.00	-2419.58
	Project No.	at Bon Harbor Storage	Specific	(2,4/3.66)	89,000.00	5014.7	26814.2	20,900.00	5914.2
	40.12225	RIAL PARK	Specific	10,926.00		5914.2	26814.2		5914.2
	- 1	INSTALL 3000' OF 4" PE FOR NORTH INDUSTRIAL PARK	Specific	10,000.14	R0 487 30	-31.87	89455.52		-31.87
	1	DEPLACE 6" STI WITH 1280' OF 4" PE	Specific	00,400,70	80 AB7 30	-31.87	89455.52		-31.87
		DEPIACE ASTL WITH 1280' OF 4" PE	Specific	1,000.03	00 000 3	4332.61			4332.61
		IL OCATOR - DITCH WITCH - REPLCAEMENT	Specific	8,704.00	200000	4337.61			4332.61
			Specific	(GZ.787)	2,030.00	A6589.26			46589.26
	40.12229	- 8	Specific	131,582.47	41,212,14	16580 76			46589.26
	40.1223	ι ΈΦ	Specific	(43,780.49)	41,212,14 5 500 00	17510 10			17519.19
	40.1223		Specific	23,203.0Z	0,000.00	10101			-1944.03
		Replace "page farm taps in rieducina	Specific	68,723.69	68,669.00	-1344.00			-1944.03
	Γ	Bowling Green Phone System	Specific	(1,998.72)	68,669.00	-1244.U3			6102.74
	40 12233	Bowling Green Phone System	Specific	76,991.99		6102.74			6102 74
	40.12234	Owensboro Phone system	Specific	(2,220.25)		P102.74			-1917.01
One II GRO SNE FERENCE Constraint Semalto Grando Grando <thgrando< th=""> <thgrando< th=""></thgrando<></thgrando<>	40.12234		Specific	68,723.71		10.1181-	201273000		-1917.01
On IT TERN REPLACIENT Description Control Contr	40.12235		Specific	(1,998.72)	68,642.00	10.1181-			-1640.74
Optimized Control (FFL) (Control (FFL) (Control (FFL)) (Contro (FFL)) (Control (FFL)) (Contro (FFL)) (Control (FFL)) (40.12235	OWENSBORU SERVICE CENTER FROME STOLEN	Specific	6,630.09	8,078.00	-1040./4			-1640.74
One of Free Merit		REPLACE 4 I KUNS	Specific	(192.83)	8,078.00				-6678.68
Ond BRF Comment Name		KEPLACE 4 LI KUNS	Specific	7,811.50					-6678.68
0.00000000000000000000000000000000000	040.BGR.MOORMAN/BON AIRE RET	MOORMAN LN / BON AIRE REG. STA. NETIMENT - B.G.	Specific	(227.18)					11932.1
One Dist synthetic with the first of the process region of the proces region of the pro	040.BGR.MOORMAN/BON AIRE RET	MOORMAN LN / BON AIKE KEG. 31A. NETINAMENT 2000	Specific	71,059.75					11932.1
$ \begin{array}{c} \label{constraint} \mbox{field} \mbo$	040.BGR.31W&BROADWAY REPLC	BROADWAY AVE & HWY 31 DIFA33 NELEC B.C.	Specific	(2,066.65)					4391.63
100 6054 (100 Bit VAMMS REPLC 1100 Bit X AMMS REPLC 1100 Bit X AMMS REPLC 2006 field 2016 field 217.00 227.66 (17)	040.BGR.31W&BROADWAY REPLC	BRUADWAY AVE & HWT 31 BIT A00 MILES. SUC	Specific	74,809.07					-4391.63
Include Construction Strend Constrend Construction Strend Constru	040.BGR.1100 BLK.ADAMS REPLC	1100 BLK. OF ADAMIS REFLACEMENT - BOWING GREEN	Specific	(2,175.70)		0.1504-			-5580.93
0.12242 0.00 6614 4400 M KENTON REPLACEMENT DOWING GREEN Specific 0.01 300 0.02 300 0.02 300 0.01 300 0.02 300	040.BGR.1100 BLK.ADAMS REPLC	1100 BLK. UP AUMINIA NET ENGEMENT - BOWI ING GREEN	Specific	30,636.07					-5580.93
0.1224 0.0006K-400 BKK FERENCZERMEN - BOWING GREEN Specific 3/148 FB 4/161 FB	40.12242 040.BGR.1400 BLK. KENTON REPLC	1400 BLA OF ACATON REPLACEMENT - BOWLING GREEN	Specific	(NU.188)					-8582.34
40 Steelle 34/36/30 46	40.12242 040.BGR.1400 BLK. KENI ON REPLC	EAU BLA OF ALM DAMAGE COMMANDER AND A BOWLING GREEN	Specific	30,148.48					-8582.34
Class OnderSteel Bit VurtierFit: Outset Fit Seretic Ser	40.12243 040.BGR.600 BLK URCHARD REPLO	CONDIENT OF ORCHARD ST REPLACEMENT - BOWLING GREEN	Specific	4,440.10	AO BA2 OD				4987.87
0.1244 0.006864-000 BK (NTI THEFL). 0.002800 (Setting) 6451/15 30.028.00 0.1244 0.006864-000 BK (NTI THEFL). 0.00 BK/ CF EXTTON ST. REPACEMENT - BOWING GREEN Specific 10.028.00 6459.17 50.028.00 6451/15 30.028.00 6451/15 30.028.00 6451/15 30.028.00 6451/15 30.028.00 6451/15 30.028.00 6451/15 30.028.00 6451/15 30.028.00 6451/15 30.028.00 6451/15 30.028.00 37.028.00 57.28 30.028.00 67.372.29 30.028.00 37.68.39 36.75.28 30.000 27.82 30.028.00 37.68.39 36.75.28 30.028.00 37.68.39 36.75.28 30.028.00 37.68.39 36.75.28 30.000 37.68.30 36.75.83 30.028.00 37.68.39 37.68.39 36.75.83 30.028.00 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30 37.68.30	40.12243 040.BGR.600 BLK ORCHARU REPLU	CONDERVOR FAST 10TH REPLACEMENT - BOWLING GREEN	Specific	29,793.20	40,042.00				4987.87
0.1244 ONDERS - 200 BK FATTOR FREE ALCEMENT - BOWING GREEN Specific 0.42/14 0.000 BK FATTOR FREE ALCEMENT - BOWING GREEN 0.0007 ZI 0.0007 ZI <th0.0007 th="" zi<=""> 0.00007 ZI <th0.0007 td="" zi<=""><td>40.12244</td><td>EAD BLOCK OF FAST 10TH REPLACEMENT - BOWLING GREEN</td><td>Specific</td><td>10,030,01</td><td></td><td></td><td></td><td></td><td>16589.75</td></th0.0007></th0.0007>	40.12244	EAD BLOCK OF FAST 10TH REPLACEMENT - BOWLING GREEN	Specific	10,030,01					16589.75
Offstage Observed Stream Stream <thstream< th=""> Stream <thstrea< td=""><td></td><td>14600 BL OF KENTON ST. REPLACEMENT - BOWLING GREEN</td><td>Specific</td><td>14 202 41</td><td></td><td>-</td><td></td><td></td><td>16589.75</td></thstrea<></thstream<>		14600 BL OF KENTON ST. REPLACEMENT - BOWLING GREEN	Specific	14 202 41		-			16589.75
of 1224 00015K1:000 LKK 1004K OFE 1111 REPLC 1004K OFE 1113 REPLC 1004K OFE 1113 REPLC 1004K OFE 1113 REPLC 1004K OFE 1113 REPLC 1004K OFE 1114 REPLC 1114 REPLC <td< td=""><td>40.12245</td><td>14600 BLIX OF KENTON ST. REPLACEMENT - BOWLING GREEN</td><td>Specific</td><td>11,330.41</td><td></td><td>1</td><td></td><td></td><td></td></td<>	40.12245	14600 BLIX OF KENTON ST. REPLACEMENT - BOWLING GREEN	Specific	11,330.41		1			
0.1226 0.00 BKC, FLITH, REPLACEMENT - BOWING GREEN Specific an 1224 0.00 BKC, FLITH, REPLACEMENT - BOWING GREEN Specific an 1224 0.00 BKC, FLITH, REPLACEMENT - BOWING GREEN Specific an 1224 0.00 BKC, FLITH, REPLACEMENT - BOWING GREEN Specific an 1224 0.00 BKC, FLITH, REPLACEMENT - BOWING GREEN Specific an 1224 0.00 BKC, FLITH, REPLACEMENT - BOWING GREEN Specific an 1224 0.00 BKC, FLITH, REPLACEMENT - BOWING GREEN Specific an 1224 0.00 BKC, FLITH, REPLACEMENT - BOWING GREEN Specific an 1224 0.00 BKC, FLITH, REPLACEMENT - BOWING GREEN Specific an 1234 0.00 BKC, FLITH, REPLACEMENT - BOWING GREEN Specific an 1234 0.00 BKC, FLITH, REPLACEMENT - BOWING GREEN Specific an 1234 0.00 BKC, GREENUT ST, REPLACEMENT - BOWING GREEN Specific an 1234 0.00 BKC, GREENUT ST, REPLACEMENT - BOWING GREEN Specific an 1234 0.00 BKC, GREENUT ST, REPLACEMENT - BOWING GREEN Specific an 1301 St, 35	40.12245	1100 BLK OF F 11TH. REPLACEMENT - BOWLING GREEN	Specific	13,203.10					
40 12254 000 BGR 2000 KK F 1111 RELUC 200 BLK OF EAST 1111, RELUCEMENT - BOWING GREEN Definition 2165 State 1105 State 305 State 1105 State 305 State 1105 State	40.12246		Specific	37 679 75					
40.12247 OND BIGR, 200 BIK, CHESTIVIT ST. REPLACEMENT - BOWING GREEN Parentic (1224) 1150.56 60448.45 659500 1150.55 60448.45 659500 40.12247 0010 BIGR, 200 BIK, CHESTIVIT ST. REPLACEMENT - BOWING GREEN Specific 7, 564.14 65, 599.00 3371.95 55, 599.00 2378.15 55, 599.00 2378.15 55, 599.00 2378.15 55, 599.00 2378.15 55, 599.00 2378.15 55, 599.00 2378.15 55, 599.00 2378.15 55, 599.00 2378.15 55, 599.00 2370.15 55, 599.00 2370.15 55, 599.00 2370.15 55, 599.00 2370.15 55, 599.00 2370.15 55, 599.00 2370.15 55, 599.00 2370.15 55, 599.00 2370.15 55, 599.00 3370.13 55, 599.40 55, 599.40 55, 599.40 55, 599.40 550.41 550.41 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43 550.43	2005 40.12246 1040.BGK.100 BLA E. 1111 1151 EQ.		Specific	11 095 64					
0.1224 000 BRC FLEETUC 400 - 600 BLX CHESTNUT ST. REFLC 400 - 600 BLX CHESTNUT ST. REFLC 600 - 1150 L55 655 - 105 65 - 559 - 500 228 - 501 33701 - 90 355 - 500 238 - 500	19221.04		Chacific	57 884 41					
Dispension Constraint Stratule Stratule Stra	40.1224/	400 - 600 BLK. CHESTNUT ST. REPLACEMENT - BOWLING GREEN	Specific	10 564 04					
Montexent constraint Instrait and constraint Security of the second Security of the second </td <td></td> <td>400 - 600 BLK. CHESTNUT ST. REPLACEMENT - BOWLING GREEN</td> <td>Specific</td> <td>34 601.05</td> <td></td> <td></td> <td></td> <td></td> <td></td>		400 - 600 BLK. CHESTNUT ST. REPLACEMENT - BOWLING GREEN	Specific	34 601.05					
Weitzeit Outschreite Specific 54,788,30 66,693,00 35195,45 66,693,00 35195,45 66,693,00 35195,45 66,693,00 35195,45 66,693,00 35195,45 66,693,00 35195,45 66,693,00 35195,45 66,693,00 35195,45 66,693,00 3519,43 3511,13 2,751,31 3511,17 2,751,31 3511,17 2,751,31 3511,17 2,751,31 3511,17 2,751,31 3511,17 2,751,31 3511,17 2,751,31 3511,17 2,751,31 3511,17 2,751,31 3511,17 2,751,31 3511,17 2,751,31 3511,31 2,751,31 3511,31 2,751,31 3511,31 2,751,31 3511,31 2,751,31 3511,31 2,751,31 3511,31 2,751,31 <		INSTALL 850' OF 4" AND 1400' OF 2" WISERVICES	Snerific	90.668)					
0.1257 0.01 35105.451 55105.451 55105.451 55105.451 55105.451 55105.451 55105.451 55105.451 55105.451 55105.451 55105.451 5500.433 3010.33 310.317 2760.33 310.317 2760.33 310.317 2760.33 310.411 300.317.33 310.411 300.317.33 310.411 300.317.33 310.411 300.317.33 310.411 300.317.31 310.411 370.33 310.411 370.33 310.411 370.33 310.411 370.431 3500.433 300.643 300.613 300.7200	40.12243	INSTALL 850' OF 4" AND 1400' OF 2" W/SERVICES	Snecific	54,788.90					
Outcomess MinOutsourcing Outsourcing of meters 0017251 00013251 00013251 001323 1510341 1768321 3466.19 3509.43 0017252 000 MAD FOVDERT REPLACE DE LETING GROUND BED REPLACE DE LETING GROUND BED 3466.19 3509.43 3466.19 3509.43 0017252 000 MAD FOVDERT RNSTALL 300.21" FE 27 FE for four commercial lots located off Lakola Dri n Cadiz Specific 1,301.29 3466.49 3509.43 3466.19 3509.43 360.510 35169.43	40.12243	Outsourcing of meters	Snecific	(1,593.45					
40.1225 040.MG. POWDERLY GROUND BED REPLACE DEPLETING GROUND BEU 3.509.43 3.509.43 2.32.4 3496.19 3.509.43 40.1225 040.MG. POWDERLY GROUND BED INSTALL 300.2 "PE 2 2 313.17 2.761.31 313.17 2.761.31 </td <td>40.12251 40.12251</td> <td></td> <td>Specific</td> <td>15,768.92</td> <td></td> <td>7</td> <td></td> <td></td> <td>-</td>	40.12251 40.12251		Specific	15,768.92		7			-
40.12253 040.MAD.HUDSON PARK DR. INSTALL 300 2° FE Activation Specific 2,164,30 3,509,43 2,24 3313,17 2,761,31 2,761,30 2,761,30 2,761,30 2,761,30 2,761,30 2,761,30 2,761,30 2,761,30 2,761,30 2,761,30 2,761,30 2,761,30 2,700,00 2,71 2,	40.12252		Specific	1,301.29					
040.MAD HUDSON PARK DR. NBTALL Ust TAL Ust TAD Ust TAD Ust TAD	40.12253		Specific	2,184.90					
Ddo. PTON Pheonx Dr. Rev Ext Install 450 - 2° FL for four commercial tots located of Lakota Dr in Cadiz Specific (99.24) 2./61.31 30.10.11 30.11.11 30.10.11 30.11.11	40.12253		Specific	3,412.41					
Odo: PTON Pheroms, Dr. Rev Ext. Install 430 - 2° PLE TON Commenciation construction Specific 14,50,00 -26,430,60 -750,64 36679,36 45,430,60 -750,00 967,31 7700,00 967,31 7700,00 977,19 867,31 7700,00 967,31 967,30 963,31 0700,00 963,31 0700,00 963,31 0700,00 </td <td>40.12254</td> <td>Install 450' - 2" P.E for four commercial juts located on Larved or in occur</td> <td>Specific</td> <td>(99.24</td> <td></td> <td></td> <td></td> <td></td> <td></td>	40.12254	Install 450' - 2" P.E for four commercial juts located on Larved or in occur	Specific	(99.24					
Instract Include RepLACE BSU UT Constrained Specific 39,888.60 47,40.00 57,60.43 3667.956 45,430.60 7700.00 040.0BC 24TH, ST. REPLACE BSU ST. WITH 4" PE Specific (1,158.64) 45,430.60 677.01 967.01 7700.00 978.19 8677.91 7700.00 040.0BC 24TH, ST. REPLACE BSU ST. WITH 4" PE Specific (1,158.64) 45,430.60 677.01 967.19 7700.00 040.0BC 24TH, ST. REPLACE BSU ST. WITH 4" PE Specific (1,158.64) 45,430.61 7700.00 978.19 8678.19 7700.00 040.0BC 24TH, ST. TVO MUELLER H-17010 ND-BLO VALVE CHANGER - CVILLE & SVILLE Specific 4,589.23 7,700.00 978.19 8678.19 7,700.00 040.SEN MUELLER VALVE CHANGER TVO MULELER H-17010 ND-BLO VALVE CHANGER - CVILLE & SVILLE Specific 4,589.24 96.187.00 96.187.00 040.SEN MUELLER VALVE CHANGER TVO MULELER H-17010 ND-BLO VALVE CHANGER - CVILLE & SVILLE Specific 4,589.24 96.187.00 96.187.00 040.SEN MUELLER VALVE CHANGER TVO MULELER VALVE CHANGER	Γ	Install 450' - 2" P.E for four continue data loss rocardo da contra en entre e	Specific	14,584.95					
Data Descrite (1,150,64) Control Contro Control Control <t< td=""><td></td><td></td><td>Specific</td><td>39,838.60</td><td></td><td></td><td></td><td></td><td></td></t<>			Specific	39,838.60					
Idd. OBO E 24TH. ST. Instruction Instruction <thinstruction< t<="" td=""><td>40.12256</td><td>REPLACE 63U SIL. WILLIA LE</td><td>Specific</td><td>(1,158.62</td><td></td><td></td><td></td><td></td><td></td></thinstruction<>	40.12256	REPLACE 63U SIL. WILLIA LE	Specific	(1,158.62					
Iden Sty MIELLER VALVE CHANGER TWO MUCELLER NT/10/10 W: 2010 M: 2010	40.12256	REPLACE 63U SIL. WITH 1 L	Specific	4,088.96	_				978.19
Old Disposition End of the constraint of the constrant of the constraint of the constrant of the constraint of the co	40.12257	TAKO MILET FR H-17010 NO-BLO VALVE CH	Specific	77.886,9		47			
040.269.00 NTANK DISP EAST DISPOSAL OF 12 ODORANT TANKS DABCHIC Viscost of 200 NTANK DISP EAST DISPOSAL OF 12 ODORANT TANKS DISPOSAL OF 10 ODORA	40.12257	DISPOSAL OF 12 ODORANT TANKS	Specific	40,030.46	A 96 187				
Udm.2009. UDMT.NMN. Dist. Vest Disposal OF 10 ODORANT TANKS AND 4 DRUMS AND MISC ITEMS Dependence 58,001:03 98,207.00 - 39763.28 58443.72 98,207.00 040.2609. ODORTANK DISP VEST DISPOSAL OF 10 ODORANT TANKS AND 4 DRUMS AND MISC ITEMS Specific 58,001:03 98,207.00 - 39763.28 58443.72 98,207.00 040.2609. ODORTANK DISP VEST DISPOSAL OF 10 ODORANT TANKS AND AID MISC ITEMS Specific 58,001:03 98,207.00 - 58,470.23 98,207.00 040.2609. ODORTANK DISP VEST DISPOSAL OF 10 ODORANT TANKS AND AIS NIE WIEST Specific (273.49) 98,207.00	40.12258	IDISPOSAL OF 12 ODORANT TANKS	Specific	261.70		1			
1040.2009.0DORTANK DISP WEST DISPOSAL OF 10 ODORANT TANKS AND 4 DRUMS AND MISC ITEMS OF 2023.49) 98,207.00 (98,480.49) 58,170.23 98,207.00 (0.00,00) 0.00,0000 0.00,000 0.00,0000 0.00,0000 0.00,0000 0.0	40.12258	DISPOSAL OF 10 ODORANT TANKS AND 4 DRUMS AND MISC ITEMS	Specific	58 081 93					
1440-2609-ODOPTITATION OF A DESTINATION OF TO ODORANT TANKS AND 4 DRUMS AND MISC II EMS 1 OPERATOR 1 OPERATOR 1		DISPOSAL OF 10 ODORANT TANKS AND 4 DRUMS AND MISC ITEMS	Specific	(273.4		Ľ			_
		DISPOSAL OF 10 ODORANT TANKS AND 4 DRUMS AND MISC HEMS	and a second						

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Data:_____ Base Period _____ Forecasted Period

_Updated ____Revised

Type of Filing: X_ Original

Witness Responsible: R. Cook

Type of Filing: X_ (rt				-	Witness Responsible:	IDIE: R. COUK	
Workpaper Reference No(s).:	No(s).: KPSCDR-2 Item 16b ATT			Actual Cost in					
			Functional or Specific Project	Referenced Fiscal Year	Original P&N Estimate	Variance In Dollars	Total Actual Project Cost	Total P&N Cost Estimate	5 -
Fiscal Protect No		Project Title / Description	Specific Specific	5.203.07	25,319.00	-13397.7	11921.3	25,319.00	- I
1 1000		900 FT. OF 2" PE - COLLEGE ST. REPLC, - FRANKLIN	Specific	6,718.23	25,319.00	-13397.7	11921.3	25,319,00	
2004 40.1220 0	040.BGR.FRK.COLLEGE ST REPLC	900 FT. OF 2" PE - COLLEGE ST. REPLC FRANKLIN	Specific	537.39	25,319.00	(24,781.61)			-6490.33
1		900 FT. OF 2" PE - CULLEGE 31. REPLAC 11201115-11	Specific	6,680.35	18,547.00	6490.33			
1		WEST MADISON & JOHN J. JOHNSON KV REPLC FRANKLIN	Specific	5,3/6.32	18,547,00	(18,507.34)	12,096.33		
T	040.BGR.FRK KV KEPLC W. MAU.	WEST MADISON & JOHN J. JOHNSON KV REPLC FRANKLIN	Specific	95.792.96	8,882.00	-8470.41			
-		RELOCATE FARM TAP	Specific	(8.880.77)	8,882.00	-8470.41			
	DAU.WAD.ISLAND FORD RD.	RELOCATE FARM TAP	Specific	5,280.61	7,518.67	-2391.64		7 218.67	-2391.04
40.12203	lon	Install 1,367' 2" PE	Specific	(153.58)	7,518.67	-2391.64			_
Т	040 MAD. Lakewood Subdivision	Install 1,367' 2" PE	Specific	1,677.44	2,215.41	-586./6			
40.12265	040.MAD.LAKE CHESTER DR.	INSTALL 85' OF 2" PE, KE IIKE KEG. LOUP	Specific	(48.79)	2,215.41	146 676 11)			(16,576,11)
	040.MAD.LAKE CHESTER DR.		Specific	175.89	10,72,00	1100001	12		
40.1227	040.BGR.10TH 3" BARE RET.		Specific	126,426,50	124,011.00	1221.74			
5	040.BGR.NEW OFF, FURNITURE		Specific	101-100	124.817.00	-1521.4			
Т	040.BGR.NEW UFF. FURNITURE	NEW B.G. OFFICE - TRAINING ROON & SERVICE AREA FURNITURE	Specific	(375.10)	124,817.00	-1521.4	123295.6	124,817.00	-1521.4
40.122/2	040.BGR.NEW OFF TRAINING RM.	NEW B.G. OFFICE - TRAINING ROON & SERVICE AREA FURNITURE	Specific	126,426.52	124,817.00	1221.76			
Τ	DAD RGR NEW OFF DECOR & FURN	B.G. NEW OFFICE FURNISHINGS & DECOR	Specific	(387.76)	124,817.00	1221.76			-171.03
40 12273	040.BGR.NEW OFF DECOR & FURN	B.G. NEW OFFICE FURNISHINGS & DECOR	Specific	6,043.64	6,038.90	-1/1.03			
40.12274	040.MAD.FLAMEPACK	PURCHASE 1 FLAMEPACK	Specific	(175.77)	6,038.90	-1/1.U3		57.379.68	-4357
40.12274	040.MAD.FLAMEPACK	PURCHASE 1 FLAMEPACK	Specific	44,967.52	5/,3/9.68				
	040.PTON.ST. CHARLES YZ	INSTALL 12 OUDRIZER @ 31. CHARLES	Specific	8,055.11	00'97'9'00 10 650 63				
40.12275	040.PTON.ST. CHARLES YZ	INSTALL 12 OUDIVELIA STORE EQUIPMENT	Specific	30,509.02	40,039,03				
40.12276	040.0B0.ULTRA SHORE EUUPWENT	PURCHASE ULTRA SHORE EQUIPMENT	Specific	16 234 96	15.463.00		15762.79		299.79
	040.0BU.ULIRA SHUKE EGUILINEIN	Purchase 2 Bushhogs	Specific	(472.17)					
Τ.	040. Sto Bushhog Purchase	Purchase 2 Bushhogs	Specific	16,744.78		-7188.79		1 23,760.00	
1	040.Mea. Tecsvc.Regulators	Regulators for engineered applications	Specific	(173.57)					
Τ	040.Mea.Tecsvc.Regulators	Regulators for engineered applications	Specific	1,067.94		1			1
2006 40.12278	040.Mea.Tecsvc.Regulators	Regulators for engineered apprications	Specific	5,382.76					
2004 40.12279	040.Meas.tcsvc.Detex.Hop.	Detex unit for Honkinsville	Specific	100.001)					
2005 40.12279	040.Meas.tcsvc.Detex.Hup.	INSTALL 2091'2" PE	Specific	(3.238.14)			9 12040.33	3 9,840.34	7199.99
2004 40.1228	040.0BU.STERLING PARK PHASE 2	INSTALL 2091' 2" PE	Snecific	416.85					
2003 40.1220	DAD OBO PI ANTATION PT. UNIT 2	INSTALL 1300' 2" PE	Specific	6,512.06			2 6928.91		
2004 40.12201	040.0BO.PLANTATION PT. UNIT 2	INSTALL 1300' 2" PE	Specific	29,491.90					
2004 40.12282	040.PAD.Area Sys Imp	Part of ongoing effort to replace "bad" farm taps	Specific	(857.72		1324.20			
2005 40.12282	040.PAD.Area Sys Imp	Part of ongoing effort to replace bay rain raps	Specific	6,976.45					
2004 40.12283	040.Meas.Tcssvc.Logan Alum	Install Monney Regulators@ Logan Aluminum	Specific	15,900.47					5623.95
2005 40.12283	040.Meas. I cssvc. Logan Alutit	4 225 - 2" PE revenue extension	Specific	8 897.43		5623.95			
2004 40.12284	1040.PAD.Ascut Duwits LAt	4.225' - 2" PE revenue extension	Shacific	1.519.70					
2005 40.12204	DAD ORD CROSS CREEK PHASE 3		Specific	(44.20)					
40.12285	040.0BO.CROSS CREEK PHASE 3		Specific	4,274.20		162.07.70		20,606.39	39 -16267.29
	040.MAD.CENTER ST.REPLACEMEN	REPLACE 400' 6" SILL VIITH 4" PE	Specific	64.90					
	040.MAD.CENTER ST.REPLACEMEN	T	Specific	4,000.00			34 4401.22		6-
40.12288	040.P1 UN. 1 00IS and Equipment	910 R Locator/ Wmson sight glass kit/ Sensi	Specific	4.089.42				4,043.44	44 40.40
2005 40.12288	1040.P.1.00.10013 and Equipment	Τ	Snecific	2.46	4,043.44		4091.9		-34
2004 40.12203	040 PTON No Blo Valve Changer		Specific	91,354.04		1 -31499.12		99 121,010,11 00 121 016 11	
2003 40.12203	T	Install 2,685' - 2" P.E to replace 2" bare	Specific	(1,837.0	5	_			
2005 40.1229	1	Install 2,685' - 2" P. E to replace 2 Date	Specific	1,714.7			44 5232.14		
2004 40.12291	040.MAY.Commonwealth Ext	BBU - Z P.E LEV EXI TO T. 20.0 Structures and the Discovery of the P.C. A on Commonwealth Drive	Specific	14.116,5	_			e	00 4926.82
2005 40.12291		dou - 2 F.E.IeV exitin 1.237 of 9 commentations and the set of H/P steel	Specific	329,429.00	319,399.00	0 4926.82		ر	
2004 40.12292	T	Install 5000 feet of H/P steel	Specific	12,122,121				27 18,345.00	00
2005 40.12292	040-Sto. HECIA 0 III IE 040 BCD CI S HMY101 RFPI C	HWY 101 REPLC SMITHS GROVE	oheolin						
2004 40.12233									

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Base Period Forecasted Period

Data:_____Base Period _____ Forecasted Period Type of Filing:___X__ Original ____ Updated _____ Revised

Witness Responsible: R. Cook

Type of Filing: X		Euroritonal and Specific Projects				>	Witness Responsible:	ble: R. Cook	
Workpaper Reference No(s).:	e No(s).: KPSCDR-2 Item 165 A1 I			Actual Cost in			-		Variance in
			Functional or Snecific Protect	Referenced Fiscal Year	Original P&N Estimate	Variance In Dollars	Total Actual Project Cost	Estimate	Dollars
			Snacific	(375.97)	18,345.00	-5793.73	12551.27	18,345.00	20101 73
Flujeu Nu.			Sharific	106,137.51	123,528.00	-20191.73	103336.27	00.020,021	201012
T	040.BGK.GLS.HWT101 KETEO		Specific	(2,801.24)	123,528.00	-20191.73	103336.27	123,320.00	-2653 89
40.12295	1040.WEAS.NIKWOOD S INCHASS		Specific	1,817.83	4,445.65	-2653.89	10/1.6/1	4 445.65	-2653.89
40.12295	040.MEAS.Nitwood 0 Nepress		Specific	(26.07)	4,445.65	-2653.89	1/91./0	414-000 at 1 00	395.21
40.12298	040. FAD. Flat I JOHOW FAST CAL	· · · · · · · · · · · · · · · · · · ·	Specific	509.46	911.00	395.21	120001		395.21
2005 40.12298	040. FAU. FIGI FIUNDAR TWO EXT	chael Crouch new righte	Snecific	796.75	911.00		0.20021	22 483 00	-128817
2004 40.123	040. IVIAT. IN SUITION LITTICS LITTICS	ael Crouch new nume	Snecific	21,223.60	33,483.00	-12881.7			-12881.7
2005 40.123	040.NMAT.IN SUILUIT LITINGY LAN		Specific	(622.30)	33,483.00				-8286.55
40.12301	040.BGK.41H&COLLEGE NET ES		Coorific	32 595 89	48,473.00				0700 FF
- 1	040.BGR.41H&CULLEGE REFLY	NG GREEN	Specific	7 590 56	48,473.00				20,0020-
40.12302	040.BGR.WAREHOUSE BINS		opecific	10.065.69	48.473.00				1/ 330.00
	040.BGR.WAREHOUSE BINS		Specific	47 404 47	473.00				1/990.db
40.12303	040.BGR.WELD SHOP LOCKERS		Specific	11,404.11	4 570.00			4,570.00	-2523.12
40 12303	040.BGR.WELD SHOP LOCKERS		Specific	2,107.17	A 570.00				
2004 40 12304	040.DAN.DEER MEADOWS		Specific	(60.29)	4,0/00 00	2066 R		39,023.00	3266.8
2005 40 12304	INAN DEER MEADOWS	INSTALL 1500' OF 2" PE IN DEER WICHDOWD I NOW COMPACE	Specific	42,289.80					
Z003 40. 12305	DAD TEC SVC SCANNER	HP DESIGNJET 815 MFP SCANNEK	Specific	163,431.24				1	
2002 1 40 2002	DAD Sto Compressor Finine	Completing the overhaul of the Bon Harbor Compressor Engine	Specific	(46,885.28)					
2004 40.12306	1040.3to Compressor Engline	Completing the overhaul of the Bon Harbor Compressor Engine	Specific	154,274.08					
2005 40.12300	Udu.Siu Ouitpressu crigina	American meters for 2nd Quarter	Specific	(4,486.81)	116,983.00			10,000.00	25951 48
	aky.icovo.iiicao.ziiaqu.iiicovo	American meters for 2nd Quarter	Specific	155,042.64					
	aky.tcsvs.titeas.ztiuqui trieters	Meters for purchase in 3rd quarter	Sherific	(4.509.16)		25951.48			
2004 40.12309	aky.tcsvs.meas.studu meters	Meters for Dirrchase in 3rd quarter	Coorific	15 650.52					5354 3
2005 40.12309	aky.tcsvs.meas.3rdqtr meters	SERVICE REPLACEMENTS 400 - 900 CHESTNUT - B.G.	openino	61 557 78					_
2004 40.1231	040.BGR.SVC. REPLC CHESTINUT	SERVICE REPLACEMENTS 400 - 900 CHESTNUT - B.G.	Specific	50 172 06				124,153.00	01-11-10-
2005 40.1231	040.BGR.SVC. REPLC CHESTINGT	TEANISEARCH PLASE I - BOWLING GREEN	opecilio	11 430 541	1				4
2004 40.12312	040.BGR.ITA PHASE 1 - B.G.	TRANSPARK PHASE I - BOWLING GREEN	opecilie	58 148 06	1				00.10010-
2005 40.12312	040.BGR.IIA PHASE 1 - B.G.	_	Specific	(1 691 14)	1	-67667.08			
2004 40.12313	040.BGR.IYA PHASE I-A - B.G.	- H	ohening	E0 048 18	1				
40.12313	040.BGR.IYA PHASE I-A - B.G.	- 1	Specific	/37 861 46)					
40.12314	040.CAM.GREENSBURG CUNNECTUR		Specific	02. VVC V					701102
2005 40.12314	040.CAM.GREENSBURG CUNNECTOR		opecific	1123 45	1.477.00				
40.12317	_	-	Specific	1 065 03				4 1,636.23	
40.12317	040.BGR.GLS.PARKVIEW Z		Specific	1 840 81					
2004 40.12318		To bring us into accordance with the Federal Motor Carrier regulations, Affect ho	Specific	1,040,040	5 800.00				-839.18
2005 40.12318	040.PAD.Ratchet Binders	INDUMING AS AND AS AND AS AND AS A TOTS OFF OLD PITMAN RD	Specific	1 001 08		4 -71.34	4 3972.1		
2005 40.12319			Specific	1118 0B					
2004 40.1232		No-blow valve dranger for maynese	Specific	12 004 10	12 200.00			1 12,200.00	
2005 40.1232	040.MAY.No-Blow Valve Changer		Specific	0.050.01		0 946.15			0 940.10
2005 40.12321	040.SHV.PIPE TRAILER	Z PE FILE INVIEW PROPAGATION AND FROM CROSSING TO HWY 62 2" PE	Specific	3,300,61					
2004 40.12323	Γ	INSTALL DUU UF 4. FE FROM ANDERSON CROSSING TO HWY 62 2" PE	Specific	00.40					0 -3303.08
2005 40.12323			Specific	19,000,00					
2004 40.12324	1		Specific	022200		0 88.96			
2005 40.12324	1 040.BGR.MAGNA METER SET		Specific	3,090.01	0011212 U		3005.96	96 2,917.00	
2004 40.12325			Specific	190.041		-79			
2005 40.12325			Specific	100/14					0 -79/6.01
2007 40 12326			Specific	(CF-LFZ'L)		CO C			
			Specific	37,416.14	_				
2007 10 10302		INSTALLING ROUI EKS	Specific	(1,096.25)	9 42,370.00		7096.01		
2000 10 10307	1.		Specific	7,308.5					
2007 40 40 40 40300	10		Specific	(212.56)					
2005 40 12329	T	E RESURFACE SERVICE CENTER FAMING LOT	Specific	53,003./6	6 80,202.07	1021-1021-10	79241.54	54 80,262.67	
2004 10 1033			Specific	26,23/./					
2001 40 1000	Т	RETIRE 593' 10" CI & INSI ALL 280' 9' FE	Specific	6,287.9					_
2002 104 C002	6	950' - 4" P.E/ 425' - 2" P.E for new Lone Vak File Dept.	Specific	4,244.01					77 1381.84
2003 40. 1233	Т	Install 620' - 2" P.E to tie two systems together	Specific	1,788.6	0 4,650.77	1001001 11			
2004 40.12333	C CAD DAD Holt Road Svs (mD	Install 620' – 2" P.E to tie two systems together	Specific	(107.8		_	21-1-1-0 00EB AA	44 9 294 23	
2005 40.12333	1	Install 620' - 2" P.E to tie two systems together	Specific	9,958.44	4 9,294.23	23 04.71			
2006 40.12333	A DAM DAM Diantation Village Ext	2,060' - 2" P.E. Revenue Extension for Mike Falconite/ 34 residential rus							
2000-04-01-02	1								

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Data:_____Base Period _____Forecasted Period Type of Filing:___X__Original _____Updated _____ Revised

Witness Responsible: R. Cook

Table International And the second of the second	Mortsoner Reference No(S).:	e No(s).: KPSCDR-2 Item 16b ATT	Functional and Specific Projects							
Product (1) Product (1) <thproduct (1)<="" th=""> <thproduct (1)<="" th=""></thproduct></thproduct>				Eunctional of	Actual Cost In Referenced	Original P&N	Variance In	Total Actual	Total P&N Cost	Variance in
	Fiscal			Specific Project	Fiscal Year	Estimate	Dollars	Project Cost	Estimate q 294 23	490.81
			Project 11(1e / Description)	Specific	(173.40)	9,294.23	(50/40/6) 706 34	3891.67	4,688.01	-796.34
	2006 40.12334	040. PAD. Plantation Village Ext		Specific	4,009.40	4,000.01 A 688.01	-796.34	3891.67	4,688.01	-796.34
	2004 40.12335	040.0BO.SUMMER WALK	INSTALL 397' 2' PE	Specific	9.109.69	4,909.10	4200.59	9109.69		4200.59
Oncomposition Network Description Description <thdescription< th=""> <thdescripion< th=""> <t< td=""><td>12335</td><td>1040.0BO.SUMMER WALK</td><td>1</td><td>Snecific</td><td>42,801.88</td><td></td><td></td><td>41310.34</td><td></td><td>-229063 01</td></t<></thdescripion<></thdescription<>	12335	1040.0BO.SUMMER WALK	1	Snecific	42,801.88			41310.34		-229063 01
Option (1) Display (1) <thdisplay (1)<="" th=""> <thdisplay (1)<="" th=""></thdisplay></thdisplay>	10.12330	DAD ORO BOOTH AVE. REPLACEMENT		Specific	(1,491.54)		-22	41310.34	17 150 00	2491.9
Glocking Element (Construct	2005 40 12337	040.0B0.B00TH AVE. REPLACEMENT		Specific	10,244.20			19641.9	17.150.00	2491.9
Option Description Standing Automation Automation </td <td>2004 40.12338</td> <td>040.CAM.LEB.HENDRICKSON DR</td> <td></td> <td>Specific</td> <td>9,397.70</td> <td></td> <td>111</td> <td>21.901.90</td> <td>17,150.00</td> <td>4,751.90</td>	2004 40.12338	040.CAM.LEB.HENDRICKSON DR		Specific	9,397.70		111	21.901.90	17,150.00	4,751.90
Optimizer Description Description <thdescription< th=""> <thdescription< th=""> <</thdescription<></thdescription<>	2005 40.12338	040.CAM.LEB.HENDRICKSON DR	INSTALL BOU OF 4. FE AND FARM TAP STATION WIBYPASS	Specific	2,260.00			6505.46	4,909.10	1596.36
Cold Cold <th< td=""><td>2006 40.12338</td><td>040.CAM.LEB.HENDRICKSON DR</td><td>INSTALL 000 OF 4 1 E. W. B. P. M. B. B.</td><td>Specific</td><td>0,000.40</td><td></td><td></td><td>15130.2</td><td>-</td><td>555.2</td></th<>	2006 40.12338	040.CAM.LEB.HENDRICKSON DR	INSTALL 000 OF 4 1 E. W. B. P. M. B.	Specific	0,000.40			15130.2	-	555.2
exist Number US: 10: 10: 11: 10: 12: 12: 10: 12: 12: 10: 12: 12: 10: 12: 12: 10: 12: 12: 12: 10: 12: 12: 12: 12: 12: 12: 12: 12: 12: 12	2005 40.12339	040.meas.tcsvc.Columbia EFM	INSTALL 1250" OF 2" PE FOR 32 LOTS W15 SERVICES	Specific	F 057 05		467.95			467.95
04035/W.MCNT.VXX.FM 04045/W.MCNT.VXX.FM 05203.01 0530.01 0500.01 <t< td=""><td>2005 40.1234</td><td></td><td>INVITALE 1200 01 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 -</td><td>Specific</td><td>16 787 49</td><td></td><td>2162.49</td><td></td><td></td><td>2162.49</td></t<>	2005 40.1234		INVITALE 1200 01 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 -	Specific	16 787 49		2162.49			2162.49
Operation Description Description <thdescription< th=""> <thdescription< th=""> <</thdescription<></thdescription<>	2005 40.12341		INSTALL 1800 CF 2" PE NORTH COUNTRY 4-2 WI5 LS SERVICES	Specific	ER 833 64	93,839,00				4
Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-	2005 40.12342		CLIMBERLAND TRACE SYSTEM INPROV BOWLING GREEN	Specific	26,229,37					-004.34
Option Section 30.351 (S) 30.351 (S) 22.332 (S) <td>2005 40.12344</td> <td></td> <td>purchase of 20' x 20' lot to house the new marion T.B lot</td> <td>Specific</td> <td>(762.84</td> <td></td> <td></td> <td></td> <td>26,130.87</td> <td></td>	2005 40.12344		purchase of 20' x 20' lot to house the new marion T.B lot	Specific	(762.84				26,130.87	
Constraint Specific	2004 40.12343		purchase of 20' x 20' lot to house the new marion 1.B lot	Specific	20,291.00					
Constraint Fifth & CAMPREL Constraint Exercise Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Constraint Exercise Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Constraint Exercise Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Constraint Exercise Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Constraint Fifth & CAMPREL Constraint Fifth & CAMPREL Constraint Fifth & CAMPREL Constraint Fifth & CAMPREL Constraint Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Constraint Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Fifth & CAMPREL Constraint Fifth & CAMPREL Fifth & CAMPREL Fifth & C	2002 1.04 000 2002	DAD RCR HOP 18TH & CAMPBELL	18TH & CAMPBELL BRIDGE REPLC SI. HWY - HUPK	Specific	513.22					[
Xin Stratest, Bin Link Partiale of Interfect of All Latter (Xin Stratest, Bin Link) Partiale of Interfect of All Latter (Xin Stratest, Bin Link) Partiale of Interfect of All Latter (Xin Stratest, Bin Link) Partiale of Interfect of All Latter (Xin Stratest, Bin Link) Specific (Xin Stratest, Bin Link) Speci	2004 40.12340	DAD RGR HOP 18TH & CAMPBELL	18TH & CAMPBELL BRIDGE REPLC ST. HWY - HUPA.	Specific	75,882.24					
Did masterior Berchine Berchine Berchine Secolitic 35,367/3 Total 30,363/3 Total 30,363/3 Did SHV WALUT - ADMR C I MANN REPLACE FOR MULTI-RE Secolitic 35,367/3 Total 30,353/3 Total 30,353/3 Did SHV WALDT - ADMR C I SERV REPLACE FOR MULTI-RE Secolitic 25,367/3 Total 30,353/3 Total 30,353/3 Did SHV WALDT - ADMR C I SERV REPLACE FOR MULTI-RE Secolitic 25,353/3 Total 30,353/3 Total 30,353/3 Did SHV WALDT - ADMR C I SERV REPLACE FOR SECON WALNUT - ADMR WALDT - ADMR WALDR - ADMR WALDT - ADMR WALDR - ADMR WALDT - ADMR WALDR - A	2003 40.12340	1	Purchase of meters for 4th Quarter	Specific	(2,285.91					'
Open Security Security <th< td=""><td>2005 40 12347</td><td>1</td><td>Purchase of meters for 4th Quarter</td><td>Specific</td><td>90,760.30</td><td></td><td></td><td></td><td></td><td></td></th<>	2005 40 12347	1	Purchase of meters for 4th Quarter	Specific	90,760.30					
District Section District Section <thdistrict section<="" th=""> <thdistrict section<="" t<="" td=""><td>2004 40.12348</td><td></td><td>REPLACE 6" CAST IRON WITH 2" PE</td><td></td><td>20,529.73</td><td></td><td>_</td><td></td><td></td><td></td></thdistrict></thdistrict>	2004 40.12348		REPLACE 6" CAST IRON WITH 2" PE		20,529.73		_			
Design MANULI Design MANULI Table State Table State <thtable state<="" th=""></thtable>	2005 40.12348	1	REPLACE 6" CAST IRON WITH 2 FE		53,587.75					
[10] 0405 HINE LOCATOR FETATIN SURF LOCATOR: B. G. Specific 1.7.352, model 1.9.052, model <t< td=""><td>2004 40.12349</td><td></td><td>REFLACE 49 SERVICES ON WAI NIT ADAIR WASHINGTON WHEN REPLACING 6" CAS</td><td></td><td>12,910.20</td><td>_</td><td></td><td></td><td></td><td></td></t<>	2004 40.12349		REFLACE 49 SERVICES ON WAI NIT ADAIR WASHINGTON WHEN REPLACING 6" CAS		12,910.20	_				
Quida BRAT INE COATION HEATH SURFE COATION <td>2005 40.12349</td> <td></td> <td>KEPLAVE 43 SLIVINGEO ON WEATON - B.G.</td> <td></td> <td>101200,1</td> <td></td> <td></td> <td></td> <td></td> <td>-209.28</td>	2005 40.12349		KEPLAVE 43 SLIVINGEO ON WEATON - B.G.		101200,1					-209.28
Ord Differ Specific Sp	2004 40.1235		HEATH SURF LOCK LOCATOR - B.G.	Specific	16 524 35				1 18,025.82	_
Mont Devices The project is on processes belier only. Seperate project (in mistaliation) Specific 123:36.3 123:36.30 130:35.3 23:36.30 130:35.3 23:36.30 130:35.3 33:36.35 133:36.35	2005 40.1235		This project is to purchase boiler only. Seperate project for installation	Specific	5.298.05					3/ 30.01
WMD: Version: Translation	2004 40.12351		This project is to purchase boiler only. Seperate project for installation	Snacific	822.45		5	22		-
With the constraint of the ATP forces meller with case for 23/25/21 Specific of 13/15 is the at at a 23/15 (b) and 2	2005 40.12351	-	This project is to purchase boiler only. Seperate project for installation	Specific	1,725.28					
Model Specific (101 bb) S3:35:00 7:35:00 7:35:05 Piol STO: St. Chartes compressor Downland compressor Downland compressor Specific (101 bb) 23:35:00 7:260:51 Piol STO: St. Chartes compressor Install 17:50 feet of Security Fence at the Bon Habor Storage Feality Specific (12:24:30) 48:47:300 7:260:51 Piol STO: Bon Habor Securit Fence Bowing Green 05 (rowth) Enclored (12:24:30) 48:47:300 7:260:51 Piol STO: Bon Habor Securit Bowing Green 05 (rowth) Bowing Green 05 (rowth) Enclored (12:24:30) 48:47:300 7:260:51 Bowing Green 05 (rowth) Bowing Green 05 (rowth) Bowing Green 05 (rowth) Enclored (12:24:30) 1:37 Bowing Green 05 (rowth) Bowing Green 05 (rowth) Bowing Green 05 (rowth) Enclored (12:24:30) 1:37 Bowing Green 05 (rowth) Bowing Green 05 (rowth) Bowing Green 05 (rowth) Enclored (12:24:30) 1:37 Bowing Green 05 (rowth) Bowing Green 05 (rowth) Bowing Green 05 (rowth) Enclored (12:24:50) Not Budgeed 1:37	ZUUD 40. 12331	Т	Fluk 787 processmeter with case for 23/25/2/	Specific	31,318.49				4 32,313,00	
bioalist Ost Specific At/3 (10)	2003 40, 12332	T	Overhaul compressor	Specific	(910.8)					-7260.51
Mode Specific (1,234,50) Specific Specific Speci	2004 40.12000	Т		Specific	42,446.9					_
Gao STO Bon Harbor Seur Fence Institu 1750 field of Seurity Terrational Lunctional 1,389,375.11 Not Budgeted - 1,373 Bewing Green 05 Growth Func Bewing Green 05 Growth Func Bewing Green 05 Growth Func Functional 2,274,695.00 Not Budgeted -	2003 T0. 12354	T	Install 1750 feet of Security Fence at the Bon Herbor Storane Facility	Specific	(1,234.5)			Ť	Not	ŀ
Bowling Green G Growth Func Bowling Green G Growth Func Bowling Green G Growth Func Bowling Green G Growth Func Bowling Green G Growth Bowling Green G Growth Glasgow G Growth Glasgow G B Kin Growth Hopkinsville G Growth Darville G Growth Darvi	2005 40.12354	T	ce al IIIe poil	Functional	1,369,375.2			1 379 155.5	+	
Bowling Green 05 Growth Func Bowling Green 05 Growth Func Example 10 For Second Example 10 For For Second Example 10 For For Second Example 10 For Second Example 10 For For Second Example 10 For For Second Example 10 For For For For Second Example 10 For	2005 40.12356	Г		Functional	9,780.3			227465	1.0	J
Bowling Green 05 Non Growth Bowling Green 05 Non Growth Eurotional Lunctional Lunctional <thlinciti< th=""> Lunctional <thlincti< td=""><td>2006 40.12356</td><td></td><td>Bowling Green up Growth</td><td>Specific</td><td>2,2/4,695.0</td><td>_</td><td></td><td>2,266,732.3</td><td></td><td>1</td></thlincti<></thlinciti<>	2006 40.12356		Bowling Green up Growth	Specific	2,2/4,695.0	_		2,266,732.3		1
Bowling Green On North Growth Ensemting Green On North Growth Ensemtine Growth Ensemtion Gr	2005 40.12357		Bowling Green 05 Non Growth	Functional	186 173 0		-	186173.0	m	-
Glasgow 05 Growth Glasgow 05 Growth Functional 617,500.65 Not Budgeted - C Glasgow 05 Growth Glasgow 05 Kon Growth Glasgow 05 Kon Growth Evenctional 617,500.65 Not Budgeted -	2006 40.1235	T	Iglasonw 05 Growth	5 peciato	517		- 1	186,224.8	6 Not Budgeted	-
Bill Constraint Classgow 05 Non Growth Eventional 408.56 Not Budgeted - 61 Glassgow 05 Non Growth Glassgow 05 Non Growth Glassgow 05 Non Growth Eventional 408.56 Not Budgeted - 11 Glassgow 05 Non Growth Hopkinsville 05 Growth Hopkinsville 05 Growth Functional 255.27.05 Not Budgeted - 17 Hopkinsville 05 Growth Hopkinsville 05 Growth Hopkinsville 05 Rowth Eurotional 233.761.69 Not Budgeted - 23 Hopkinsville 05 Non Growth Hopkinsville 05 Non Growth Eurotional 233.761.69 Not Budgeted - 23 Hopkinsville 05 Non Growth Darville 05 Growth Eurotional 233.761.69 Not Budgeted - 23 Darville 05 Growth Darville 05 Growth Darville 05 Growth Eurotional 27.3761.89 Not Budgeted - 33 37.61.59 Not Budgeted - - 33 Darville 05 Growth Darville 05 Growth Darville 05 Growth Eurotional 27.3761.89 Not Budgeted	2005 40.1235		Glasgow 05 Growth	Snecific	617.500.6		1 -	617500.6	55 Not Budgeted	
Glassow Gi Non Growth Glassow Gi Non Growth Glassow Gi Non Growth Tofe Mol Budgeted - 1 Hopkinsville 05 Growth Hopkinsville 05 Growth Hopkinsville 05 Growth Functional 652.65 Not Budgeted - 7 Hopkinsville 05 Growth Hopkinsville 05 Growth Hopkinsville 05 Growth Specific 235.765 Not Budgeted - 7 Hopkinsville 05 Non Growth Hopkinsville 05 Non Growth Hopkinsville 05 Non Growth Specific 233.761.59 Not Budgeted - 7 Hopkinsville 05 Non Growth Hopkinsville 05 Non Growth Barville 05 Non Growth Specific 233.761.59 Not Budgeted - 33 Darville 05 Non Growth Darville 05 Non Growth Barville 05 Non Growth Specific 373.761.59 Not Budgeted - 33 Darville 05 Non Growth Darville 05 Non Growth Darville 05 Non Growth Specific 373.761.59 Not Budgeted - 33 Darville 05 Non Growth Darville 05 Non Growth Darville 05 Non Growth Specific 373.751 Not Budgeted - 33	2006 40.1235		Glasgow 05 Non Growth	Functional	408.5			617,909.2	7 Not Budgeteu	<u>.</u>
Hopkinsvile 05 Growth Eurclional 529.570.58 Not Budgeted - 22 Hopkinsvile 05 Growth Hopkinsvile 05 Non Growth Hopkinsvile 05 Non Growth Eurclional 373.761.89 Not Budgeted - 29 Danvile 05 Growth Danvile 05 Growth Danvile 05 Growth Eurclional 373.761.89 Not Budgeted - 33 Danvile 05 Growth Danvile 05 Growth Danvile 05 Growth 298.210.58 Not Budgeted - 33 Danvile 05 Growth Danvile 05 Growth Danvile 05 Growth 298.210.58 Not Budgeted - 33 Danvile 05 Growth Danvile 05 Growth Danvile 05 Growth 298.712.77 Not Budgeted - - - - - - - - - - - - - -<	2005 40.1235	1	Glasgow 05 Non Growth	Specific	156,476.7			157 129 4	1 Not Budgeted	1
40.1236 Hopkinsville OS Growth Hopkinsville OS Non Growth Houdgeted - <td>2005 40.1236</td> <td>Γ</td> <td>Hopkinsville US Growth</td> <td>Functional</td> <td>652.6</td> <td>_</td> <td></td> <td>295270.</td> <td>36 Not Budgeted</td> <td>1</td>	2005 40.1236	Γ	Hopkinsville US Growth	Functional	652.6	_		295270.	36 Not Budgeted	1
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0.1280 040.000 HALENDARY Name Dispective Dispective <thdispective< th=""> Dispective Dispective<</thdispective<>	40. 12482 040.0B0.HALEAT PANK TRASS. 2 40. 12493 040.0B0.ETH.STI CALHOUN 40. 12503 040.0B0.ETH.STI CALHOUN 40. 12503 040.PTON.HWy 22. Rev Ext II 40. 12503 040.PTON.HWy 22. Rev Ext II 40. 12508 040.PDN.Wal-Mart STANFORD 40. 12508 040.PDN.Ken-Bar Boiler Install 40. 1251 040.0B0.RIDGE CREEK 40. 1251 040.0B0.RIDGE CREEK 40. 1251 040.0B0.RIDGE CREEK		sciric	0,055,0	4 610 14	-1856.51	2753.63	4,610.14	-1856.51
40 21280 400.000 bit N = 1 - control 200 bit N = 1 - control 5.830.31 40 12600 0.000 Dit N = 1 - control 200 bit N = 1 - control 5.830.31 40 12600 0.000 Dit N = 1 - control 200 bit N = 1 - control 200 bit N = 1 - control 5.830.31 40 12600 0.00 PM (wr BT FANE) 600 extension in conversion contresion conversion in conversion conversion conversion in solution conversion conversind conversion conversind conversion conversind conversio	40,12233 (40,020 FH, 2) CALTONS 40,12203 (40,04D 2015 REG INSPECTIONS 40,12503 (40,04D 2015 REG INSPECTIONS 40,12503 (40,07N,HW 62 Rev Ext II 40,12508 (40,07N,M-MART STANFORD 40,12508 (40,040 PAD) Ken-Bar Boiler Install 40,12509 (40,080,RIDGE CREEK 40,1251 (40,080,RIDGE CREEK 40,1251 (40,080,RIDGE CREEK 40,1251 (40,080,RIDGE CREEK		BOILIC	20 229 07	20.790.00	-560.93	20229.07	20,790.00	-560.93
And 1250 Ond PNIN-Work Steve Kall Bio Generation for conversion commercial customer (this is fine or war-wain tou) Specific 317.2.1 7.066.00 0.12503 0.40 PNIN-WORK Steve Kall Ints propect is for the installation of bolier at Ken-Bar purchase station Specific 13.273.25 10.106.60 0.12503 0.40 PNIN-WORK MART STANFORD Ints propect is for the installation of bolier at Ken-Bar purchase station Specific 13.273.25 10.106.60 0.12503 0.40 PAD (Ken-Bar Bolier Trail) This propect is for the installation of bolier at Ken-Bar purchase station Specific 13.273.25 17.122 0.12510 0.40 BOS PRINGE CREER INSTALL 1132 Z "FE Specific 13.71.222 17.62 27.04.34 0.12511 0.40 BOS PRINGE CREER INSTALL 1132 Z "FE Specific 13.71.222 17.62 17.222 0.12511 040 BOS PRINGE CREER INSTALL 132 Z "FE Specific 13.71.222 17.222 0.12511 040 BOS PRINGE CREER INSTALL 132 Z "FE Specific 13.72.23 13.72.50 0.12512 040 BOS PRINGE CREER IST 104 INSTAL 120 13.72.23 13.72.2	40, 12502, 040, PTONLAWOY TO THE FILL OF THE PART OF T		acific orific	4.022.12	5,830.31	-1808.19	4022.12	5,830.31	-1808.19
0.1250 Construction Construction <thconstruction< th=""> Construction</thconstruction<>	40,12500 040,DAN WAL-MART STANFORD (012504 040,DAN WAL-MART STANFORD 40,12508 040,PAD,Ken-Bar Boiler Install 40,12509 040,PAD,Ken-Bar Boiler Install 40,1251 040,0BO,RIDGE REEK 40,1251 040,0BO,RIDGE REEK	Je old Vvai-iviait Tibiyi-ievo	acific.	8,172.71	7,066.00	1106.71	8172.71	10,000,00	2086.60
Cold Cold <th< td=""><td>00.12509 0400.PAD.Kern-Barl Boiler Install 00.12509 040.PAD.Kern-Barl Boiler Install 00.12509 040.PAD.Ken-Barl Boiler Install 04.12510 040.0BO.RINGE CREEK 04.12511 040.0BO.SRING RIDGE PARKWAY 04.12511 040.0BO.SRING BILK CENTER REPLC.</td><td></td><td>acific</td><td>13,273.29</td><td>10,186.60</td><td>3086.69</td><td>13273.29</td><td>10,180.60</td><td>5 070 73</td></th<>	00.12509 0400.PAD.Kern-Barl Boiler Install 00.12509 040.PAD.Kern-Barl Boiler Install 00.12509 040.PAD.Ken-Barl Boiler Install 04.12510 040.0BO.RINGE CREEK 04.12511 040.0BO.SRING RIDGE PARKWAY 04.12511 040.0BO.SRING BILK CENTER REPLC.		acific	13,273.29	10,186.60	3086.69	13273.29	10,180.60	5 070 73
at 12508 Goto Pati Ken Bar Boiler Install This protect is for the installation of boiler at Kenholar purchase service Specific 5,966.65 3,776.22 7,204.34 40 12516 640.0B0 RIDGE CREEK Bis RALLBOY ZPE Specific 66,176.23 94,772.23 40 12511 640.0B0 RIDGE RIEK Bis RALLBOY ZPE Specific 86,176.23 94,772.23 40 12511 640.0BG RIODE ARWAY INSTALL 113? Z*PE Specific 86,176.23 94,772.23 40 12513 040.0BG RIOD FIACE 500 BLK CENTER REPLC. 500 BLK 572.125 94,872.03 40 12513 040.0BG RFOOL NAIN TRG LIA 1181.4 RARRISON REPL 1000 FI-0F 2* FE 45.234.00 40 12516 040.0BG RFOOL NAIN TRG LIA NETOLI 750* FE MI RIAL RADOW Specific 45.256.01 457.256.00 40 12516 040.0BG RFOOL NAIN TRG LIA NETOLI 750* FE MI RIAL RADOW Specific 45.261.12 149.107 40 12516 040.0BC REAR NOT REPL 1000 FT-0F 2* FE MI RADOW Specific 45.263.21.25 149.00	40 12500 040.PAD.Ken-Bar Boiler Install 40 12509 040.0BO.RIDGE CREEK 40 12509 040.0BO.SRING RIDGE PARKWAY 40 12511 040.0BO.SRING RIDGE PARKWAY 40 12511 040.0BCR 000 BLK CENTER REPLC.	ise station	ecific	(15.96)	10,186.60	(10,202.56)	13,25/.33	10,100.00 2 765 21	22010.12
40 12503 040.0BO RIDGE CREEK INISTALBBU 2" PE 6.7263 9.717 623 7.203 9.717 623 7.203 9.717 623 7.203 9.717 623 7.203 9.717 623 7.203 9.717 623 7.203 9.717 623 7.203 9.717 623 9.717 633 9.512 633 9.512 633 9.512 633 9.512 633 9.512 633 9.521 256 0.7251 0.7251 0.003 FNV FIARWY XING-CUBH/OS FIE AT FAIRWAY XING ON CLUBHOUSE DRIVE RETIRE 1000 OF 2" FE AT FAIRWAY XING ON CLUBHOUSE DRIVE RETIRE 1000 OF 2" FE AT FAIRWAY XING ON CLUBHOUSE DRIVE RETIRE 1000 OF 2" FE AT FAIRWAY XING ON CLUBHOUSE DRIVE RETIRE 1000 OF 2" FE AT FAIRWAY XING ON CLUBHOUSE DRIVE RETIRE 1000 OF 2" FE AT FAIRWAY XING ON CLUBHOUSE DRIVE RETIRE 1000 OF 2" FE AT FAIRWAY XING ON CLUBHOUSE DRIVE RETIRE 1000 OF 2" FE AT FAIRW	40.12509 040.0BO.RIDGE CREEK 40.1251 040.0BO.SPRING RIDGE PARKWAY 40.1251 040.0BGR.600 BLK. CENTER REPLC.		ecific	5,969.65	3,765.21	2204.44	02408.00	7 204 34	2513.28
40.1251 040.0BO SPRING RIDGE PARKWAY NB.1ALL List of the Law Center FEPLC. Biolut Center ST REPLC. Bioetile Biolity St 200 40.12511 040.0BO SPRING RIDGE PARKWAY IBA HARRISON REG. STA RELOCHOPK. Specific 8,233.31 9,533.00 40.12513 040.0BGR HOP 18 A HARRISON REPL 16114 & HARRISON REG. STA RELOCHOPK. Specific 4,500.41 45,500 40.12513 040.0BGR HOP 18 A HARRISON REPL 16114 & HARRISON REG. STA RELOCHOPK. Specific 4,500.41 45,523.00 40.12513 040.0BGR.HOP 18 A HARRISON REPL 16114 N RELOCATE 4* MAIN Specific 4,500.21 5,521.00 40.12516 040.0BOH WAR DEC PV NSTALL 750 FOR 16 UNITS IN DOGWOOD TRACE PV Specific 4,774.56 31,255.00 40.12519 040.SHV DIGOWOD TRACE PV NSTALL 750 FOR 16 UNITS IN DOGWOOD SIII 47,764.56 31,255.00 40.12514 040.SHV DIGOWOD TRACE PV NSTALL 750 FOR 16 UNITS NI NEOCOX SIII P1 NSTALL 750 FOR 16 UNITS NI NEOCOX SIII P1 149,00 40.12513 040.0SHV MEDONO TRACE PV Specific 5,941.95 5,521.25 40.12521 040.158N MEA	40.1251 040.0BO.SPRING RIDGE PARKWAY 40.12511 040.BGR.600 BLK. CENTER REPLC.		ecific	9,717.62	1,204.34	8154 61	86617.62	94,772.23	-8154.61
40 12511 040 BGR 600 BK CENTER MEPLC. Security control of the MERTISON REG. 517 Rel CL HOPK Security control of the MERTISON REG. 1511 B (171 B) (175 17) 1.125 17	40 12511 040.BGR.600 BLK. CENTER REPLU.		ecific	70.110,00	0 583 00	-1319.69	8263.31	9,583.00	-1319.69
40.12512 1040.BGR.HOP.18 & HARRISON MEC 1911.18 JARRISON MEC 1911.12 JAR 1,125.17 1,191.67 40.12513 040.BGR.HOP.18 & HARRISON MEC 1611.11 & JARRISON MEC 1611.11 & JARRISON MEC 1,191.67 1,191.67 40.12513 040.BGR.HOP.18 & JARRISON REPL 1611.11 & JARRISON MEC 1000 FT.OF 2" PE -FOUNTAIN TRACE IJA Specific 4,827.63 4,527.60 40.12516 040.0BO.HWY 54 RELOCATION RELOCATE 4" MAIN NETAL J.SoU OF 2" PE -FOUNTAIN TRACE IJA Specific 2,690.22 5,225.00 40.12516 040.0BO.HWY 54 RELOCATION RELOCATE 1000 OF 2" PE MINSTALLATION OR CUUBHOUSE DRIVE RETIRE 1000 OF 2" Specific 2,691.75 149.00 40.12521 040.5VS MEAS.ICT EFM EFM installation @ Gemtron Inc. Specific 5,944.96 5,571.25 40.12522 040 TCSVS MEAS.ICT EFM EFM installation @ ICT Specific 5,944.96 5,571.25 40.12522 040 TCSVS MEAS.ICT EFM EFM INSTALLATION @ ICT Specific 1,910.242 80.561.05 40.12522 040 TCSVS MEAS.ICT EFM		Υ. K	ecific	8,203.31	9,000.00	285.41	45609.41	45,324.00	285.41
40 12513 0400 BGR.HOP.18 HARKHON NETCL 10011 ST PERCEND 1125.17 1125.12 125.12 <t< td=""><td>40.12512 040.BGR.HOP.18 & HAKKISON KEG</td><td></td><td>ecific</td><td>19,000,04</td><td>A 512 00</td><td>315.83</td><td></td><td>4,512.00</td><td>315.83</td></t<>	40.12512 040.BGR.HOP.18 & HAKKISON KEG		ecific	19,000,04	A 512 00	315.83		4,512.00	315.83
40.12515 UNUMERATE Control RELOCATE 4" MAIN 40.12515 UNUMERATE RELOCATION RELOCATE 4" MAIN 40.12517 UNUMERATE Strent 2690.22 5.225.00 40.12517 UNUMERATE NUMERATE 31.255.00 31.255.00 40.12517 UNUMERATE NUMERATE 47.764.58 31.255.00 40.12517 UNUMERATE NUMERATE 47.764.58 31.255.00 40.12519 UNUMERATE NUMERATE 49.00 31.255.00 40.12521 UNUMERATE EFM Installation @ Gentron fcm 2.690.22 5.51.25 40.12521 UNUMERATE EFM Installation @ Gentron fcm 2.690.20 5.51.25 40.12522 040.158% MEAS.ICT EFM EFM Installation @ CT Specific 5.944.96 5.571.25 40.12522 040.158% MEAS.ICT EFM EFM Installation @ CT Specific 5.944.96 5.571.25 40.12522 040.150% MEAS.ICT EFM EFM Installation @ CT Specific 7.912.42 9.561.00 40.12523 040.100 NG OL NUMER	40.12513 040.BGR.HOP.18 & HARRISON REFL		ecitic	1 175 17	1.191.67	-66.5		1,191.67	-66.5
40.1251 040.000 Trat. Top Control 77.64.56 31.255.00 40.1251 040.5HV D0GWOOD TRACE P V NRTALL 750° FOR 16 UNITS IN D0GWOOD S III 37.764.56 31.255.00 40.1251 040.5HV D0GWOOD TRACE P V NRTALL 250° OF 2° FE IN MEADOWBROOK S III 145.01 3.361.75 145.00 40.1251 040.5HV D0GWOOD TRACE P V NRTALL 250° OF 2° FE IN MEADOWBROOK S III 145.01 2.361.75 149.00 40.12521 040.5HV D0GWOOD TRACE P V Specific 2.361.75 149.00 40.1252 040.5HV FAIRWY XING-CLUBHOS DR EFM installation @ Gemton Inc. Specific 5.941.96 5.521.25 40.1252 040.1582 040.1582 EFM installation @ Gemton Inc. Specific 5.941.96 5.521.25 40.12522 040.1582 040.1587 Specific 5.941.96 5.521.25 40.12522 040.1587 EFM INSTALLATION @ ICT Specific 5.941.43 18.040.00 40.12522 040.1587 Specific 5.941.43 18.040.00 19.521.25 40.12523 040.1587 Specific 18			acific	2,690,22	5,225.00	-2534.78		5,225.00	-2334.70
And 12510 Odd SHV, RETIRE 1000 OF 2' PE IN MEADOWBROOK S III P1 INSTALL 2500 OF 2'' PE IN MEADOWBROOK S III P1 INSTALL 2500 OF 2'' PE IN MEADOWBROOK S III P1 INSTALL 2500 OF 2'' PE IN MEADOWBROOK S III P1 INSTALL 2500 OF 2'' PE IN MEADOWBROOK S III P1 INSTALL 2500 OF 2'' PE IN MEADOWBROOK S III P1 INSTALL 2500 OF 2'' PE IN MEADOWBROOK S III P1 INSTALL 2500 OF 2'' PE IN FAILWAY XING ON CLUBHOUSE DRIVE RETIRE 1000 OF Specific 2,361,75 149.00 40.12521 040 SHV.FAIRWY XING-CLUBHOS DR RELOCATE 1000 OF 2'' PE AT FAIRWAY XING ON CLUBHOUSE DRIVE RETIRE 1000 OF Specific 5,521.25 5,521.25 40.12522 040 TCSNS MEAS.ICT EFM EFM INSTALLATION @ ICT Specific 5,541.35 727.00 40.12522 040 TCSNS MEAS.ICT EFM INSTALL 300' OF 2'' PE ON SOUTHTOWN ROAD TO O-CHARLIES RESTURANT Specific 16,414.33 18,040.00 40.12522 040 SNOT NETOWING PLOT RETIRE 040.55 540.500' O 2,050.00 2,050.00 40.12525 040 ADAN SOUTHTOWN RD.O-CHARL INTH ACCIDENT IN GREENSBURG-FEB OUTAGE 2,050.00 2,050.00 2,050.00 0,0140.1372.22 0,000 TO 2'' SPECIFIC 1,040.96 49.661.00 0,1572.42 80.661.00 0,1572.42 80.661.00 0,0140.1372.42 80.656.00 <td>40.12310 040.000.1101 31 115500 11500</td> <td>TRACE P V</td> <td>ecific</td> <td>47.764.58</td> <td>31,255.00</td> <td>16509.58</td> <td></td> <td>00.04 1</td> <td>10009.00</td>	40.12310 040.000.1101 31 115500 11500	TRACE P V	ecific	47.764.58	31,255.00	16509.58		00.04 1	10009.00
Molecular Molecular Specific 5,981.36 5,521.25 40.12521 040.5EVF/ERRWY XING-CLUBHOS DR RELOCATE 1000 OF 2" PE AT FAIRWAY XING ON CLUDPHOUSE UNVERTIGATION 5,521.25 40.12521 040.5EVF/ERRWY XING-CLUBHOS DR EFM installation @ Emmon Inc. 5,521.25 40.12522 040.TCSVS.MEAS.ICT EFM EFM installation @ Emmon Inc. 5,521.25 40.12522 040.TCSVS.MEAS.ICT EFM EFM INSTALLATION @ ICT 5,521.25 40.12522 040.TCSVS.MEAS.ICT EFM EFM INSTALLATION @ ICT 5,521.25 40.12522 040.DAS.OUTHTOWN RD.O-CHARL INSTALLATION @ ICT 5,521.26 40.12524 040.50. Liftmore Crane FEM INSTALLATION @ ICT 5,521.26 40.12525 040.0AN RD.O-CHARL INSTALL 300 OF 2" FE ON SOUTHTOWN ROAD TO 0-CHARLIES RESTURANT 5,960/10 40.12526 040.0AN RD.O-CHARL INSTALL 300 OF 2" FE ON SOUTHTOWN ROAD TO 0-CHARLIES RESTURANT 5,960/10 40.12526 040.0AN RD.O-CHARL INSTALL 300 OF 2" FE ON SOUTH AND REBUILD STI Specific 17,972.42 80,650/10 40.12526 040.0AD ROB SI = Sis int INCOLOR AND REBUILD STI Specific 17,972.42 80,650/10	I DAD SHV MEADOWBROOK S III P I		ecific	2,361.75	149.00		2361./5	149.00	AER 71
40.12571 040.125x1 Specific 5,944.96 5,57.125 40.12522 040.125vS.MEAS.ICT EFM EFM installation @ Gemitron for 5,57.125 40.12522 040.175vS.MEAS.ICT EFM EFM INSTALLATION @ ICT 5,521.25 40.12522 040.175vS.MEAS.ICT EFM EFM INSTALLATION @ ICT 5,521.25 40.12522 040.075vS.MEAS.ICT EFM EFM INSTALLATION @ ICT 5,521.26 40.12522 040.070vN RD.O.CHARL INSTALL 300' OF 2' PE ON SOUTHTOWN ROAD TO O-CHARLIES RESTURANT Specific 18,141.33 18,040.00 40.12524 040.50. Liftmore Crame Purchase a liftmore crame to be installed on the Mueller Truck Specific 17,972.42 80.650.00 40.12526 040.050. Liftmore Crame Purchase a liftmore crame to be installed on the Mueller Truck Specific 17,972.42 80.650.00 40.12526 040.050. Liftmore Crame Purchase a liftmore crame to be installed on the Mueller Truck Specific 17,972.42 80.650.00 40.12526 040.050. Liftmore Crame Purchase a liftmore crame to be installed on the Mueller Truck Specific 17,912.42 80.650.00 40.12526 040.050	AD 12510 DAD SHV FAIRWY XING-CLUBHOS DR	-AIRWAY XING ON CLUBHOUSE DRIVE NETWICE 1995	ecific	5,989.96	5,521.25		5989.95	3, 321.23	423.71
040.TCSVS.MEAS.ICT EFM EFM INSTALLATION @ IC1 5.571.22 040.TCSVS.MEAS.ICT EFM EFM INSTALLATION @ IC1 5.571.23 040.TCSVS.MEAS.ICT EFM EFM INSTALLATION @ IC1 5.571.24 040.TCSVS.MEAS.ICT EFM EFM INSTALLATION @ IC1 5.571.20 040.TCSVS.MEAS.ICT EFM EFM INSTALLATION @ IC1 5.571.20 040.DTSVS.MEAS.ICT EFM EFM INSTALLATION @ IC1 5.571.60 040.DTSVS.MEAS.ICT EFM Percenter 18.414.33 18.040.00 040.DSVS.MEAS.ICT EFM Purchase a liftmore crane to be mstalled on the Mueller Truck Specific 17.972.42 90.550.00 040.Sto. Liftmore Crane Purchase a liftmore prane stalled on the Mueller Truck Specific 17.972.42 90.550.00 040.Sto. Liftmore Crane Purchase a liftmore prane stalled on the Nueller Truck Specific 17.972.42 90.560.00 040.CAM.GREENSURG.FEB OUTAGE CAPTURE COSTS WITH ACCIDENT IN GREENSURG 2.8 0.5.RELIGHT AND REBUILD ST/ Specific 17.972.42 90.560.00 040.DAD.Reg StaSys int Project to cover new regulator parts & labor for FY '05 Specific 17.403.96 49.560.00 1 040.RAD.REG Stall Projec	40.12521 040.Tcsvs.Meas.Gemtron EFM		ecific	5,944.96	5,521.25		0944-30 F 044 R7	5,521.25	423.57
40.12522 040.TCSVS.MEAS.IOT EFM EFM INSTITUTION EFM INSTITUTION EVEN INSTITUTION <theven institution<="" th=""> EVEN INSTITUTION</theven>	040.TCSVS.MEAS.ICT EFM INS		pecific	(0.14)	5,521.25		20162 03	727.00	1335.03
40.12523 0.40.DAN SOUTHTOWN RD.O-CHARL INSTALL 30U Or 2 FE ON SOUTH OWN RD.O-CHARL INSTALL 30U OF 2 FE ON SOUTHTOWN RD.O-CHARL <t< td=""><td>40.12522 040.TCSVS.MEAS.ICT EFM EFM INS</td><td>ITUTOIAN POAD TO O-CHARLIES RESTURANT</td><td>pecific</td><td>2,062.03</td><td>00.121</td><td></td><td></td><td>18.040.00</td><td>374.33</td></t<>	40.12522 040.TCSVS.MEAS.ICT EFM EFM INS	ITUTOIAN POAD TO O-CHARLIES RESTURANT	pecific	2,062.03	00.121			18.040.00	374.33
40.12524 040.Sto. Liftmore Crane Purchase a minuor una componential of the componentis of the componential of the componentis of the componential of	40.12523 040.DAN.SOUTHTOWN RD.O-CHARL		pecific	18,414.33	18,040.00	_		80,550.00	-62577.58
040. CMM. GKTENNBOUNGT ED OUTINGT Project to cover new regulator parts & labor for FY '05 Specific 1, 408 96 49,565,80 0040. PAD. Reg Sta - Sys Int Project to cover new regulator parts & labor for FY '05 Specific 32,083 95 40,500 0040. MAYTELD PHONE SYSTEM REPLACE MAYFIELD PHONE SYSTEM REPLACE MAYFIELD PHONE SYSTEM 12,787 00 Specific 12,960.75 12,787 00 Specific 12,787 00 Specific 12,960.75 12,787 00 Specific 12,960.75 12,787 00 Specific 12,960.75 12,787 00 Specific 12,960.75 12,787 00 Specific 12,787 00 Spec	40.12524 040.Sto. Liftmore Crane	ST	Decific	47 601 02	49,585,80				-6984.78
1040.PMJ. Reg Sia - 359 mt Project to cover new regulator parts & labor for FY '05 Specific 32,083 95 40,500.00 1040.PMD. Reg Sia - Sys int Project to cover new regulator parts & Labor for FY '05 Specific 32,083 95 40,500.00 1040.MAYFIELD PHONE SYSTEM REPLACE MAYFIELD PHONE SCIENT 12,787.00 1040.MAYFIELD PHONE SYSTEM REPLACE MAYFIELD PHONE SCIENT 12,787.00	040.CAM.GREENSBURG-FEB UULAGE	T	Decific	1 408 96	49.585.80				(5,575.82)
1940. PAU. TRUS 2144 - OVER MAYFIELD PHONE SYSTEM REPLACE MAYFIELD PHONE SYSTEM SPECIAL 12,960.75 12,787.00 (040, MAYFIELD PHONE SYSTEM)	040.PAD. Reg Sta - Sys Int	T	pecific	32,083,95	40,500.00		32083.95		-8416.05
	DAD MAVEIEI D PHONE SYSTEM		Decific	12,960.75	12,787.00			12,787.00	1/2/11
2.012527 1040 TST HOP 18TH & HARRISON 18TH. & HARRISON 4" PE STA FEEU - HUPK. Specific 2,656.10 2,456.76	40.1252/ 040.MAT FILLD 11010 010	X	Decific	2,656.10	2,456.76	199.34	2656.1	0/.0C+,2	10.001
DAD OBO Wrights Acres INSTALL 412 2" PE	A0. 12529 040 0BO. Wrights Acres								

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Data:____Base Period ____ Forecasted Period Type of Filing:___X__Original ____ Updated _____ Revised

Witness Responsible: R. Cook

Turbus Constrained Constrained <t< th=""><th>Penet The Free Merit Penet The</th><th></th><th>Note) - KPSCDR-2 Item 16b ATT</th><th>Functional and Specific Projects</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Penet The Free Merit Penet The		Note) - KPSCDR-2 Item 16b ATT	Functional and Specific Projects							
	Protection Description Secret Frequencies SecreFrecuencies Secret Frequencies					Actual Cost in Referenced	Original P&N	Variance In Dollars	Total Actual Protect Cost		Variance in Dollars
	Terretic Security			Protect Title / Description	Specific Project	FISCAL YEAR		5851 24	8011.56	13,863.00	-5851.44
	0.0005/0001 Security of a first product of the product o	Project No.		Taron et de 2º MODIHAVEN SUB - GLASGOW	Specific	8,U11.30	200100	-3145.52	2755.48		-3145.52
	One Description Security	40.1253	040.BGR.GLS.WOODHAVEN	2300 FT.0F 2 - WOOD	Specific	2,135.40	0,301.00	5931 27	6145.77		5931.27
	Ondoes/Normality Simple <	40.12531	040.BGR.GLS.PHYSICIANS BLVD.	BELICITE ATTERNOLOUNT OF AN CORNISHVILLE ROAD AT THE BRIDGE	Specific	0,143.77	244 50	6 180 3R	12 549.65	214.50	12,335.15
	Benefic Sterelic		040.DAN.CORNISHVILLE BRUG KELU	<u>Incluorate of or of the FON CORNISHVILLE ROAD AT THE BRIDGE</u>	Specific	0,403.00	100,000	17258.01	27958.01	15,600.00	12358.01
	Biolity ATRACE Security and a second product of the second product product of the second product product of the second product product of the second product product of the second p	_	040.DAN.CORNISHVILLE BKIDG RELU	INETALLOADE 2" PE IN FAIRWAY X-ING OFF MT EDEN RD	Specific	10'9CA'/Z	10,000,00	56075 38	18137.62	74,213.00	-56075.38
	Operation Spendic	2005 40.12535	040.SHV.FAIRWAY X-ING III	INSTALL 2000 01 2 1 2 10 10 10 10 10 10 10 10 10 10 10 10 10	Specific	18,13/.02	7 7 754 95	2160.1	5201.76	7,361.86	-2160.1
	OLICIS Description Stearting Stearting <th< td=""><td>2005 40.12537</td><td>040.BGR.OLDE STONE 4" & 2" EXI</td><td></td><td>Specific</td><td>5,201./6</td><td>1,301.00</td><td>3501 62</td><td>1925.22</td><td></td><td>-3594.62</td></th<>	2005 40.12537	040.BGR.OLDE STONE 4" & 2" EXI		Specific	5,201./6	1,301.00	3501 62	1925.22		-3594.62
	01 1539 000 55000 5500 5500 5	2005 40.12538	040.0BO.OAK ST. REPLACEMENT	REPLACE JUU & DI EEL	Specific	1,925.22	2,519.04	10204	8387 97		-4270.1
	101 Composition Specific 1 4 0.000 0.1254 0.0000 DHERUC NETALL, ROY AFE NETALL, ROY AFE 1 4 0.000 0.1254 0.0000 DHERUC NETALL, ROY AFE NETALL, ROY AFE 1 0.00000 1 0.00000 1 0.00000 1 0.00000 1 0.00000 1 0.000000000000000 1 0.000	2005 40.12539	AKY.Tecsvs.Meas. EFM.Montb.	EFM Installation (g/ WOInepend rackage)	Specific	8,382.92	12,653.02	1.0124-	AGOD 63		-391.4
	Out OB REG MATERIANE NERTIL GMY ZFK NERTIL GWY ZFK NERTIL ZFK	2005 40 1254	1040.OBO.DIACEL	INSTALL 480. 4. PE	Specific	4,600.63	4,992.03	4.150-00	4 0 0 0 0 0 V		-12106.86
	Date of the constraintspect Exclusion of the constraintspect of the constraints of the constraint of the constrai	2005 40 12541	1040.0BO.SHADEWOOD TERRACE	INSTALL 644' 2" PE	Specific	12,643.14	24,750.00	-12106.86	ľ		(12 099 78)
Dis District Section District Section <thdistrict secti<="" td=""><td>Out BRATE Recolution Antis NRPE-CTION Loss Antis NRPE-CTION Loss</td><td>2006 40 12542</td><td>1040 RGR REG PARTS/INSPEC</td><td>REGULATOR PARTS / INSPECTION - B.G.</td><td>Specific</td><td>7.08</td><td>24,750.00</td><td>(24,742.92)</td><td></td><td></td><td>0706 71</td></thdistrict>	Out BRATE Recolution Antis NRPE-CTION Loss	2006 40 12542	1040 RGR REG PARTS/INSPEC	REGULATOR PARTS / INSPECTION - B.G.	Specific	7.08	24,750.00	(24,742.92)			0706 71
	Out DERING Description 27411 0.00 FTORE Read Drive FCI 1950 main southernon from Grands / Lor Drew untermed rd off E Neel for Drems / Dr	2003 40. 12342	DAD BCR REG PARTS/INSPEC	REGULATOR PARTS / INSPECTION - B.G.	Snecific	14.953.29	24,750.00	-9796.71			1 7 22 7 00
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Substruct Specific 2244 Source Tower Service 1000 man detension from Charley Lin for even unmert of the Neith of Derms In Standard Service Text 1000 man detension from Charley Lin for even unmert of the Second Service Text 2000 man Source Toxizes Link 1000 man detension from Charley Lin for even unmert of the Second Service Text 2000 man	2006 40.12542	040.DGN.NEG.I ANI UNIO CO		Concific	71 207 0	968.24	1755.93			1/25.53
	OLICYTON: FREE DIA Logent of the section in the adversion from thread of the section of the sectin sectin of the section of the section of the section of the sec	2005 40.12544		1 050° main extension from Chasity Ln to new unnamed rd off E Noel for Dennis In	obecilic	NB CC	968.24	(945.40)			1,778.77
Operation State 1.22.01 <th1.22.01< th=""> <th< td=""><td>Display Display <t< td=""><td>2005 40.12546</td><td>040.PTON.E NOEI DI KEV EXLII</td><td>1 occurrent extension from Chasity In to new unnamed rd off E Noel for Dennis Th</td><td>Specific</td><td>40.77</td><td>14 000 00</td><td>-2888 17</td><td>8391.83</td><td></td><td>-2888.17</td></t<></td></th<></th1.22.01<>	Display Display <t< td=""><td>2005 40.12546</td><td>040.PTON.E NOEI DI KEV EXLII</td><td>1 occurrent extension from Chasity In to new unnamed rd off E Noel for Dennis Th</td><td>Specific</td><td>40.77</td><td>14 000 00</td><td>-2888 17</td><td>8391.83</td><td></td><td>-2888.17</td></t<>	2005 40.12546	040.PTON.E NOEI DI KEV EXLII	1 occurrent extension from Chasity In to new unnamed rd off E Noel for Dennis Th	Specific	40.77	14 000 00	-2888 17	8391.83		-2888.17
Constraint Description Statute	040.051/05 HERROG-FERRYULE RO PERSTANDLE RO FUEL FOR STORE FERRING FORD FL. 50.00 FL 10.00.051/05 HERROG-FERRING FORD FL. 50.00 FL 50.00 FL <t< td=""><td>2006 40.12546</td><td>040.PTON.E Noel Dr Kev Ext II</td><td>1,000 IttalitieActivity of Fast Diamond Storage</td><td>Specific</td><td>8,991.03</td><td>100 12 01</td><td>1428 45</td><td>11802.45</td><td></td><td>1428.45</td></t<>	2006 40.12546	040.PTON.E Noel Dr Kev Ext II	1,000 IttalitieActivity of Fast Diamond Storage	Specific	8,991.03	100 12 01	1428 45	11802.45		1428.45
Out Standing	0.40.02734 REININGTON PL 700 FL 55.95 GE 55.95 G		040.STO.Storage Building.E UIA		Specific	11,802.45	10,014,00	2007 B	35906 5		20642.8
Ord, CERNING FORD FL ADDR STREMMETCH FL ADDR ST	Did 25R EWING FORD PL	2005 40.12548	040.DAN.M PERROS-PERRYVILLE RD		Specific	35,906.80	15,264.00				-2111.62
(not BRF, Winner Freiher Berlichen Stehnen Steh	040 BGR ENNIG FORD PL. Z PE EXT. ENNIG FORD PL. Z PE EXT. ENNIG FORD PL. (4517.22) 040 BGR ENNIG FORD PL. Z PE EXT. ENNIG FORD PL. Section (4517.22) 040 BGR ENNIG FORD PL. Section Section (4517.22) 040 BGR ENNIG FORD PL. Section Section (4517.22) 040 BGR ENNIG FORD PL. Section Section (4517.22) 040 BGR ASIS NUM PERSON Section Section (4517.22) 040 BGR ASIS NUM PERSON Section Section (4517.23) 040 BGR ASIS NUM PERSON Section (473.23) (473.23)	2005 40 12549	040.2734. REMINGTON PL.		Specific	14,714,16	16,825./8				(6 628 84)
Diol BGR (Windle) Term (Minor Berlin) Specific 5,2,4,8,1 4,2,4,8,	040 BGF NARD VARGE PDA 27 FE EXT. FRIMING FORD PL. 378 EXT. 326 EXT. 336 EXT. 337 EXT. 337 EXT. 337 EXT.	2005 40 1255	040.BGR.EWING FORD PL.	2" PE EXT. EWING FORD PL B.G.	Specific	(4,517.22)	16,825.78	(21,	10,130,34		934.31
Grant Month Start Res Start Res <td>Tote PRD, Madere Stand Rev Ed. 590 - 2° FP E and Wat Deretals D' (10 H 2013) 196.31 196.33 196.33 Tote PRD, Madere Stand Rev Ed. 590 - 2° FP E and Wat Deretals D' (10 H 2013) 296.01 396.01 395.01 Tota PRD, Madere Stand Rev Ed. 295 - 10 - 2° FP E and Wat Deretals D' (10 H 2013) 295.11.01 297.11.01 295.11.01</td> <td>2006 AD 1255</td> <td>NAU RGR EWING FORD PL.</td> <td>2" PE EXT. EWING FORD PL B.G.</td> <td>Specific</td> <td>5,209.12</td> <td>4,274.81</td> <td></td> <td>1.8026</td> <td></td> <td>1 130.64</td>	Tote PRD, Madere Stand Rev Ed. 590 - 2° FP E and Wat Deretals D' (10 H 2013) 196.31 196.33 196.33 Tote PRD, Madere Stand Rev Ed. 590 - 2° FP E and Wat Deretals D' (10 H 2013) 296.01 396.01 395.01 Tota PRD, Madere Stand Rev Ed. 295 - 10 - 2° FP E and Wat Deretals D' (10 H 2013) 295.11.01 297.11.01 295.11.01	2006 AD 1255	NAU RGR EWING FORD PL.	2" PE EXT. EWING FORD PL B.G.	Specific	5,209.12	4,274.81		1.8026		1 130.64
Sind Primation Same for Pr	With Transient Rate Ext, Ser 2 PE adomter behaves for 9	2000 40.1200	DAD DAD Matdan Stihd Rev Ext	950' - 2" PE along Walt Defreitas Dr for 9 lots	Snacific	196.33	4,274.81	(4,07)			20011
Model Stress Sensition of control Sensition of cont	Owner Answere Selection	10071-04 000Z		950' - 2" PE along Walt Defreitas Dr for 9 lots	Concrition	3 396 60					0.00
event service in a constraint of a service in a service service in a service service in a service service in a service service in a servic	Qued BRF, XSHWIGR FLAT Zead: FL OF Z* PER NHIUNG: PARKE (Ha - B.G.) Specific Specific Add: Science 040 BBR; NOP PENNYRIE, FOND 255 FL OF Z* PER NHYRIE, FOND 256 FL D* D* OF Z* PER NHYRIE, FOND 256 FL Z* D* D* OF Z* PER NHYRIE, FOND 256 FL Z* D* D* OF Z* PER NHYRIE, FOND 256 FL Z* D* D* OF Z* PER NHYRIE, FOND 256 FL Z* D* D* OF Z* PER NHYRIE, FOND 257 FL Z* D* D* OF Z* PER NHYRIE, FOND 256 FL Z* D* D* OF Z* PE FL Z* D* D* D* PENNEL 257 FL Z* D*	2006 40.12551	1	SENSIT GOLD CGI - DISTRIBUTION	oheono	8 235 23			8235.2		117911-
040000 0400000 0400000 04000	Old BER HOP FENYIFILE FORD SEFT. OF 2*FE - FENNYIFILE FORD Second Specific V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/V/	2005 40.12554	1	2643 ET OF 2" PF - ASHMORE PARKE II-B - B.G.	obecilic	A 610 67			4612.6		3886.67
Ordel BRFH PFENNTRLE FYND Gast Ty of "ZFE_ LEBWYRLE FORD Offen Likes SD 4555 (1) 357 (1) 4155 (1) 315 (1) 4155 (1) 315 (Odd BRR, HOP PERNIYRILE EVRU 2357 F1 OF # PEE Cite # PEE FLUX-ESS 15 Cite # PEE FLUX-ESS 15 Cite # PEE	2005 40.12555		22 CONTRACTOR 2010 - DENNYRILE FORD - HOPKINSVILLE	Specific	10.210,4	726.00		(3.111.29		(3,837.29)
Cold GRA HOP FWARTER - TOK STORE NOT CALMENE TOK	Odd BGR, GLS, NEW BYPASS, TSC) TGC FT (or 4 "FE - NEW BYPASS (TSC) - GLASGOW Specific 74/31930 J Odd BGR, GLS, NEW BYPASS, TSC) TGC FT (or 4 "FE - NEW BYPASS, TSC) TGC FT (or 4 "FE - NEW BYPASS) 74/31930 J Odd OBGR, GLS, NEW BYPASS, TSC) TGC FT (or 4 "FE - NEW BYPASS, TSC) Store Reis INSPECTIONS Store Reis INSPECTIONS 2006 REG INSPECTIONS Store Reis INSPECTIONSP	2005 40.12556	-	025 FT OF 2"PE _ PENNYRII F FORD - HOPKINSVILLE	Specific	102.027,11					-5542.83
Specific 7.387 (a) 7.465 (b) 7.46 (b) 7.44 (b) 7.44 (b) 7.44 (b)	040.0BGR.GIS NEW BYPAST 150. 2005 REG INSPECTIONS 2005 INSPECTIONS 200	2006 40.12556		A SOLUTION OF AN DE NEW RYPASS (TSC) - GLASGOW	Specific	1200.001		+			-337.2
Old 000 2006 RFG NRFECTIONS ZUDD REG NRFECTIONS <thzudd nrfections<="" reg="" th=""> ZUDD REG NRFECTION</thzudd>	Ideal Objection Security	2005 40.12558	_		Specific	14,313.00		╀			254.46
04000B0 Unitability Display Display <td>Index Instant Specific 7.286-56 3 Indi OBD OUTCH BANKS NISTALL 1: YZ PE NERTALL 1: YZ PE Specific 7.266-56 3 Indi OBD OUTCH BANKS NISTALL 1: ZZ PE NETALL 1: ZZ PE Specific 7.561-31 561-31 Indi OBD OUTCH BANKS NISTALL 200° YZ PE IO REMOVE A FARM TPA 71 WINUT AND WOODLAWN Specific 7.526-56 3 Indi OBD OUTCH BANKS REPLACE BOOTS AND REPAIR REGULATORS IN THE DAWILLE REGION Specific 7.357-20 2</td> <td>2005 40.12559</td> <td></td> <td>ZUUD REG.INOFEVITONO</td> <td>Specific</td> <td>591.65</td> <td></td> <td>_</td> <td></td> <td></td> <td>-1489.84</td>	Index Instant Specific 7.286-56 3 Indi OBD OUTCH BANKS NISTALL 1: YZ PE NERTALL 1: YZ PE Specific 7.266-56 3 Indi OBD OUTCH BANKS NISTALL 1: ZZ PE NETALL 1: ZZ PE Specific 7.561-31 561-31 Indi OBD OUTCH BANKS NISTALL 200° YZ PE IO REMOVE A FARM TPA 71 WINUT AND WOODLAWN Specific 7.526-56 3 Indi OBD OUTCH BANKS REPLACE BOOTS AND REPAIR REGULATORS IN THE DAWILLE REGION Specific 7.357-20 2	2005 40.12559		ZUUD REG.INOFEVITONO	Specific	591.65		_			-1489.84
040.000.UICH BANKS NEMAL-LIKE REVALLED 9300.00 -3691.31 9300.00 -3691.31 9300.00 -3691.31 9300.00 -3691.31 9300.00 -3723.10 -3723.00 -5691.31 -371.30 -371.31 -	Odd OD UTCH BANKT New REG STA WINSATT CT. & TIE IN CALUMET & PLEASANE VALLEY RD. Specific 5/61/31 5/72/31 5/61/31 5/72/31	2006 40.12559			Specific	7,236.55					-6387.24
Ond OBD WRMT is CALUMET Network to characterize in the source of characterize in the source of characterize in the control of characterize in the	Index Instruct Specific Specific <t< td=""><td>2005 40.1256</td><td></td><td>INSTALL 1, 12, 2 C L L L L L L L L L L L L L L L L L L</td><td>Specific</td><td>gc.c4/,/2</td><td></td><td></td><td></td><td></td><td>-3638.69</td></t<>	2005 40.1256		INSTALL 1, 12, 2 C L L L L L L L L L L L L L L L L L L	Specific	gc.c4/,/2					-3638.69
Order Section 5.7.21 7.4.00.00 1.0.4.5.1 0.1.4.5.1 0.1.5.5.1 1.0.4.5.5 1.0.4.5.5 1.0.4.5.5 1.0.4.5.5 1.0.4.5.5 1.0.4.5.5 1.0.4.5.5 1.0.4.5.5 1.0.4.5.5 1.0.4.5.5 1.0.4.5	Date Description Specifie 37723.10 2 040.0AN REGIONAL REG REPAR.05 REFLACE BOOTS AND REPAIR REGULATIORS IN THE DAWILLE REGION Specific 6.377.20 040.0DAN REGIONAL REG REPAR.05 REPLACE BOOTS AND REPAIR REGULATIORS IN THE DAWILLE REGION Specific 6.356.82 040.0DAN REGIONAL REG REPAR.05 REPLACE BOOTS AND REPAIR REGULATIORS IN THE DAWILLE REGION Specific 6.357.20 040.5T/L ALCOVERBROOK PH II INSTALL 2500 72" PE IN CLOVERBROOK INSTALL 2500 72" PE IN CLOVERBROOK TO 1.361.75 040.5T/L CLOVERBROOK PH II INSTALL 2500 72" PE IN CLOVERBROOK Specific 6.356.82 040.5T/L ALCOVERBROOK PH II INSTALL 2500 72" PE FOR 30 UNTS AT CARRINGTON PLACE Specific 7.509 040.5T/L MIDLAND SEC 8 INSTALL 2500 72" PE FOR 31 LOTS MIDLAND SEC 8 Specific 7.327.16 040.5T/L MIDLAND SEC 8 INSTALL 2500 72" PE FOR 31 LOTS MIDLAND SEC 8 Specific 7.327.16 040.5T/L MIDLAND SEC 8 INSTALL 2500 72" PE FOR 31 LOTS MIDLAND SEC 8 Specific 7.327.16 040.5T/L MIDLAND SEC 8 INSTALL 2500 72" FE FOR 31 LOTS MIDLAND SEC 8 Specific 7.327.16 040.5T/L MIDLAND SEC 8 INSTALL 2500 67"	2005 40.12561	040.0BO.WIMSATT & CALUMET	NEW REG STA. WINDALL CL. & TIL IN CREME A FAMILY AND WOODLAWN	Specific	5,661.31					13323.1
Gug DMN REGIONL REG REPARS REPLACE BOITS AND REPART RECOUNCES Specific 5,351 2,750.00 1,4007.750 2,750.00 1,4007.750 2,750.00 1,4007.750 1,4008.75 1,417.500 1,750.01 <t< td=""><td>Odo/DAN REGIONAL REG REPARJOS REPLACE BOOTS AND REFAIR REGULATORS IN THE DAWNLE REGION Specific 6,322.85 2 040.DAN REGIONAL REG REPARJOS REPLACE BOOTS AND REPAIR REGULATIONS IN THE DAWNLE REGION Specific 6,337.25 040.DAN REGIONAL REG REPARJOS REPLACE BOOTS AND REPAIR REGULATIONS IN THE DAWNLE REGION Specific 6,357.25 040.DAN REGIONAL REG REPLACE BOOTS AND REPAIR SOL Punchase and install a new ar conditioner at the Storage/Measurement area Specific 1,361.75 040.SHV.CLOVERBROOK PH II INSTALL 2500 '2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 1,361.75 040.SHV.CARRINGTON PLACE III INSTALL 750' OF 2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 3,327.79 040.SHV.CARRINGTON PLACE III INSTALL 750' OF 2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 3,327.79 040.SHV.CARRINGTON PLACE III INSTALL 750' OF 2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 3,327.79 040.SHV.CARRINGTON PLACE III INSTALL 750' OF 2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 4,323.716 040.SHV.CARRINGTON PLACE III INSTALL 750' OF 2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 3,327.79 040.SHV.CARRINGTON PLACE III INST</td><td>2005 40 12562</td><td>040.CAM.LEB.EAST WALNUT</td><td>INSTALL 200' OF 2" PE TO REMOVE A FARMINE AL VICING THE REGION</td><td>Specific</td><td>37,723.10</td><td>_</td><td>_</td><td></td><td></td><td>19 645 95</td></t<>	Odo/DAN REGIONAL REG REPARJOS REPLACE BOOTS AND REFAIR REGULATORS IN THE DAWNLE REGION Specific 6,322.85 2 040.DAN REGIONAL REG REPARJOS REPLACE BOOTS AND REPAIR REGULATIONS IN THE DAWNLE REGION Specific 6,337.25 040.DAN REGIONAL REG REPARJOS REPLACE BOOTS AND REPAIR REGULATIONS IN THE DAWNLE REGION Specific 6,357.25 040.DAN REGIONAL REG REPLACE BOOTS AND REPAIR SOL Punchase and install a new ar conditioner at the Storage/Measurement area Specific 1,361.75 040.SHV.CLOVERBROOK PH II INSTALL 2500 '2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 1,361.75 040.SHV.CARRINGTON PLACE III INSTALL 750' OF 2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 3,327.79 040.SHV.CARRINGTON PLACE III INSTALL 750' OF 2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 3,327.79 040.SHV.CARRINGTON PLACE III INSTALL 750' OF 2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 3,327.79 040.SHV.CARRINGTON PLACE III INSTALL 750' OF 2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 4,323.716 040.SHV.CARRINGTON PLACE III INSTALL 750' OF 2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 3,327.79 040.SHV.CARRINGTON PLACE III INST	2005 40 12562	040.CAM.LEB.EAST WALNUT	INSTALL 200' OF 2" PE TO REMOVE A FARMINE AL VICING THE REGION	Specific	37,723.10	_	_			19 645 95
Option Instruction REPLACE BOILS AND REFLACE NOT SAND REFLACE NOT REFLACE NOT SAND RE	Determ Description Specific 2.537.20 / 1.500 040.DAN REGIONAL REG REPAR-05 RELACE BOOTS AND KEYARK GUEAN UNCOM THE COMMENDENTIEL COMMENDENTIN	2005 40 12563		REPLACE BOOTS AND REPAIR REGULATORS IN THE DAMVILLE REGION	Specific	6,322.85		(18,0			392.8
Opti STO_Air Description End Specific 6.56.82 18,175.00 1.17.87.00 1.17.87.00 1.17.87.00 Mode STM CLOPERBROOK PH1 INSTALL 2500 7° FE IN CLOOVERBROK INSTALL 2500 7° FE IN CLOOVERBROK 6.595.00 5.75.00 1.17.67.00 1.17.67.00 1.17.87.00	Odo: STO. Air Conditioner Purchase and install a new arconditorie at the ounderward measurement of the state	2006 40 12563		REPLACE BOOTS AND REPAIR REGULATORS IN THE DRIVERE TREASE	Specific	2,357.20					-11578 18
Description Description Tig bit Secretion	dio Short Specific 11.361.75 040.SHV CLOVERBROOK PH II INSTALL 2500 2" PE IN CLOOVERBROOK Specific 13.61.75 040.SHV CLOVERBROOK PH II INSTALL 2500 2" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 3.72.79 040.SHV CARRINGTON PLACE III INSTALL 2500 72" PE FOR 36 UNITS AT CARRINGTON PLACE Specific 3.372.79 040.SHV CARRINGTON PLACE III INSTALL 2600 0F 2" PE FOR 31 UNITS AT CARRINGTON PLACE Specific 3.327.79 040.SHV MIDLAND SEC 8 INSTALL 750 0F 2" PE FOR 21 LOTS MIDLAND SEC 8 Specific 3.327.79 040.SHV MIDLAND SEC 8 INSTALL 750 0F 2" PE FOR 21 LOTS MIDLAND SEC 8 Specific 3.250.13 040.SHV MIDLAND SEC 8 INSTALL 750 0F 2" PE FOR 31 LOTS MIDLAND SEC 8 Specific 2.510.92 040.SHV MIDLAND SEC 8 INSTALL 750 0F 2" PE IOR 21 LOTS MIDLAND SEC 8 Specific 2.510.92 040.SHV MIDLAND SEC 8 INSTALL 750 0F 2" PE IOR 31 LOTS MIDLAND SEC 8 Specific 2.510.92 040.SHV MIDLAND SEC 8 INSTALL 750 0F 2" PE IOR 31 LOTS MIDLAND SEC 8 Specific 2.510.92 040.SHV MIDLAND SEC 8 INSTALL 750 0F 2" PE IOR 31 LOTS MIDLAND SEC 8 Specific 2.510.92 </td <td>2005 AD 12564</td> <td></td> <td>Purchase and install a new air conditioner at the otomagementations</td> <td>Specific</td> <td>6,596.82</td> <td>_</td> <td></td> <td></td> <td></td> <td>(216.43)</td>	2005 AD 12564		Purchase and install a new air conditioner at the otomagementations	Specific	6,596.82	_				(216.43)
Orio SirV. CLOVERBROK RPI II INSTALL 2000 2° FE fOR 30 UNIS AT CARRINGTON PLACE Specific 7.50 5.835.00 5.736.00 5.736.00 5.736.00 5.736.00 5.736.00 5.736.00 5.736.00 5.736.00 5.736.00 5.736.00 5.736.00 5.736.00 5.737.13 6.746.00	Ödö SHV CLOVERBROOK PH II INSTALL 2500 '2' PE IN CLOWERBROOK PH II INSTALL STOO '2' PE FOR 36 UNIT'S AT CARRINGTON PLACE Specific 75.09 Ød0 SHV CLOVERBROOK PLACE III INSTALL 600 OF 2'' PE FOR 36 UNIT'S AT CARRINGTON PLACE Specific 3.20 Ød0 SHV CLOVERBROOK PLACE III INSTALL 600 OF 2'' PE FOR 36 UNIT'S AT CARRINGTON PLACE Specific 3.27 Ød0 SHV CLOVER III INSTALL 600 OF 2'' PE FOR 36 LOTS Specific 4.237 16 Ød0 SHV MIDLAND SEC 8 INSTALL 750 OF 2'' PE FOR 36 LOTS Specific 4.237 16 Ød0 SHV MIDLAND SEC 8 INSTALL 1500 OF 2'' PE FOR 36 LOTS MIDLAND SEC 8 Specific 4.237 16 Ød0 SHV MIDLAND SEC 8 INSTALL 1600 OF 2'' PE FOR 36 LOTS MIDLAND SEC 8 Specific 4.237 16 Ød0 SHV FARM TAP REBUILD 1 REBUILD 6 FARM TAPS USING REGULATORS AND SERVICES Specific 48.260.23 3.260.13 Ød0 SHV FARM TAP REBUILD 1 REBUILD 1 REBUILD 6 FARM TAPS USING REGULATORS AND SERVICES Specific 48.260.23 3.02.10 Ød0 SHV FARM TAP REBUILD 1 REBUILD 1 REBUILD 6 FARM TAPS USING REGULATORS AND SERVICES Specific	2005 40 12565	1	INSTALL 2500' 2" PE IN CLOUVERBRUOK	Specific	11,361.75			ñ'/L		
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ARY. ISSN: Meas. FTM. VWN Installation of EFM @ TWN Fasteners 7 (34, 22) 7 (37, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15	Abs/ Abs/ Abs/ Abs/ Abs/ Abs/ Abs/ Abs/	2005 40.125/6		Installation of EFM @ TWN Fasteners	Specific	/8 0F			3		5
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40.12579 Aky. Tosvc. ErM. State Ur Install EFM @ State ICF Install EFM @ State ICF 12,160.98 4574,46 16735,44 12,160.98 0.12579 Aky. Tosvc. EFM. State ICF Install EFM @ State ICF Install EFM @ State ICF 11,252,87 4574,46 16735,44 12,160.98 0.12579 Aky. Tosvc. EFM. State ICF Install EFM @ Desa Int. Specific 10,236,89 11,252,87 -1015,98 10,236,89 11,252,87 0.12511 040.7BD. Sequesz EFM.Desa Purchase of Sequey scooler for meter reading in Paducah area Specific 10,236,89 11,252,87 -1015,98 13,031,92	1.2579 Aky. Tcsvc. ErM. State ICF Install EFM @ State ICF Specific 16,755.44 10.12579 Aky. Tcsvc. EFM State ICF Install EFM @ State ICF Specific 16,755.44 10.12561 Aky. Tcsvc. EFM State ICF Install EFM @ Desa Int. Specific 10,236.89 10.12561 040.PAD. Segway Park Rev Ext Install 2,800° 2" PE in Carriage Park Subd off Steele Rd for Sharon Sanderson Specific 1,336.48 10.12562 040.PAD. Carriage Park Rev Ext Install 2,800° 2" PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 5000000 BAS 10, 125600 040.PAD. Carriage Park Rev Ext Install 2,800° 2" PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 8000000000000000000000000000000000000	2005 40.12576	T	Install FEM @ State ICF	Specific	20 63					2
10.12579 Aky.Tcsvc.EfM. State Ici- Initial Linear Lin	40.12579 Aky.Tcsvc.EFM. State ICF Install EFM @ Dea Int. Int. <td>2005 40.12575</td> <td></td> <td>Install EEM @ State ICE</td> <td>Specific</td> <td>03.02</td> <td>_</td> <td></td> <td></td> <td></td> <td></td>	2005 40.12575		Install EEM @ State ICE	Specific	03.02	_				
0.0125B Aky.Tcsvc.Meas.EF.M.Desa Instant Err Mustal Constraint of the second of the second of the meter reading in Paducah area Specific 10.250 bit 13.031 S2 366.45 13.396.48 13.031 S2 366.45 13.031 S2 367.89 13.031 S2 366.45 13.031 S2 366.43 13.031 S2 13.	40.1258 Aky. Tcsvc. Meas. FFM Desa Instant Erring. Vees monotone for meter reading in Paducah area Specific 10,230.69 40.1258 040. PAD. Segway Eventse of Segway scooler for meter reading in Paducah area Specific 13,395.48 40.1258 040. PAD. Segway Eventse of Segway scooler for meter reading in Paducah area Specific 13,395.48 40.1258 040. PAD. Segway Eventse of Segway scooler for meter reading of Steele Rd for Sharon Sanderson Specific 504.89 40.12562 040. PAD. Carmoge Park Rev Ext Install 2,800' 2" PE in Carmoge Park Subd off Steele Rd for Sharon Sanderson Specific 504.89 40.12562 040. PAD. Carmoge Park Rev Ext Install 2,800' 2" PE in Carmoge Park Subd off Steele Rd for Sharon Sanderson Specific 504.89	2006 40.12575		IIISIAII LT M (B Diate to)	Specific	10,/30.44		-			٦
40.12581 040.PDD. Segway Putronase on segway scored of mixed rooms Mathematical scored of mixed rooms Specific 13,396.48 13,001.82 20,201.37 13,001.37 13,001.32 40.12582 040 PAD.Carrage Park Rev Ext Install 2,800'2" PE in Carrage Park Sudd off Steele Rd for Sharon Sanderson Specific 504.89 13,001.92 13,001.37 13,001.37 13,001.37 13,001.37 13,001.37 13,001.37 13,001.37 13,001.37 13,001.37 13,001.37 13,001.37 13,001.37 13,001.37 13,001.37 13,001.37 13,100.00 40,12582 040 PAD.Carrage Park Rev Ext Install 2,000'2" PE in Carrage Park Sudd off Steele Rd for Sharon Sanderson Specific 8,989.72 13,100.00 4210.28 13,100.00 40,1260 13,100.00 4210.28 13,100.00 40,1200 40,1260 13,100.00 4210.28 13,100.00 40,1200 40,120 13,100.00 4210.28 13,100.00 4210.28 13,100.00 4210.28 13,100.00 4210.28 13,100.00 40,120 13,100.00 4210.28 13,100.00 40,120 13,100.00 40,120 40,120 </td <td>40.12581 040.PAD.Segway Purchase of segvery scorer for much construction and for Sharon Sanderson Specific 13.358.48 https://www.com/articles.com/article</td> <td>2005 40.1258</td> <td></td> <td>Install Errin (@ Uesa int.</td> <td>Specific</td> <td>10,230.05</td> <td></td> <td></td> <td></td> <td></td> <td></td>	40.12581 040.PAD.Segway Purchase of segvery scorer for much construction and for Sharon Sanderson Specific 13.358.48 https://www.com/articles.com/article	2005 40.1258		Install Errin (@ Uesa int.	Specific	10,230.05					
40.12562 040 PAD.Carriage Park Rev Ext Install 2,800 Z PE in Carriage Park Sound of Station Sanderson Specific 504.89 13,051.02 12,527.021 13,100.00 4210.28 8889.72 13,100.00 4210.28 8889.72 13,100.00 40.12582 040 PAD.Carriage Park Rev Ext Install 2,800 Park Rev E	40.12582 040 PAD. Carriage Park Rev Ext Install 2, 800 Z PE in Carriage Park Subd off Steele Rd for Sharon Sanderson Specific 504.89 A Construction 2, 200 Z PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Subd off Steele Rd for Sharon Sanderson 2, 200 C PE in Carriage Park Sander	2005 40.12581		Purchase of begway scouter for interest scores are series and off Steele Rd for Sharon Sanderson	Specific	13,396.40		1421			
40.12582 040 PAD.Carriage Park Rev Ext Install 2,000 2 TE III OSTINGS TO METTS DRIVE AND NDIAN CRK TO RETIRE FARM TAP REGISPECIFIC 8,889.72 13,100.00 72,100		2005 40.12582		Install 2,000 Z F C III Ostitago F and Shihd off Steele Rd for Sharon Sanderson	Specific	504.8		-		2	4210.28
	40.12582 JUAU PAU. CATIRGE FAIN NEV LAN WORK TO READ METTS DRIVE AND INDIAN CRK TO RETIRE FARM TAP REGUSDED 1 9,000,00 L	2006 40.12582		Install 2,000 2, FE III OBINAGO UNITE DAID INDIAN CRK TO RETIRE FARM TA	AP REGI Specific	1,8889.1					

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Case No. 2006-00454 Construction Projects Fiscal Years 2004 - 2006

Base Period ____ Forecasted Period Data:

1

		Type of Filing: X	Original Updated Revised	Euroritonal and Specific Projects				> ,	Witness Responsible:	ible: R. Cook 1		
		Workpaper Keterenc	1		Functional or	Actual Cost in Referenced	Original P&N	Variance In	Total Actual Project Cost	Total P&N Cost Estimate	/ariance in Dollars	
						Fiscal Year 1 17.454.36	18,950.00	ומ	17454.36		-1495.64	
		10		UU	-	3,338.44	18,950.00		20,792.80		-10492.47	
		2006 40.12584	040.LEB.IND PARK-JOY MINING	1		24,213.53	34,705.00		9930.58		-5669.42	
		40.12585	040.BGR.GLS.METER&SET	I MARKED TO BE STEEL TRANS LINE-WELD REINFORCEMENTS AT WELDS	Specific	9,930.30	41 949.00		27411.29		-14537.71	
		40.12585	040.5HV.NOTTINGTILLED TRANK	FARM TAP REG. STAT & EFV - HOPKINSVILLE AREA	Snacific	90.18	41,949.00		27,501.47		(14,447.53)	
		10 12587	DAD RGR HOPK FARM TAP REG.	FARM TAP REG. STAT & EFV - HOPKINSVILLE AREA	Snecific	30,950.53	34,562.00		30950.53		14.1105-	
		40 12588	040.BGR.FARM TAP STA & EFV	FARM TAP STA & EFV - BOWLING GREEN	Specific	13,424.32	37,364.36		13424.32		101 67	
		40.12589	040.MAD. FARM TAPS	FARM TAP PROJECT	Specific	48,195.87	48,094.20		40130.01		1.435.08	
		2005 40.1259	040.0BO.MISC. EQUIPMENT	PE&STL SQUEEZE UFF TUOLS, LINE LUCATORS	Specific	1,333.41	48,094.20		43,323.20 13817 B5		-10937.15	
		2006 40.1259	040.0BO.MISC. EQUIPMENT	PEASIL. SQUEEZE UFF TOULS, LINE EQUILATE CONTOURS	Specific	13,812.85	24,750.00		4586.01		-935.23	
		2005 40.12591	Replace Optra Printers	Replace printers with Uell TTM Lanalation @ New Mather Metal	Specific	4,586.01	5,521.24		4 578 71		(942.53)	
		2005 40.12592	Aky.Tcssvc.Meas.New Mather	EFM Installation @ New Mather Metal	Specific	00.70	75, 25, 24		23360.96		-3028.04	
		2006 40.12592	-	Dis and steel squeeze-off tools	Specific 5	4 74 / 01	76,389,00				(1,313.13)	
Mark Name, Name, Status Paradiatise in the status of the sta	Option Mark Name Partine Mark Name	2005 40.12594	-	Pis and steel squeeze-off tools	Specific	21 100 01	34.400.00				-13299.99	
Ontwinkersen Der Mark Same (Mark Same) Prank Barener (Mark Same)	Onto Mark Fall Provincial Control Provincial Contro Provincial Control Provincial C		DAD MAY Misc Work Frith	Pls and steel squeeze-off tools	Specific	1.519.58	34,400.00				(11,/80.41)	
	Option Name Purpose Particle		DAU MAY Misc Work Equip	Pls and steel squeeze-off tools	Snecific	15,986.79	19,800.00				-3813.21	
OLIVI DUPRIENT C. 005 PHOCHARG F. F. SCHELEZ, DFT. 1, The SUMMER, DFT. 2, TOXING F. M. SCHELEG, MARK F. M.	Option Regime 17, 2010 PURPUNE 17, 5010 PURPUNE 17, 50100 PURPUNE 17, 50100 PURPUNE 1			PURCHASE 6 PE SQUEEZE OFF, 2-CGI SENSI GOLD, 4-LINE LOCATONO 	OdSpecific	12,604.86	17,750.00				14 676 151	
Month Microsoft Month Micr	ONN COMPACTUMENT CONST Derivative construction Derivative construction Security construction	2005 40.12597	040.DAN.EQUIPMENT 6-2005	PURCHASE 7-PE SQUEEZE OFF 1',1-PE SQUEEZE OFF 2',2-OU GENSI GOLD 1-LINE LO	Of Specific	468.99	17,750.00				-R947 77	
Indelige Constraint Constraint <thconstraint< th=""> Constraint Constraint</thconstraint<>	model noise interaction protection frame. Four a sense into	2006 40.12597	040.DAN.EQUIPMENT 6-2005	PURCHASE 7-PE SQUEEZE UFF 1, 1-PE SQUEEZE OFF 2, 200 SENSI GOLD 1-LINE LO	IC Specific	15,602.23	24,550.00				14406 71	
OBGRAMMS Statement Ford Statement For	Image: Section of the control is the control is the control of the contro	2005 40.12598	040.SHV.EQUIPMENT 6-2005	PURCHASE 1-PE SQUEEZE UPP, 1-31 EEE 300 LEEE VI 12 CONTRACTOR	Specific	34,888.71	20,482.00				15,197.55	
One Ger Name Distance FUT on Statistic ToOL 0.45600W Specific statistic TOL 0.4500 (2012) 1(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)	ORIGE Statute	2005 40.12599	040.BGR.MISC. EQUIP - B.G	SUDEELE UFF TOOLS & LINE FOOD STORE - B.G.	Specific	790.84					-5685.29	
01/35 0000054 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	(1) WORDS (CAS) (CAS	2006 40.12599	040.BGR.MISC. EQUIP - B.G	SQUEEZE OFF TOOL & EMSE EXCEPTION & SENSIT GOLD - GLASGOW	Specific	9,425.71					(5,081.43)	
01/360 000 Beha 525 (16) 100 Beha 200 Beha <td>01/38 000055 0000055 0000055 000005</td> <td>40.126</td> <td></td> <td>SOUTHER OFF TOOL & SENSIT GOLD - GLASGOW</td> <td>Specific</td> <td>00.000 86 705 14</td> <td></td> <td></td> <td></td> <td></td> <td>20972.38</td>	01/38 000055 0000055 0000055 000005	40.126		SOUTHER OFF TOOL & SENSIT GOLD - GLASGOW	Specific	00.000 86 705 14					20972.38	
Mark Frankers Souties: For the Mark Fr	Marce Factor Soutier Constraint Constraint <t< td=""><td>40.126</td><td>040.BGK.GLS.WISC EQUIP</td><td>SOURFEZE OFF TOOLS & LINE LOCATORS - HOPKINSVILLE</td><td>Specific</td><td>41,301.00</td><td></td><td></td><td></td><td></td><td>22,804.11</td></t<>	40.126	040.BGK.GLS.WISC EQUIP	SOURFEZE OFF TOOLS & LINE LOCATORS - HOPKINSVILLE	Specific	41,301.00					22,804.11	
Discrete Discrete Statistics Specifie (15,12,10) Specifie (14,12,10) Specifie (14,12,10) Specifie (14,12,10) Specifie (14,12,10) Specifie (14,12,	Date of District Stream Date Distream Date Distream <thdistream<< td=""><td>40.126U1</td><td></td><td>SQUEEZE OFF TOOLS & LINE LOCATORS - HOPKINSVILLE</td><td>Specific</td><td>42.267.64</td><td></td><td></td><td></td><td></td><td>-</td></thdistream<<>	40.126U1		SQUEEZE OFF TOOLS & LINE LOCATORS - HOPKINSVILLE	Specific	42.267.64					-	
Ordin Biolity Interverv Specific 1 (35) (36) (37) (37) (36) (36) (36) (36) (36) (36) (36) (36	Condition Condition <thcondition< th=""> Condition <thcondition< th=""> Condition <thcondit< th=""> Condit Condit<</thcondit<></thcondition<></thcondition<>	40.12602	DAD ORO ST. ELIZ. RPLMT.	INSTALL 966' 2" PE RETIRE 4' LP STL.	Specific	36,081.29						
Option Biol Hunter (Marking FS ETV) Constraint MARETV Fram MARE	Ond GRA RUSS: FAMI APPERV FORM PRESE FUNCTION Standing FORM T/2000 Z/1500 Z/1500 <thz 1500<="" th=""> Z/1500 <thz 1500<="" th=""> Z/1500 <thz 1500<="" th=""></thz></thz></thz>	40 12603	040.BGR.FRK. FARM TAP/EFV	FARM TAP / EFV - 2" TIE-IN - FRANKLIN AREA	Specific	13,951.98					1	
Open Construction Specific 12,4455 0,530-530 143,555.0 143,550.0 143,555.0 143,555.0 143,555.0 143,550.0 143,550.0 143,550.0 143,550.0 143,550.0 143,550.0 143,550.0 143,550.0 143,550.0 143,550.0 143,550.0 143,550.0 143,550.0 143,550.0	Operation Specific 15.44120 Control ->>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	40.12604	040.BGR.RUSS. FARM TAP/EFV	FARM tAPS & EFV - RUSSELLVILLE AREA	Specific	729.02		3				
Old Mond Behn Refer Frence Markar en university of the second secon	Onton Steps Bon Hether Fere Effection Test Big h Store Test Big h St	40.12604	040.BGR.RUSS. FARM TAP/EFV	FARM IAPS & EFV - RUSSELLVILLE ANALY	Specific	2,444.62					1	
Ondmon BEN CERFELENT NO. MEXALLANCE TATA STIL Specific T_11211 Statutes T_227251 T_227251 <th t_2<="" td=""><td>0 elonto BEN/ CEMETERY PU. MENTAL JURY PU. <th< td=""><td>40.12605</td><td>040.Storage Bon Harbor Fence</td><td></td><td>Specific</td><td>159,951.90</td><td></td><td></td><td>16</td><td>-</td><td></td></th<></td></th>	<td>0 elonto BEN/ CEMETERY PU. MENTAL JURY PU. <th< td=""><td>40.12605</td><td>040.Storage Bon Harbor Fence</td><td></td><td>Specific</td><td>159,951.90</td><td></td><td></td><td>16</td><td>-</td><td></td></th<></td>	0 elonto BEN/ CEMETERY PU. MENTAL JURY PU. <th< td=""><td>40.12605</td><td>040.Storage Bon Harbor Fence</td><td></td><td>Specific</td><td>159,951.90</td><td></td><td></td><td>16</td><td>-</td><td></td></th<>	40.12605	040.Storage Bon Harbor Fence		Specific	159,951.90			16	-	
Memory Law Constraint Neuron Specific biol Specifi	Odm/MAD (MD) (MD) (MD) (MD) (MD) (MD) (MD) (MD	2005 40.12606		INSTALL 2, 120 7 01C. INSTALL 2, 120 7 01C.	Specific	77754 00				0	1 1	
Ondomentation Specific of a construction Specific of cons	Quantum Carron Section	2006 40.12606		INSTALL 5, 122 Y STL	Specific	63 010 35					- 4	
OWERDLENT Stort IDF Control Control Control Control Control Control Control Control <t< td=""><td>Ond IRRN LINE Description Television Tel</td><td>2005 40.12607</td><td>. I.</td><td>INSTALL6.360' 4" STL</td><td>Specific</td><td>R2 166 11</td><td></td><td></td><td></td><td></td><td></td></t<>	Ond IRRN LINE Description Television Tel	2005 40.12607	. I.	INSTALL6.360' 4" STL	Specific	R2 166 11						
Order Service Secretic	OPERAMENT Sign FLOC First STELOC First Step G4725_01 G4725_01 G4725_01 G4725_01 G4725_01 G4725_01 G4725_01 G4725_01 G4725_01 G4722_01 G4722_01 G4722_01 G4722_01 G4722_01 G472_010 G472_010 <thg47_010< th=""> G472_010 G472_0</thg47_010<>	2006 40.1260/		1950 FT.OF 6" PE - 6TH ST RELOC. PART A - B.G.	Specific	47 684 15						
Outbold PARTR 8 - GTH ST. BYPASS RELOC - B.G. Specific 42.302.21 98.1200 15.122.00 59.1700 1992.295 59.124 2.55.100 2.55.100 2.55.100 2.55.100 2.55.100 2.55.100 2.55.100 2.55.124 2.55.100 2.55.124 2.55.100 2.55.124 2.55.100 <	OrdeRefit IS BYPASS - B PARTR B - 6TH ST BYPASS - B PARTR B - 6TH ST BYPASS - B PARTR B - 6TH ST BYPASS RELOC - 8G Specific 42:302.22 98:10.00 19:32:93 98:10.10 19:30 14:30:10 14:30:10 14:30:10 14:30:10 14:30:10 14:30:10 14:30:10 14:30:10 14:30:10 15:30:12 14:30:10 15:30:12 14:30:10 15:30:12 14:30:10 15:30:12 14:30:10 15:30:12 14:30:10 <	ZUU5 4U. 12000	040.BGR.GTH ST BYPASS - A	950 FT. OF 6" PE - 6TH ST RELOC. PART A - B.G.	Specific	64.725.01				_		
pdi/BR 61H ST BYPASS - B PARTR B - 61H ST BYPASS - B(C) Bac(fic) 192329.95 56.1/10.0 3986/01.04 19292.95 9.46(0.0) 3986/01.96 9.496(0.0) 9.406(0.0) 9.406(0.	pdd:B6K eTH ST BYPASS - B pARTR B - 6TH ST BYPASS RELOV - BG, conditioned and reaction condition conditioned and reaction condition conditioned and reaction condition condition condition conditioned and reaction condition conditing conditing condition condition condition condition conditan condi	2000 40. 12000	040 RGR 6TH ST BYPASS - B	PARTR B - 6TH ST. BYPASS RELOC - B.G.	Specific	42,302.22						
dol 12811 Ond BGR GHT BT RYASS- C PART C - FIFT I BYASS- B.G. Onter C - FIFT I BYAS Onter C - FIFT I BYASS- B.G. Onter C - FIFT I BYAS Onter C - FIFT I BYASS Onter C - FIFT I BYASS Onter C	(1) (1) <td>2006 40.1261</td> <td>040.BGR.6TH ST BYPASS - B</td> <td>PARTR B - 6TH ST. BYPASS RELOC - B.G.</td> <td>Specific</td> <td>19,929.96</td> <td></td> <td></td> <td></td> <td></td> <td></td>	2006 40.1261	040.BGR.6TH ST BYPASS - B	PARTR B - 6TH ST. BYPASS RELOC - B.G.	Specific	19,929.96						
40.12511 Operating Specific	0.12611 0.00 BGK GHY FARNS. ² C Name U. C. PTI V. C. PTY Name. B. C. Specific 9,496 (0) 9,346 (0) 9,326 (0) 2,525 (0) 14,346 (0) 9,321 (1) 2,525 (0) 2,525 (0) 2,525 (0) 2,525 (0) 2,525 (0) 2,525 (0) 2,525 (0) 2,521 (2) 2,525 (0) 2,521 (2) 2,521 (2) 2,521 (2) 2,521 (2) 2,521 (2) 2,521 (2) <td>2005 40.12611</td> <td>1_</td> <td>PART C - 6TH SI. BYPASS - B.G.</td> <td>Specific</td> <td>43,587.92</td> <td></td> <td></td> <td></td> <td></td> <td></td>	2005 40.12611	1_	PART C - 6TH SI. BYPASS - B.G.	Specific	43,587.92						
40.12512 040.BGR GARY FARMS 2" EXI 3200 FT / 0" 2" PE - GARY FARMS - B.G. 448.48 / 14.84 / 16 1339.42 / 1562.42 / 14.484 / 16 40.12513 040.BGR GARY FARMS 2" EXI 3200 FT / 0" 2" PE - GARY FARMS - B.G. Specific 15.82.43 / 14.484 / 16 1339.42 / 1562.42 / 1562.12 / 1522.12 / 1562.12 / 1522.12 / 1562.12 / 1562.12 / 1522.12 / 1562.12 / 1522.12 / 1562.12 / 1562.12 / 1562.12 / 1562.12 / 1562.12 / 1562.12 / 1522.12 / 1562.12 / 1522.12 / 1562.12 / 1522.12 / 1562.12 / 1562.12 / 1522.12 / 1562.12 / 1522.12 / 1562.12 / 1552.12 / 1562.12 / 1552.12 / 1562.12 / 1552	40.12612 000.BGR.GARY FARMS 2" EX1 3300 FT OF 2" FE GARY FARMS 2" EX1 3300 FT OF 2" FE GARY FARMS 2" EX1 3300 FT OF 2" FE GARY FARMS 2" EX1 1484.46 1527.20 1444.46 1257.30 1486.43 2555.00 1448.45 2555.00 1448.45 2555.00 1448.46 2557.12 1236.12 <th1236.12< th=""> <th< td=""><td>2006 40.12611</td><td></td><td>PARI C - 61H 31. BTPA33 - 8.9.</td><td>Specific</td><td>9,499.69</td><td></td><td></td><td></td><td></td><td></td></th<></th1236.12<>	2006 40.12611		PARI C - 61H 31. BTPA33 - 8.9.	Specific	9,499.69						
040.BGK.GMY Common Zero Common Zero <thcommon th="" zero<=""> <thcommon th="" zero<=""></thcommon></thcommon>	Old BGK GAYT FANIDS - 2 FE for 43 mw residential lots Specific 10, 20, 40, 41, 46, 45 14, 446, 45 14, 446, 45 14, 446, 45 14, 446, 45 14, 446, 45 14, 446, 45 14, 446, 45 15, 255, 00 164, 20 15, 255, 00 164, 20 15, 255, 00 166, 13 2, 555, 00 166, 13 2, 555, 00 166, 13 2, 555, 00 166, 13 2, 555, 00 166, 13 2, 555, 00 166, 13 2, 555, 00 166, 13 2, 555, 00 166, 13 2, 555, 00 166, 13 2, 555, 00 166, 13 2, 556, 00 166, 13 2, 552, 10 10, 200 16, 13 166, 163 2, 552, 10 10, 200 166, 13 166, 163 166, 163 166, 163 166, 163 166, 163 166, 163 166, 163 166, 163 166, 163 152, 124 152, 124 152, 124 152, 124 152, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124 153, 124	2005 40.12612		2200 F1. 01 2 1 E - 3000 F1. 01 2 1 E - 3000 F1. 02 2 1 E - 3000 F1 2 2 1 E - 3000 F1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Specific	450.33		_				
Indom/metadow Subscription Section Gent of the section Section <thsection< th=""> Sectin Se</thsection<>	Odu/MMY: Meadow Subd Rev Ext 3600 27 FE for 43 2525.00 1961.43 4486.43 2555.00 1961.43 2555.00 1961.43 4486.43 2.525.00 1961.43 4486.43 2.525.00 1961.43 4486.43 2.525.00 1961.43 4486.43 2.525.00 1961.46 5.521.24 2.525.00 1961.46 5.521.24 <th5.561.60< th=""> 5.521.24 5</th5.561.60<>	2006 40.12612		320011:01 2.12 0.20 0.13 0.20 0.12 0.12 0.12 0.12 0.12 0.12 0.12	Specific	10,024.20		1-				
00.17513 000LMM/meadow 000 - 2° Te pipe for four existing customers and one new construction Specific 164.24 5.525.00 (2.360.76) 4.650.67 5.521.24 0.017514 000LMM/meadow 800 - 2° Te pipe for four existing customers and one new construction Specific 164.24 5.521.24 3.040 8.551.24 5.521.24 0.12615 AKY TCSSVC.MEAS.EFM.TOYDETSU EFM INSTALLATION @ 10YOTETSU MID AMERICA Specific 8,561.24 5.521.24 2.75.16 5.521.24 0.12616 AKY TCSSVC.MEAS.EFM.TOYDETSU IFM INSTALLATION @ 10YOTETSU MID AMERICA Specific 5,791.20 5,571.24 5.571.24 5.571.24 5.521.24 0.12616 AKY TCSSVS.MEAS.FEM.NOTETSU INSTALL EFM @ NESTAWAY NISTALL EFM @ NESTAWAY 8561.64 5.521.24 5.571.24 2.751.66 5.571.24 5.571.24 5.571.24 5.571.24 5.571.24 5.571.24 5.571.24 5.571.24 5.571.24 5.571.24 5.571.24 5.571.24 5.571.24 5.571.24 5.791 5.571.24 5.571.24 5.791 5.791 5.791 5.791 5.791 5.	0.0.12613 0.00.MM/meadow 0.00 2.7° E ppe for four existing customers and one new construction Specific 1.64.24 5.521.24 3.60.76 4.650.77 2.522.00 0.12614 0.00.MM/meadow 0.002° TE pipe for four existing customers and one new construction Specific 8,561.24 5.521.24	2005 40.12613		3,000 2. 1 2 rev residential lots	Specific	1 A ARE 43						
Out 12614 Out PADLydom RF ker kit B00 ⁻ - 2 ⁻ PE pipe for four existing customers and one new construction Specific 8,561.24 5,521.24 5,561.24 5,521.24	AUXILITATION BC0 - 2" PE pipe for four existing customers and one new construction Specific 8,561.24 5,521.24	2006 40.12615	3 040.MAY.Meadow Subu hev Lov	800' - 2" PE pipe for four existing customers and one new construction	Specific	164.24					2,12	
Outside AirV: TGSSVC.MEAS.EFM. TOYOTETSU EFM INSTALLATION @ TOYOTETSU MID AMERICA Specific (37.38) 5.521.24 (5.5662) 8.523.385 5.521.24 (5.5612) 8.523.385 5.521.24 (5.5612) 8.523.385 5.521.24 (5.5612) 8.523.385 (5.51.24) (5.5612) 8.523.385 (5.51.24) <td>0.12615 AirV.TGSSVC.MEAS.EFM.TOYOTETSU EFM INSTALLATION @ TOYOTETSU MID AMERICA 5 pecific (37.38) 5 551.24 (5.556.62) 8 5521.34 5 521.24 (5.56.62) 8 5521.24 5 521.24 (5.531.64) (5.56.62) 8 5521.24 (5.531.64) (5.56.62) 8 5521.24 (5.521.24) (5.56.12) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.56.12) (5.521.24) (5.521.24) (5.56.12) (5.521.24) (5.56.12) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.56.12) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.56.12) (5.521.24) (5.521.24) (5.61.24) (5.521.24) (5.61.24) (5.56.12) (5.56.12) (5.521.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (6.61.24) (6.61.24) (6.61.24</td> <td>₽I5</td> <td>1 DAD PAD I vdon Rd Rev Ext</td> <td>T</td> <td>Snecific</td> <td>8,561.24</td> <td></td> <td></td> <td></td> <td></td> <td>000</td>	0.12615 AirV.TGSSVC.MEAS.EFM.TOYOTETSU EFM INSTALLATION @ TOYOTETSU MID AMERICA 5 pecific (37.38) 5 551.24 (5.556.62) 8 5521.34 5 521.24 (5.56.62) 8 5521.24 5 521.24 (5.531.64) (5.56.62) 8 5521.24 (5.531.64) (5.56.62) 8 5521.24 (5.521.24) (5.56.12) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.56.12) (5.521.24) (5.521.24) (5.56.12) (5.521.24) (5.56.12) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.56.12) (5.521.24) (5.521.24) (5.521.24) (5.521.24) (5.56.12) (5.521.24) (5.521.24) (5.61.24) (5.521.24) (5.61.24) (5.56.12) (5.56.12) (5.521.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (5.61.24) (6.61.24) (6.61.24) (6.61.24	₽I5	1 DAD PAD I vdon Rd Rev Ext	T	Snecific	8,561.24					000	
Answer Specific 5,797,00 5,521.24 275,76 5,571.24 275,76 5,571.24 5,571.24 5,571.24 5,571.24 5,571.24 5,571.24 5,571.24 5,571.24 5,571.24 5,571.24 5,571.24 5,571.24 5,571.24 5,571.24 2,761.36 5,571.24 5,571.24 2,761.36 5,571.24 2,662.36 3,7180.73 3,751.36 5,521.24 3,7578.36 3,7180.73 40.12517 0401.LWO KIELLYS-HWY 44 INSTALL 1000 GF 4" FE ON HWY 44 FOR O'RIELLYS AUTO PARTS Specific 15,518.04	Outside Strong 5,571.24 275.06 5,571.24 275.76 5,571.24 276.86 6,551.24 5,571.24 276.86 6,551.24 5,571.24 16,565.00 40.12616 AKY TCSSV MEAS EFM MESTAWAY INSTALL EFM Ø NESTAWAY INSTALL 2FM Ø NESTAWAY INSTALL 2FM Ø NESTAWAY 18,565.01 14,576.96 5,571.24 266.66 5,710 7,800 19,585.00 40.12617 0401.AW ORELLYS HWY INSTALL 1000 OF 4" PE ON HWY 44 FOR ORELLYS AUTO PARTS Specific 35,588.89 37,180.73 37,578.86 37,180.73 37,578.86 37,180.73 37,578.80 37,578.80 37,480.73 37,578.80 37,480.73 37,578.80 37,480.73 37,578.80 37,578.80 37,480.73	귀둑	E AKY TCSSVC MEAS EFM, TOYOTETSU	Γ	Snecific	(37.38			8,52	4		
40.15616 AKY.TCSVS.MEAS.EFM.NESTAWAY INSTALL EFM @ NESTAWAY NISTALL FOR Ø NESTAWAY	40.15616 AKY. TCSVS.MEAS. EFM. NESTAWAY INSTALL EFM @ NESTAWAY NSTALL EFM NESTAWAY NSTALL EFM @ NESTAWAY NSTALL EFM NESTAWAY NSTALL EFM NESTAWAY NSTALL EFM NESTAWAY NSTALL EFM 00.12 11,400.05 16,565.00 1856.00 16,565.00 1856.00 16,677.10 14,746.78 18,565.00 37,180.73 37,180.73 37,180.73 37,180.73 37,180.73 37,180.73 37,180.73 37,160.73	2005 40.12615			Specific	5,797.00						
40.12616 AKY.TCSVS.MEAS.EFM.MESTAWAY INSTALL tende (18.1.000) 14.746.78 15.85.00 16.365.10 14.746.78 16.365.00 16.365.00 16.365.00 16.365.00 16.365.00 16.365.00 16.365.00 16.365.00 16.365.00 16.365.00 16.365.00 16.365.00 17.46.78 16.365.00 17.46.78 16.365.00 17.46.78 16.365.00 17.46.78 16.365.00 17.46.78 16.365.00 17.46.78 16.365.00 17.46.78 17.867.190 17.47.46 18.365.00 17.46.78 17.867.190 17.46.78 18.365.00 17.46.78 18.365.30 17.46.78 18.365.30 17.46.78 18.365.30 17.46.78 18.365.30 18.365.30 18.365.30 18.365.30 18.365.30 17.46.78 18.365.30 18.37.48.73 18.365.30 18.37.48.73 18.365.30 17.46.78 18.365.30 18.365.30 18.365.30 17.46.78 18.365.30 18.37.60 17.46.78 18.365.30 18.37.60 18.365.30 18.37.60 18.365.30 18.37.60 18.365.30 19.37.57.88 37.480.73 37.57.88	40.12616 AKY.TCSVS.MEAS.EFM.MESTAWAY INSTALL term @ NEXTULET MESTALL term @ NEXTULET MESTAL toto 0F 4" FE ON HWY 44 FOR OTRIELLYS AUTO PARTS Specific 14,517.90 15,561.94 3562.88 37,180.73 3576.88 37,180.73 37,510.73 37,510.8	2005 40.12616			Specific	5,781.36						
40.12617 040.LAW ORIELLYS-HWY 44 INSTALT 1000 UF 4 FE ON HWY 44 FOR ORIELLYS AUTO PARTS Specific 14,517.90 18,565.04 57,180.73 555.658.89 37,180.73 555.658.89 37,180.73 555.658.89 37,180.73 555.658.89 37,180.73 555.658.89 37,180.73 555.658.89 37,180.73 555.658.89 37,180.73 555.658.89 37,180.73 555.658.89 37,180.73 555.658.89 37,180.73 557.883 37,180.73 578.83 37,180.73 55.230.79 37,578.83 37,180.73 16,402.00 40,402.00 40,402.00 40,402.00 55.230.79 37,578.83 37,180.73 16,402.00 40,402.00	40.12617 040.LAW ORIELLYS-HWY 44 INSTALT 1000 CF 4* FE ON HWY 44 FOR ORIELLYS AUTO PARTS Specific 14,517.90 19,505.04 -1551.94 -35628.89 37,160.73 40.12617 040.LPM VA INSTALT 1000 CF 4* FE ON HWY 44 FOR ORIELLYS AUTO PARTS Specific 35,562.88 37,160.73 -1551.94 -35628.89 37,160.73 -1551.94 -3578.83 37,180.73 -1551.94 -35628.89 37,180.73 -1551.94 -3578.83 37,180.73 -1551.94 -37,180.73 -1561.73 -1551.94 -37,180.73 37,180.73 -1551.94 -37,180.73 -37,180.73 37,180.73	2006 40.12616		-	Specific	228.86						
40.12617 040.LAW ORIELLYS-HWY 44 Installar user out or a second or a	40.12617 040.LAW ORIELLYS-HWY 44 INSI PLAL 1000 UF 11 Not PLAL 1000 UF 1000 UF 11 Not PLAL 1000 UF 10000 UF 1000 UF 1000 UF 10000 UF 1000 UF 1000 UF 1000 UF 10000 UF 10000 UF 1000 UF 1000 UF 1000 UF 10000 UF 1000 UF 1000 UF 10000 UF 10000 UF 1000 UF 10000 UF 10000 UF 10000 UF 1000	2005 40.1261		T	Specific	14,517.90		1				
Odd. PTON.Crayne Sys imp Instant syn capacity regulator, 2,500 - 2" PE, convert 18 services from HPD to d Specific 1,949.34 01,020.00 594.1 9707.9 10,402.00 040. PTON.Crayne Sys imp Install stan capacity regulator, 2,500 - 2" PE, convert 18 services from HPD to d Specific 9,707.90 10,402.00 -694.1 9707.9 10,402.00 040. BEND LAND II 2862 FT OF 2" PE - RIVER BEND II - B.G. Specific 9,707.90 10,402.00 -694.1 9707.9 10,402.00	Odd. PTON. Crayne Sys imp Instant approximation approximation approximation (2,500 - 2") PE, convert 18 services from HPD to d Specific 1,949.30 0,102.00 594.1 9707.9 10,402.00 040. BCR. RIVER BEND LAND II 2852 FT OF 2" PE - RIVER BEND II - B.G. Specific 9,707.90 10,402.00 -694.1 9707.9 10,402.00	2006 40.1261		Install run canacity requilator 2 500' - 2" PE, convert 18 services from HPD to d	Specific	35,628.85		Ċ				
UGULTION. GIORE BEND LAND II 2852 FT OF 2" PE - RIVER BEND II - B.G. 1040.BGR.RIVER BEND II - 1040.BGR.RIVER BEND LAND II 2852 FT OF 2" PE - RIVER BEND II - B.G.	1040. FUN. GRIPE 335 mm [2852 FT OF 2" PE - RIVER BEND II - B.G. [2852 FT OF 2" PE - RIVER BEND II - B.G.	2005 40.1261		Install sm capacity regulator, 2,500' - 2" PE, convert 18 services from HPD to d	Specific	1,949.34 0 707 9(_					
		2006 40.1261		2852 FT OF 2" PE - RIVER BEND II - B.G.	Specific	1010 T						
		70001-00-0007	1									

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Base Period Forecasted Period

Revised Data:_____Base Period _____Forecasted Perio Type of Filing:___X__Original ____Updated ___

Witness Responsible: R. Cook

· (a)oN essentiation of the second se	o No(c) · KPSCDR-2 Item 16b ATT	Functional and Specific Projects				-	1		
			Functional or	Actual Cost in Referenced Fiscal Year	Original P&N Estimate	Variance In Dollars	Total Actual Project Cost	Total P&N Cost Estimate	Variance in Dollars
FISCAL Vear Project Nn			Openiio i rujevi Procifio	73 630 77	23,780.00	-149.23	23630.77	23,780.00	-149.23
-1	IOAD BCP FIFI DSTONE IV	Ü	Specific	11 196 34	11.274.00	-77.66	11196.34		-77.66
2000 40.1202 2005 40 12621	T 040 BGR HOPK, PIERCING TOOL	L - HOPKINSVILLE	Snecific	32,539.97	40,607.60	-8067.63	32539.97	40,607.60	-805/00-
2005 40 12622	040.0B0.B0ETLER RD. ODORIZER		Specific	6,567.83	40,607.60	(34,039.77)	0.01.01,85		100.001
2006 40 12622	040.0BO.BOETLER RD. ODORIZER		Specific	9,048.90	7,161.00	1887.9	9048.9	101.101,1	7520 4
2005 40.12623	040.MAD.BUTT FUSE MACHINE	PURCHASE 2"- 4"BUTT FUSE MACHINE	Specific	17,267.53	19,806.93	-2539.4	55./97/1		-1084 47
2005 40 12624	040.OBO.SYCAMORE ST.	2 LE	Specific	2,188.43	3,272.90	-1084.47	2188.43	00 900	752 43
2005 AD 12627	1040 MAD.BROWN ROAD		Snecific	1,311.57	2,064.00	-752.43	13.115L		01.001-00
2005 40 12628	1040 MAD.PIN OAK LN.		Specific	1,119.98	24,288.00	-23168.02	1119.98		20100102-
2003 40.12020	Envineering Documents		Specific	9.026.60	15,493.72	-6467.12	9026.6		121.1040-
ZUU3 40, 12023	DAD MAD Meadowhrook Estates	INSTALL 2,412' 2'' PE	Chanifin	384.95	15.493.72	(15,108.77)	9,411.55		(P,UBZ.T/)
2005 40.1203	040.WMAD.Weddowbiook Control		opening	77 607 70	48 124 48	29483.22	77607.7		29483.22
	U4U.INIAU.INIEduuwuluuk Latataa	cessories for the new Mayfield, KY office	Specific	AC 811 7	48 124 48	(41.006.22)	84,725.96		36,601.48
2005 40.12631	INTERPORT	eld, KY office	Specific	00 101 10	00 400 20				-6799.48
2006 40.12631	040.MAY.New Utilce Accessories	Ö	Specific	70.400,02	00 100 17	140 AA7 861			1,136.66
2005 40.12632	040.BGR.IVAN DOWNS PHSE.I		Specific	7,936.14	21,304.00		16447 91		-3262.09
2006 40.12632	040.BGR.IVAN DOWNS PHSE.I	- B.G.	Specific	16,442.91	18,100,01		6387 86	4 249.71	2138.15
2005 40.12633	040.BGR.BAILEY'S FARM PHSE I		Specific	6,387.86	4,249.71		00.1000		3 287 61
2005 40.12634	040.BGR.OXFORD CENTER		Specific	1,149.46	4,249./1		20.100,1	R1 799 99	25228.78
2006 40.12634	040.BGR.OXFORD CENTER		Specific	107,028.77	81,799.99			1	34 811 53
2005 40.12635	040.0B0.21ST. & ALLEN REPLMNT.		Specific	9,582.75	81,799.99	(72,217.24)	61	_	02.10,FC
2006 40 12635	040.0B0.21ST, & ALLEN REPLMNT.		Specific	8,869.98					2 334 RG
2005 AD 12637	akv tossvo meas. Amfine EFM		Snecific	(13.88)			8,856.10	9,321.24	0,004.00
2002 40 40 2023	1	Installation of EFM @ Amfine Chemical	Sharifir	10.697.88				_	-12/2/-12
2000 401 12000	Т	OU IN GREENSBURG	Concifio	75.85			10,7		(17.100,21)
2000 40 40630	DAD CAM CREENSRING STATION	INSTALL REGULATOR STATION ON TUNNEL RAOD IN GREENSBURG	Specific	100 000 27		-9300		7,300.00	-9300
2000 40.12030	-	BYPASS	openilo	R 063 00		L	6,063.09		(1,236.91)
2005 40.12639	-	INSTALL 1500' OF 2" FROM HWY 527 TO C-VILLE BYPASS	opecific	6 023 05	3 605 00		6023.05		2418.05
2006 40.12639	T	2254 FT OF 2" PE - CRIMSON RIDGE - B.G.	Specific	10 202 861			3,700.19		95.19
2005 40.1264		2254 ET 0F 2" PE - CRIMSON RIDGE - B.G.	Specific	12,022.001	ſ	-3125.44			-3125.44
2006 40.1264	1040.BGK.CKIIVISOIN KILUGE	Install additional marker post on right-of-ways	Specific	21,014,00		Ĺ			(2,308.29)
2005 40.12641	Marker Post	hetell additional marker post on right-of-ways	Specific	01.10	5 571 7A	1			-1900.97
2006 40.12641	Marker Post	Installation of FEM @ Holly Performance Prod.	Specific	3,020,6					(1,906.48)
2005 40.12642		Instantation of EEM @ Holly Performance Prod.	Specific	(10.0)					(5,578.48)
2006 40.12642	-	Province of the second se	Specific	10,101,02			13508.69	9 14,396.00	-887.31
2006 40.12643	-	Doutshle moithire analyzer	Specific	50'00'0'1	14,306,00	113 334 561		ľ	174.13
2005 40.12644	-	Putable moletine analyzer	Specific	1,001.44			2173.19		-4881.81
2006 40.12644		Putiaule invisione analyzed	Specific	2,1/3.19				7.055.00	(4,799.91)
2005 40.12645		Install anotes on the Hartford/Reaver Dam Line		81.90	00.001/	2002 801	73004 31		-7095.69
2006 40.12645	040. Storage Anodes	Install alones of the representation of the standard sta	a Specific	/3,004.31		_			
2005 40.12646		INSTALL 3300 OF 2 FL, 1000 OF 4 FL, 100 OF 4 FL, 100 OF 4 FL, 100 FL, 100 FOR NOTTING HILLS PH 1a		935.38		_	166AA 45		
2006 40.12646				16,644.45	17,719.00				
2005 40.12647	040.BGR.GLS.HART CO.IND. 4" PE	24/5 FL. UF 4' FE - FIART COUNTLINGOUNDED	Specific	3,534.06		48.0.84			(2 708.16)
2005 40.12648		INSIGHT 1400 Z-PE TON 12 FOTS	Specific	2,207.78			10.141,0		
2006 40.12648	-		Specific	3,093.84				3 109.00	
2005 40.12649	-	Retire a portion of the Califouri o Utarlie Utip	Specific	2,476.64	_	(632.30)			ľ
2006 40.1265	\vdash	1250 FT. OF 2" PE - BYPASS @ WALIWARI -	Specific	24,326.91	36,979.80		H 24320.31		Ľ
2005 40 12651	1		Specific	40.04		99			1
2006 40 12651	Т		Specific	3,443.87					7350 AG
2005 40 12652	Т		Specific	154.56		2 -2359.46		00 Z'314'0Z	ľ
2005 40 12653	Т	ŝ	Specific	5.85					10.000(2)
2006 40 12653	Т	Install 200' - 2" P.E for one new residential customer	Snecific	(132.12)			3 -132.12		
2000 TO 12654	T	Install 550' - 2" P.E for new Mercy Regional EMS	Specific	9,350.98	16,275.66			00'C/Z'QL 96	
2005 40 12655	1	INSTALL 364' 4" PE	Snecific	(370.30		(16			100-102-11
2006 40 12655	T	INSTALL 364' 4" PE	Snarific	16.212.19		0 -111.81		19 10,324.00	1
2000 40 40 12000		new backhoe trailer/ Interstate 18DT GVW 23,500 lbs.	Spacific	(10.745.03)	3) 2,700.00				
2005 40 40 12030	T	INSTALL 900' OF 2" PE ON HWY 55 FOR LOWES	Sharifir	17.972.38		0 15,272.38	~	35 2,700.00	
ZUU0140.12009		INSTALL 900' OF 2" PE ON HWY 55 FOR LOWES	Concific	10 188 10			9 10188.		_
2000 40, 12033		REPLACE 6" CAST IRON AND 2" STEEL MAIN	Openito	102 295 45	5 153,850.00	0 (51,554,55)	5) 112,483.55		(41,366.45)
2007 1 2007		REPLACE 6" CAST IRON AND 2" STEEL MAIN	opening	1021201					
2006/40.1200									

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Atmos Energy Corporation (Kentucky Division) Case No. 2006-0444 Construction Projects Fiscal Years 2004 - 2005

Data: Base Period Forecasted Period

Type of Filing: X Original Updated Revised

Norkpaper Reference No(s).: KPSCDR-2 Item 16b ATT Functional and Specific Projects

Witness Responsible: R. Cook

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			Functional or	Actual Cost in Referenced	Original P&N	Variance In	Total Actual	Total P&N Cost	Variance in
Tear Project No.	. I r	Project Title / Description	Specific Project	FISCAI YEAL	Estimate	Dollars	Project Cost	Estimate	Dollars
	040.SHV.BROWN-CI SERVICES		Specific	16,241.21	110,300.00	-94058.79	16241.21	110,300.00	-94058.79
	040.SHV.BROWN-CI SERVICES		Specific	66,580.01	110,300.00	(43,719.99)	82,821.22	110,300.00	(27, 478.78)
2006 40.12662	040.SHV.CARD CLUB-LINKS	INSTALL 2" PE ON LINKS DR IN CARDINAL CLUB	Specific	14,084.44	15,950.00	(1,865.56)	14,084.44	15,950.00	(1,865.56)
		150 FT. OF 2" PE - WILHELM RD RUSS	Specific	907.35	1,886.00	(978.65)	907.35	1,886.00	(978.65)
2005 40.12667	040.BGR.THE OAKS II - B.G.	265 FT. OF 2" PE - THE OAKS II - B.G.	Specific	319.06	1,451.00	-1131.94	319.06	1,451.00	-1131.94
2005 40.12669	040.CAM.IMI - HWY 68	INSTALL 2000' OF 2" PE FOR IMI CONCRETE ON HWY 68	Specific	10,952.61	2,100.00	8852.61	10952.61	2,100.00	8852.61
	040.CAM.IMI - HWY 68	CONCRETE ON HWY 68	Specific	(7,809.72)	2,100.00	(9,909.72)	3,142.89	2,100.00	1,042.89
2005 40.1267	040.CAM.TRAILER 14'		Specific	2,672.17	4,400.00	-1727.83	2672.17	4,400.00	-1727.83
2005 40.12673	040.MAY.Lot Sedalia TB	Purchase 10 x 15 lot for \$1,308 from Graves Bd of Education	Specific	2,085.98	2,877.60	-791.62		2,877.60	-791.62
2005 40.12674	040.BGR.RUSS WAL-MART RELOC	1130 FT. OF 2" PE RELOCATION - WAL-MART - RUSS	Specific	877.79		877.79	877.79	,	877.79
2006 40.12674	040.BGR.RUSS WAL-MART RELOC	1130 FT. OF 2" PE RELOCATION - WAL-MART - RUSS		(8,834.35)	(00.0)	(8,834.35)	(7,956.56)	(00.0)	(7,956.56)
	040. Storage Trailer	Purchase lawn mower trailer for St. Charles Storage	~	1,512.98	2,090.00	-577.02	1512.98	2,090.00	-577.02
2006 40.12676	040.DAN.HUBLE RD-HILLTOPPER	INSTALL 500' OF 2" PE ACROSS HUBLE RD AT HILLTOPPER IN STANFORD FOR SYSTEM		6,783.62	6,950.00	(166.38)	6,783.62	6,950.00	(166.38)
	040.SHV.DUMP BED - 2 TON TRUCK	INSTALL DUNP BED ON 2 TON TRUCK		11,033.54	24,300.00	-13266.46	11033.54	24,300.00	-13266.46
	David Lashbrook MEC Forfeiture	David Lashbrook MEC Forfeiture	Specific	(4,984.00)	Not Budgeted		4984	Not Budgeted	
2005 40.12681	Patrica Higdon MEC Forfeiture	Patrica Higdon MEC Forfeiture	Specific	(308.00)	Not Budgeted	-	-308	Not Budgeted	
	Joseph Isbill MEC Forfeiture	Joseph Isbill MEC Forfeiture	Specific	(6,011.00)	Not Budgeted		-6011	Not Budgeted	
2005 40.12683	Stonecrest MEC Forfeiture	Stonecrest MEC Forfeiture	Specific	-	Not Budgeted	-	-3941	Not Budgeted	
2005 40.12684	Jarret Embry MEC Forfeiture	Jarret Embry MEC Forfeiture	Specific	(4,111.00)		_	4111	Not Budgeted	
	Norma Taylor MEC Forfeiture	6	Specific	(2,238.90)			-2238.9	Not Budgeted	
ZUUD 4U.12686	Brice Leech MEC Forfeiture		Specific	(2,236.00)	Not Budgeted			Not Budgeted	
2005 40.1268/	Joe Wallace MEC Forteiture	Joe Wallace MEC Forteiture	Specific	(15,056.00)	Not Budgeted		_	Not Budgeted	
	Wallace Computer MEC Fort	2010 10 10 10 10 10 10 10 10 10 10 10 10	Specific	(3,770.52)	Not Budgeted	-	-3770.52	Not Budgeted	
2005 40.12689	Leonard Worth MEC Forfeiture	ure	Specific		Not Budgeted		-31804.01	Not Budgeted	
2005 10 1269	Ken Daniel MEC Forteiture	Ken Daniel MEC Forfeiture	Specific	(4,824.00)	Not Budgeted	-	-4824	Not Budgeted	
4	Ronald Simmons MEC Forf	Ronald Simmons MEC Forf	Specific	(2,056.00)	Not Budgeted	-		Not Budgeted	
2005 40.12692	Super America MEC Forteiture	Super America MEC Forfeiture	Specific		Not Budgeted	-		Not Budgeted	
	David Howerton MEC Forfeiture	ſē	Specific		Not Budgeted		-613		
	Daviess BU of EUU MEC FOIT		Specific		Not Budgeted	-	-3955		
2002 40.12630	Randy Lerry MEC Forteiture		Specific		Not Budgeted		-44/9		
2002 40.12696	Greg Carmon MEC Forteiture	والمنافع والمحافظ والمح	Specific		Not Budgeted	_	-1478	Not Budgeted	
ZUUD 40.1269/	LEUGENE HOWARD MEC FOREITURE	ure	Specific		Not Budgeted		E/-	Not Budgeted	
2002 40.12698	Michelie Calloway MEC Fort	ووو و و و و و و و و و و و و و و و و و	Specific		Not Budgeted		-1731	Not Budgeted	
2005 40.12699	K/C/Gresham MEC Forteiture		Specific		Not Budgeted		6E-	Not Budgeted	
2005 40.127	Stanford Wood Prod MEC Forf	Stanford Wood Prod MEC Forf	Specific	203.00)	Not Budgeted		-12203		
	Chris/Linda Spears MEC Forfeit	ji	Specific	-	Not Budgeted		6662-		
2005 40.12/02	Eugene Hatley MEC torteiture	E .	Specific	(568.00)	Not Budgeted			Not Budgeted	
2002 40.12/03	Chris Coyle MEC Forteiture		Specific	_	Not Budgeted		_	Not Budgeted	
2005 40.12/04	Hunters Pointe Dev MEC Forteit	eit	Specific		Not Budgeted		-10646	Not Budgeted	
CU121.04 CU12			Specific		Not Budgeted		£962-	Not Budgeted	
2002 40.12/00	Enderio Manage MEC Forfeiture		Specific		Not Budgeted		-023	Not Budgeted	
	Repetitivelend/McClone MEC For	I require Mayes MICU For MECU For	Specific		Not Budgeted		040-	Not Dudgeted	
2005 40 1274	Canton Pike Gro MEC Enfeiture	Canton Dika Con MEC Endaitura	Specific	(1 210 000	Not Budgeted		E017-	Not Budgeted	
2005 40 12711	John Samsil MFC Forfeiture	John Samsil MFC Forfaiture	Specific	11 030 301	Not Budgeted			Not Budgeted	
	Lerome Paul Havnes MFC Forf	Jerome Paul Havnes MFC Forf	Specific		Not Budgeted		1113	Not Budgeted	
2005 40.12713	Patrick Dirito MEC Forfeiture	Patrick Dirito MEC Forfeiture	Specific		Not Budgeted		-5321	Not Budgeted	
2005 40.12714	Jarrett Embry MEC Forfeiture	Jarrett Embry MEC Forfeiture	Specific	+	Not Budgefed		4111	Not Budgeted	
2005 40.12715	Mike Duvall MEC Forfeiture	Mike Duvall MEC Forfeiture	Specific		Not Budgeted		-632	Not Budgeted -	
2005 40.12716	Bob Lindsey MEC Forfeiture	Bob Lindsey MEC Forfeiture	Specific		Not Budgeted		-182	Not Budgeted	
2005 40.12717	US 62 MEC Forfeiture	US 62 MEC Forfeiture	Specific	(16,047.00)	Not Budgeted		-16047	Not Budgeted	
4	Smith Grove Dev MEC Forfeit	Smith Grove Dev MEC Forfeit	Specific	(1,042.00)	Not Budgeted		-1042	Not Budgeted	
2005 40.12719	David Gardner MEC Forfeiture	David Gardner MEC Forfeiture	Specific	(499.00)	Not Budgeted		-499	Not Budgeted	
2005 40.1272	Smith Grove Dev #2 MEC Forfeit	Smith Grove Dev #2 MEC Forfeit	Specific		Not Budgeted		-	Not Budgeted	
2005 40.12/21	Consolidated Grain MEC Forteit	Consolidated Grain MEC Forfeit	Specific		Not Budgeted	-	-8005	Not Budgeted	
2005 40.12/22	Harold Hankins MEC Forfeiture	Harold Hankins MEC Forteiture	Specific	(285.00)	Not Budgeted		-285	Not Budgeted	
57/21.04 conz	Boyce Allen MEC Forteiture	Boyce Allen MEC Forteiture	Specific	[<u>4</u> 10.00]	(410.00) Not Budgeted	_	410	Not Budgeted	

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Atmos Energy Corporation	(Kentucky UIVISIOn)
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Case No. 2006-00464 Construction Projects Fiscal Years 2004 - 2006

12°	Priod Forecasted Period						c	and a Cook	
Type of Filing: A. Uriginal Worknaper Reference No(s).:	KPSCDR-2 Item 16b	Functional and Specific Projects						2	
	11		Functional or	Actual Cost in Referenced	Original P&N Estimate	Variance In Dollars	Total Actual Project Cost	Total P&N Cost Estimate	Variance in Dollars
Fiscal Year Project No.		Project Title / Description	Specific Specific	(3,729.00)	Not Budgeted -		-3729		
1	Kavo Mullen MEC Forfeiture	Kayo Mullen MEC Forfeiture	Specific	(89.00)	Not Budgeted -		-89	Not Budgeted	
2005 40.12725	Ronnie Peck MEC Forfeiture	Ronnie Peck MEC Forteiture	Specific	(00.786)			10e-		
2005 40.12726	Larry Sanderson MEC Forfeiture	Larry Sangerson MEC Environment	Specific	(359.00)			-897	Not Budgeted	
2005 40.12728	A G Weldon MEC Forfeiture	A G VVEIDON INEC FUTERIUS	Specific	(00.768)			-1272	Not Budgeted	
	Leonard Crowell MEC Forteiture	Leonald Crowell MLC Forfeiture	Specific	(00.272.1)	Not Budgeted		-3287	Not Budgeted	
2005 40.1273	Jerry Wheeler MEU Forteiture	Trom Smith MEC Forfeiture	Specific	100.102,61	Not Budgeted -		-1494	Not Budgeted	
2005 40.12731	Tom Smith MEC Forteiture	Abram Allen MEC Forfeiture	Specific	11,434.00	Not Budgeted		-5066		
40.12732	Abram Allen INEU FULEILUIE	Cindo Howie Ent MEC Forfeiture	Specific	(62 00)	Not Budgeted -		-62		
40.12/33	CINDY HOWIE CLILINICOL FUTERIUM	Paul Harris MEC Forfeiture	Specific	(150.00)	Not Budgeted		-150	Not Budgeted	
	Paul Harris MEC Follende	Catherine Hertzog MEC Forfeit	Specific	(1 330.00)			-1330	Not Budgeted	
2005 40.12/35	Losonh Leech MFC Forfeiture	Joseph Leech MEC Forfeiture	Specific	(756.00)	Not Budgeted		-756	Not Budgeted	
	Mary Pruitt MEC Forfeiture	Mary Pruitt MEC Forfeiture	Specific	(688.00)	Not Budgeted		-686	Not Budgeted	
2005 40.12738	Eddie Obanion MEC Forfeiture	Eddie Obanion MEC Forfeiture	Specific	(341.00)	Not Budgeted	-	196-	Not Burdnated	
2005 40.12739	AD Gaddis MEC Forfeiture	AD Gaddis MEC Forteiture	Specific	(520.00)	Not Budgeted		070-		
2005 40.1274	Waltace Sapp MEC Forfeiture	Wallace Sapp MEC Forteiture	Specific	(768.00)	Not Budgeted	-	10980	Not Budgeted	
2005 40.12741	Janice Stinnett MEC Forfeiture	Janice Summer Manor MEC Fortait	Specific	(10,980.00)	Not Budgeted	-	-7815	Not Budgeted	
2005 40.12742	Barrington Manor MEC Forteit	Balitriguot maturi muco i anon South Eork MEC Forfieiture	Specific	(00.618,7)	Not Budgeted		402	Not Budgeted	1
2005 40.12743	South Fork MEC Forteiture	Data Sharil MFC Forfeiture	Specific	(4,UZ/.UU	Not Budgeted		-9718	3 Not Budgeted	1
2005 40.12744	Dale Shruli MEC Forteture	Eave Erickson MEC Forfeiture	Specific	(9,710,00)	Not Budgeted		-880	Not Budgeted	
	Faye Erickson MEC Forfeiture	Robert Vincent MEC Forfeiture	Specific	(1 512 00	Not Budgeted	1	-1512		
	RODER VILICER MICC FORTERIAL	Joseph House MEC Forfeiture	Specific	1 1675.00	(675 00) Not Budgeted	-	-675		-
	Dennis Kirley MEC Forfeiture	Dennis Kirley MEC Forfeiture	Snecific	(7,647.00)	Not Budgeted	ŧ	-764	7 Not Budgeted	-
40.127.40	Martin/Hart MEC Forfeiture	Martin/Hart MEC Forfeiture	Snecific	(189.00	Not Budgeted	1	-189	9 Not Budgeted	-
40.1275	Bill Dale MEC Forfeiture	Bill Dale MEC Forfeiture	Specific	(2,117.00)	Not Budgeted	-	-211/	/ Not Budgeted	; .
2005 40.12751	David Sutton MEC Forfeiture	David Sutton MEC Forteiture	Specific	(1,584.00) Not Budgeted	-	-100	n Not Budgeted	
	Rick Shanklin MEC Forfeiture		Specific	(1,250.00)	Not Budgeted	-	760	-760 Not Burdneted	
40.12753	Babara Cherry MEC Forfeiture	Babara Cherry WEC Forfeiture	Specific	(760.00)		1	-13780.2	9 Not Budgeted	
	Rodney Heaton MEC Forteiture	Т	Specific	13,180.25			-8328.65	Not Br	+
40.12755	Brooke Co MEC Forteiture	Meritlanbern MFC Forfeiture	Specific	(CC.075')	7 237 24	(1.067.56)	1,764.68	3 2,832.24	(1,067.56)
40.12756	Meunlenberg MEC Follellule	T	Specific	1,104.00	Not B	-	-187	Not Budge	-
2006 40.12/5/	1040. UBU. HIGHLAND GANDLIN CITY	T	Specific	(475.85		(475.85)	(47		(475.85)
2005 40.12/58		INSTALL 1400' 2" PE	Specific	4 476 33	4.481.07	(4.75)			(4.75)
2000 40 40.12/ 39	040.0BO.WOOU DAVE LET	900' - 2" PE for 13 lots	Specific	75 545 80	F	(38,726.60		- 1	(38,/26.60)
2000 40.12/0	1040. CBO 2006 FARM TAP PROECT	REPLACE FARM TAPS/PREFAB STATIONS	Ernotional	1 145 219.4	Not	1			-
2000 40.12/01	Rowling Green 06 Growth	Bowling Green 06 Growth Func	Functional	1.548,685.66	S Not Budgeted	-	1,548,685.66		-
AD 12763	Bowling Green 06 Nan Growth	Bowling Green 06 Non Growth	Functional	115,372.3	5 Not Budgeted	-	115,372.3	5 Not Budgeted	-
		Glasgow 06 Growth	Functional	547,232.4	5 Not Budgeted	-	547,232.45	5 Not Budgeted	
2006 40.12765	1	Glasgow 06 Non Growth	Functional	143,033.5	5 Not Budgeted	-	143,033.5	2 Not Budrated	
2006 40.12766		Hopkinsville U6 Growth	Functional	325,743.02		-	301 640 11	1 Not Budgeted	
2006 40.12767			Functional	301,649.11		-	363 928 9	2 Not Budgeted	-
2006 40.12768		Danville OB Mon Growth	Functional	303,928.9	z Not budgeted		79.903.3	5 Not Budgeted	-
2006 40.12769	T	Campbellsville 06 Growth	Functional	7 3, 303.0			380,452.36	6 Not Budgeted	1
위	Campbellsville up Growth	Cambellsville O6 Non Growth	Functional	587 030 1	1 Not Budgeted	-	687,939.11	1 Not Budgeted	-
2006 40.12//1	California De Growth	Shelbyville 06 Growth	Eurotional	319.758.58		-	319,758.5		
40.121	Chalkwille OB Non Growth	Shelbyville 06 Non Growth	Functional	150.395.8		-	150,395.6	33 Not Budgeted	
	Т	Madisonville 06 Growth	Functional	389,418.02		-	389,418.0	2 Not Budgeted	
2000 40.121.14	Madisonville 06 Non Growth	Madisonville 06 Non Growth	Functional	34,682.6		-	34,682.61	1 Not Budgeted	_
2006 40.12776		Princeton 06 Growth	Functional	216,614.33		-	210,014.	33 Not Budgeted	
2006 40.12777		Princeton 06 Non Growth	Functional	663,625.43	3 Not Budgeted	-	1 202 047 44	-	
2006 40 12778	B Owensboro 06 Growth	Owensboro 06 Growth	Functional	1,292,017.11		-	1,292,017.11	11 Not Budgeted	
2006 40.12779	Owensboro 06 Non Growth	Owensboro 06 Non Growth	Functional	463,132.42		-	463,132.42	+-	
2006 40.1278	Γ	Paducah 06 Growth	Functional	309,008.4	11 Not Budgeted	-	-000,505	-	
2006 40.12781		Paducan Ub Non Growin							

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Type of Filing: X	Original Updated Revised	· · · · · · · · · · · · · · · · · · ·				\$	Witness Responsible:	ole: R. Cook	
Workpaper Reference No(s).:	KPSCDR-2 Item 16b ATT	Functional and Specific Frogecies		Actual Cost in	Noci	Variance In	Total Actual	Totai P&N Cost	Variance in
			Functional or Specific Protect	Referenced Fiscal Year	Unginal row Estimate	Dollars	Project Cost	Estimate	Dollars
Fiscal		Project Title / Description	Eucline (1990)	6	Not Budgeted		117,303.19	Not Budgeted	
Year Project No.		Mavifield 06 Growth	Functional		Not Budgeted		205,303.01	(18,350.00)	11,468.45
2006 40.12782		Mayfield 06 Non Growth	<u> </u>	(6,881.55)	(18,350.00)		61.325.36	21,500.00	39,825.36
2006 40.12783	RK			61,325.36	21, 300.00 38 180 03	(10.676.43)	27,503.60	38,180.03	(10,676.43)
2006 AD 12785		VSTALL 800' OF 4" STEEL ON INDUSTION BORN BORN INTERNATIONAL		00.000'17	6.275.00		2,739.40	6,275.00	(3,535.00)
2000 40.12/03		Install 3,300' - 4" PE Into Cauld Industrian and the second second second second second second second second se	Specific	1 0R2 79	1.543.90		1,082.79	1,543.90	(401.11)
2006 40.12787		INSTALL 1800 OF 2 TE IN CALL BUILD	Specific	4,450.86	4,829.44	(378.58)	4,450.86	3 012 00	(781.34)
2006 40.12788			Specific	2,230.66	3,012.00		2,230.00	22.549.80	797.79
2006 40.12789	JEN .	netall 900' - 2" PE for four existing and one new residential customer	Snecific	23,347.59	22,549.80		20,041,0341,03	(39.540.00)	252,176.73
2006 40.1279		INSTALL 720' 4" PE, RETIRE 2" STL.	Specific	212,636.73	(39,540.00)	252,1/6./3	212,030.13 288,618,74	178,100.00	110,518.74
2006 40.12791	040.0BO. HWY 34% WILLENS WILL	NSTALL 540' OF 6" STEEL ON HWY 60-STATE RELUCATE	Specific	288,618.74	178,100.00	4/.01C/ULL	10.658.04	10,738.00	(19:96)
2006 40.12793	PASS	INSTALL 3160' OF 6" STEEL FOR ALCAN	Specific	10,658.04	10,738.00		3,264.73	10,548.00	(7,283.27)
2006 40.12/94	DAD RGR CI IMBERLAND RIDGE	2" PE EXT CUMBERLAND RIDGE - 5.G.	Specific	3,264./3		2.071.54	2,071.54	0.00	2,071.54
2006 40 12796	1	2" PE EXT STONEWALL III & IV-RUSS.	Specific	72 2,U/ 1.34	25.26			25,281.08	1,615,54
2000 40. 12. 00 2006 40 12797	T	Install 250' - 2' PE In duel to relocate occurs and the Jeff James	Specific	1 630 89			1,630.89	1,0/4.00	110 0801
2006 40 12798	T	Install 6,300 - 2" PE In Viller on Over over the seriest mobile home	Specific	(782.91)				0.00	084.31
2006 40.12799		INSTALL 6151 2" PE RETIRES 2" STEEL	Specific	4,400.76				3,410,40	(2,169,83)
2006 40.128		INSTALL 013 21 CTATTOR	Specific	12,137.17			12,131.11		1.673.84
2006 40.12801	040.0BO.EAST BYERS AVE.	2001 OF ALL TOL 2 YOU - PENNYRILE PKWY, - HOPK	Specific	2,761.59	1,087.75				(1,989.38)
2006 40.12803		Lestall 100' - 2" PE for one existing customer wanting to convert heat from elec	Snecific	287.62				662.00	3,097,10
2006 40.12804			Snecific	3,759.10		3,097.10			(3,532.54)
2006 40.12805	040.BGR.HOP.BURLEY UK. EAI	1550 FT. OF 2" PE - SAMWALTON DR RUSS	Specific	7,129.46	10,662.00		3 677 57		(93.48)
2006 40.12806		3288 FT. OF 2" PE - COTTAGE GROVE - FRK.	Specific	3,622.52					277.11
2006 40.12807		625 FT. OF 2" PE - GARET WAY - GLASGOW	Specific	4,707.11					(2,273.64)
2006 40.12808	3 040.BGR.GLS.GARET WAT	1210 FT. OF 2" PE HARLOW TRAIL - GLASGOW	Specific	3,543.36		_	112.002.23		Ĩ
2006 40.1281		835 FT.OF 2" PE- DAHLIA WAY - PARKEK MILLER - B.G.	Specific	112,002.23	00'0/0'00	1		36,800.00	
2006 40.12011	T	INSTALL 2" AND 4" PE IN LOCUSI UREEN IN SCOTORY A	Specific	31,8/1.20		0 2,943.76			2,943.76
2000 40. 12012 2006 40 12815	Т	INSTALL 2" PE IN THE RESERVENT BENOOD STORE AND A THE RESERVENT BENOOD STORE AND A THE RESERVENT BENOOD STORE AND A THE RESERVENT AND A THE RESERVENT AND A THE RE	Specific	10 545 24			10,645.21	11,2/9.00	\downarrow
2006 40.12818	Τ	604 FT. OF 2' PE - PINE TENNOOL - 5'C.	Specific	R 565.00	9,547.00		8		
2006 40.12819	T		Specific	28.65		0) 28.65			\perp
2006 40.1282		2039 F1. OF 2 - E - 12 - 12 - 12 - 12 - 12 - 12 - 1	Snecific	133,307.88	67,200.00		133,301.00	34 957 00	1.590.50
2006 40.1282		r repair for 2006 PC Year	Specific	36,547.50					
2006 40.12822	2 AKY.TCSVC.MEAS.UUISUUNCEN	OUTSOURCER METER TESTING AND REPAIR	Specific	9,747.55		4,220.31		5,521.24	
2006 40.12823	T	EFM Installation @ Copar	Specific	6,066.64					
2006 40.12824	A AKY. ICOVO. WEAD. LT W. COT	Installation of EFM @ WKU Steamplant	Specific	44,730.9		0 774.23	8,295.47	5,521.24	
2006 40.12823		Labor and material for Madisonville tornaud	Specific	14.CH2.H					+
2000 40. 12020	1	Installation of EFM (@ ABSN1	Specific	03 007 77	7 129.955.62	12	0) 93,997.22	-	(120,928,40)
2000 40.12828	T	RELOCATE 609 2 STELET ON STORMASES OWENSBORD	Specific	47 113.15				5 59,323.32	+-
2006 40.1283		PROJECT ON 2012 DECEMPTION ADDISONVILLE	Specific	77.247.40				2	_
2006 40.12831		INSTALL 1075' OF 4" STEEL FROM 3B TOWARDS HWY 34	Snecific	10,141.06		_			6 (13,092.64)
2006 40.12832		1860 FT.OF 2" PE - RIVERBEND III - B.G.	Specific	16,161.02		(13,092.04)			-
	33 040.BGR.RIVERBENU III - D.G.	the purchase of class 1 through 4 meters for Princeton tor F1 up	Specific	21,722.86	_		1 114.288.86		7
2006 40.12834	Т	costs to purchase class 1 through class 4 meters for FY 2006	Specific	114,288.86	10 30 300 10				
2005 40.12033		project to purchase class 1 through class 4 meters of the class of the class 1 meters	Specific	40.284.05	\perp			6 7,895.86	6 2,488.20
2000 401 2000 2000 401 40 42838	T	Install 885' 2" Pe	Specific	LOC NOT O			0		\perp
2006 40.12839	1		Specific	3 897 01			38) 3,897.01		+
2006 40.1284	Π	INSTALL 000 2 FE	Specific	19,105.61					
2006 40.12841	Ţ		Snecific	20,594.		2		27 500.00	00 774.62
2006 40.12842	12	Install 3.075' - 2" PE into phase II of Peppers' Mill Subdivision	Specific	28,274.62			20,214.02 20,214.02		Ľ
2006 40.129		Purchase of Conference Room Furmiture	Specific	29,800.	44	-			
8		Purchase Computers for Company Replacements	Specific	4,993.66	ľ	896.00 4,U37.00		2	8
2006 40.12903	Т	250' reveneue extension for new church	Specific	8,688.	20 1,812.00				
2006 40.12904		1910 FT. OF 2" PE - WILLIAMSBURG PAKK I - FRANKLIN							
2006 40.12907									

Atmos Energy Corporation (Kentucky Division) Case No. 2005-00464 Construction Projects Fiscal Years 2004 - 2006

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____Base Period _____Forecasted Period

Data:

Witness Responsible: R. Cook

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Atmos Energy Corporation (Kentucky Division) Case No. 2006-00464 Construction Projects Fiscal Years 2004 - 2006

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Base Period Forecasted Period Data:

Type of Filing: X_Original Updated Revised

Witness Responsible: R. Cook

Worknaner Reference No(s).:	a No(s).: KPSCDR-2 Item 16b ATT	Functional and Specific Projects							
	1		Functional or	Actual Cost in Referenced	Original P&N	Variance In	Total Actual	Total P&N Cost Estimate	Variance in Dollars
		Project Title / Description	Specific Project	Fiscal Year	Lestimate 1	1 755 03	6.649.03	4,894.00	1,755.03
Year Project No.		1730 ET DE A" PE CEMETERY RD. @ IDLE - B.G.	Specific	6,649.03	11 034.00	2 467 27	14,406.27	11,939.00	2,467.27
	040.BGR.CEMETERY RU. / IULE	130 F 1. 31 7 1 5 CEMETERY RD. @ FOUNTAIN TRACE - B.G.	Specific	14,400.21 11 715 50	12 300.00	(584.50)	11,715.50	12,300.00	(584.50)
2006 40.1291	040.BGR.CEWETERT ND @ 1 0001741	INSTALL 2300' OF 2" PE IN OSPREY COVE DUPLEXES	Snecific	10.647.21	20,079.00	(9,431.79)	10,647.21	20,079.00	(9,431./9)
2000 40.12311	AKY TCSVC MEAS ALCAN REGS	REGULATORS FOR INSTALLATION @ ALCAN	Snecific	18,680.80	19,689.00	(1,008.20)	18,680.80	19,689.00	(1,000.20)
2006 40.12912 2006 40 12913	AKY.TCSVS.MEAS.METERS	PURCHASE OF SPECIAL LARGE ROTARY METERS	Specific	24,019.02	18,528.00	5,491.02	24,019.02	18,528.00	94.68
2006 40.12914	AKY.TCSVS.MEAS.CALIBRATORS	PURCHASE OF CRYSTAL CALIBRATORS	Specific	7,057.68	6,963.00	94.68	00.100,1	5 105 42	13.87
2006 40.12915	040.0BO.LINCOLN RANGER 250	PURCHASE LINCOLN KANGER 230 WELVEN	Specific	5,119.29	5,105.42	13.8/	75 661 00	8 860 00	16.791.99
2006 40.12916	040.PTON.Varmint Trace Replace	Replace 50' - 3/4" 50' - 1 1/4", & 103 - 2 Steel pipe wint 219 - 2 - 2	Specific	25,651.99	8,860.00	1	20,05830	730.378.00	############
2006 40.12918	040.2739.LAW.WALMART	INSTALL 2200 OF 4 PE FOR WALMANN CONTRIPED AND 800 Road Crossing	Specific	30,258.32	230,3/8.00	(200,119.00)	B 680 96	230,378.00	
2006 40.12919	040.STO Hwy 800 Xing Repl.	Line No. 30-135-00 Nortonville/Fruithill 10" Road Crossing Replacement	Specific	8,680.95	230,570,000	-	4,557.01	4,494.60	62.41
2006 40.1292	040.STO Squire Rd Xing Repl.	LITTLE NU. 30-103-00 NOTOTIMUS COMMAN COMMAN COMMAND	Specific	10.755,54	00 424 00	661 468 74	896.645.24	245,177.00	651,468.24
2006 40.12921	040.PAD.Odorant Contoller	Odorant Injector Controlice	Specific	896,645.24	240,111,00 0136,10	(768.94)	1.267.16	2,036.10	(768.94)
2006 40.12922	St. Charles Engine Overhaul	Overilladi St. Sriences Somerces of the Drive from Lake Terry Drive. One new custo.	Specific	1,201.10	1 106 01	849.24	1,955.25	1,106.01	849.24
2006 40.12924	040.MAY.Terri-Aire Ext	Install 350' - 2" P along Shelby Ln for one new res. customer	Specific	1 018 20	1 280 80			1,280.80	_
2006 40.12925	U4U.WAT.Sheiby Lit Extension	INSTALL 133' 2' PE	Specific	31 403.17	28,135.29		31,403.17	28,135.29	3,26/.88
2000 40.12920	DAU MAD. FIN ORIVERS		Checific	197 904.42				248,936.00	_
2006 40.1292/	040.MAD.ARCH 31. ALF LACENLESS	I Line 90-159-00 Replacement in Swamp Due to Leakage	Specific	46.546.60				44,000.00	
2006 40.12928	040.510 LITE 9013300 SWEITE	PURCHASE 2" MUELLER EQUIPMENT	Snarific	27,567.73			27,567.73	24,000.00	4
2000 40 12923	DAD DAN CAM PIPE TRAILERS	2-PIPE TRAILERS FOR DANVILLE AND CAMPBELLSVILLE	Snecific	58,384.10	63,300.00			63,300.00	1020104
2006 40 1293	040 EQUIPMENT - DIVISION AREA	EQUIPMENT FOR KENTUCKY DIVISION	Specific	16,098.51				10,010,012	
2006 40 12932	040 MAY Fence Mayfield	Cost of wooden fence at new Mayfield office, was an add-on to the contract	Specific	99,106.22				53, 100.22 6 107 40	
2006 40.12934	040.OBO.LAND PURCHASE	PURCHASE 150X250 LOT 3415 NEW HARTFORD RU.	Specific	2,834.86	6,102.40	(3,267.54)	2,034.00	42 350 00	Ľ
2006 40.12949	040.PTON.Rectifier Dawson	Replace damaged rectifier in Dawson spining, NT recting the Street PARK	Specific	29,546.99				7 696.00	
2006 40.12951	040.2739.HI POINT IND PARK	INSTALL SZUU UF 4 FE AND SLIVISEOT STATES CONTRACTOR OF A STATES OF A STATES AND A DETIDIR - R G	Specific	5,355.87				3.900.00	1_
2006 40.12952	040.BGR.MARIA & DETOUR EXT	3240F1.0F2 FE-WEAVER BELIZON SOUTH ADDICAL CENTER IN LEBANON	Specific	1,150.94	3,900.00	21 614 20		17,228.61	21,614.20
2006 40.12953	040.2738.SPRINGVIEW INEU-LED	Daint and install carpet at Paducah warehouse	Specific	10.42.01				1,472.54	
2006 40.12954	-	I BILLERIA 1520'2" PE	Specific	13 3/8 61				23,750.00	9
2006 40.12958	040.MAD.BLAKE RICHET GRIVILLE	REFIRE 3 FARM TAPS ON THE SOUTH OF LEBANON-INSTALL 1600' 2" PE	Specific	6.431.57	6.700.00	1			
2006 40.12965	-	H-17012 1-1/2" AND 2" NO-BLO VALVE CHANGER	Snarific	53,693,59		5,467.59	53,693.59		
2000 40.1237 1	1040 RCP 1100 RI K PARK REPLC	1100 BLK. PARK ST. REPLC B.G.	Snecific	22,624.78	42,687.80		_	42,687.80	1
2000 40. 12303	DAD ORO W 12TH &CEDAR REPLANT.	INSTALL 855' 2" PE	Specific	80,738.58		(9,171.42)		22 22 22 22 25	(1, 177 27)
2000 40. 12307	040 BGR TRANSPARK 4" STL EXT	2700 FT.OF 4"STL TRANSPARK - BOWLING GREEN	Specific	21,360.12				23,001.49	+
2006 40 12987		Install 540' - 2" PE along E Main St Retire 450' - 4" & /8" - 2" balle	Specific	44,140.92					
2006 40.12988	T	Owensboro: Purchase of 15 AEU Units for Cost Certier 2010	Specific	7,742.21			1,142.21		3.064.10
2006 40.13009			Specific	8,805.35					
2006 40.1301	Aky.Tcsv.EFM.Kenway	Install EFM @ Kerway Pavers, LLO	Specific	67,300.92		(1,453.00)			
2006 40.13012	040.IT Laptop Replacements	Replace Laptop Vorriputets	Specific	3,452.75					1
2006 40.13013		13/0 F1. OF 2 FE - 0100000000	Specific	4,524.15					
2006 40.13014	040.BGR.BAILEY'S FARM II-A		Specific	167 458 67	73.675.49	9 88,783.13		73,675.49	- 1
2006 40.13015		Install 1, 150 ' of 8" T'Line	Specific	76.036.73					4
2006 40.13010		Install 2,865' - 2" PE	Specific	7,533.13					
2006 40.1301/	-	INSTALL1,260' 2" PE	Snarific	16.317.22		÷			
2006 40.13018	_	D.O.T project to relocate 2" pe and two services along north friendship rd	Snecific	7,666.81	518.55	2			5 /,148.20
2006 40 1302	-	City adding turn lane at Sanders Blvd/ Install 6/U - Z PE	Specific	15,988.25			5) 15,988.25 76,567,20		44
2006 40 13021	T	REPLACE RECTIFIER POLES AI BURGIN, JL, STANFORD	Specific	73,893.2	9 28,490.00			20,430.00	
2000 20 13022	Т	18, DIINas, Teal door, VIIIce Miniary,	Specific	35,816.23		0 11,415.23	30,010,23	+	_
2006 40 13023	Г	Regulators for Jim Smith Contracting	Specific	4,319.11		_		_	ſ
2006 40.13024		INSTALL /50' 2' PE	Specific	48,480.79	37,255.00	11,225./9		1,605.00	0 1,580.61
2006 40.13026	040.2739.BRIDLEWOOD SE	INSTALL 2600 OF 2 FE AND ALCO STATION	Specific	3,185.61					-
2006 40.13027		7: DE EXTENSION - THE SUMMIT PHASE I - B.G.	Specific	19.168,91					
2006 40.13028		2565 FT. OF 2" PE - HUNTERS CROSSING	Specific	3 947.0	6 4.721.00			5 4,721.00	0 (773.94)
2006 40.13029	040.BGK. HUNIERS CROSSING 12-0		Specific	5 274.58		5 1,295.13			
2006 40.1303		Install 765' - 2" PE along Ballard Cr in infort	ohoodo						
ZUUD14U.12									

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Updated	vised				-	Witness Responsible:	ble: R. Cook	
Workpaper Reference No(s).: KPSCDR-2 Item 16b ATT	Functional and Specific Projects							
Fiscal		Functional or Specific Project	Actual Cost in Referenced Fiscal Year	Original P&N Estimate	Variance In Dollars	Total Actual Project Cost		Variance in Dollars
0	Project Little / Description	Specific	963.82	7,500.00	(6,536.18)	963.82	7,500.00	(6,536.18)
40.13032	ADD FT OF 4" PF - FAGI F BYPASS - AMBUL	Specific	29.27	2,318.00	(2,288.73)	29.27	2,318.00	(2,288.13)
2006 40.13033 040.BGK.HUP.AMBOLATOKI CITA		Specific	1,979.00	5,667.UU	(3,688.00)	1,9/ 3.00	816.20	221.02
	Purchase D R Trimmer/mower	Specific	1,037.22	910.20	15 213 72	15.213.72	1	15,213.72
40.13036	Costs to cover new mir set for Jim Smith new asphalt plant	Specific	10 040 81	14 625 00	(3.684.19)	10,940.81	14,625.00	(3,684.19)
T	Fisher ROC 312 and EFM/RTU equipment	specific	10,340.01	22 800.00	(5.220.97)	17,579.03	22,800.00	(5,220.97)
40.13038	INSTALL 1700' OF 2" AND 4" PE FOR 10 SERVICES = 40 MTK SETS	Snecific	3.187.27	3,458.20	(270.93)	3,187.27	3,458.20	(270.93)
2006 40.13039 040.2618.OWBEXIT	REPAIR EXIT LIGHTS AT THE OWENSBORD OFFICE	Snecific	2.578.77	29,817.96	2	2,578.77	29,817.96	(27,239.19)
2006 40.1304 040.0BO.E.24TH. & BOLIVAR	INSTALL 729' 2" PE RELIKE 3" & 4" 51L.	Specific	27,031.53	70,647.63		27,031.53	70,647.63	(43,616.10)
40.13041	Move Finley Reg. Sta. due to HWY Project	Specific	(29,723.42)	(150.00)		(29,723.42)	(150.00)	(29,573.42)
	INSTALL 2 PE UN FIGUE ALLET AND ALLET AND ALL THE COMMENSES	Specific	9,570,85		9,570.85	9,570.85		0,0/0,6 111 776 841
2006 40.13044 040.BGK.141H S1. RELUCATION	In alley hehind Washington Street install 310'	Specific	2,079.65	13,355.49	(11,275.84)	2,0/9.67	13,300.49	(11,2/3.04)
Т	INSTALLATION OF EFM @ FP INTERNATIO	Specific	3,494.67	5,522.24	1/12/17/	0.454.0 B 242.00	5,622.24	2 620.85
40 13047	INSTALLATION OF EFM @ CLOVER CREEK BRICK CO.	Specific	8,243.U9 E 406 E7	13 0UU UU	(8 703 38)		13,900.00	(8,793.38)
1	INSTALL 1100' OF 2" PE FOR 34 CONDOS DOGWOOD VILLAS	Specific	10 705 11	14 100 00	(1 374 89)		14,100.00	(1,374.89)
T	INSTALL 1500' OF 2" PE AND 3 LS SERVICES ON KNOB STREET AND BYERS CI	Specific	3 812 92	5 622 32	(1,809,40)		5,622.32	(1,809.40)
2006 40.13056 040.PAD.Odorizer Awning	Awnings will cover odorizers to keep direct sunshine off odorizers	Specific	5 188.26	5.500.00	(311.74)	5,188.26	5,500.00	(311.74)
40.13057	Purchase of Ultrasonic Thickness Gauges	Snecific	1.322.42	1,656.01	(333.59)		1,656.01	(333.59)
		Specific	4,513.79	9,978.52	(£	4,513.79	9,978.52	(5,464.73)
40.13059	Install 1/0' 2" PE retire 4" 5tt LP	Specific	618.32	1,202.28			1,202.28	(583.96)
	Meadows Subd Rev Ext II ZUU TUL 2118W LES 1015 JULII JULIII.	Specific	9,340.26	13,117.28	0	9,340.26	13,117.28	(3,777.02)
40.13062	Pronchaven sicher in Association (16 Pronchaven sicher London and 18 005) for 26 new residential lots	Specific	11,695.61	12,480.00	-	11,695.61	12,480.00	(84.39) (87 858 16)
2006 40.13063 040.PAD.Brooknaven II	AIN REPLACE RARE STEEL MAIN ON DUFFY, JACKSON AND WICKLIFFE STREETS	Specific	63,741.84	151,600.00	(87,858.16)	63,/41.64	101,000,101	(01,000,10)
2006 40.13064 040.2/36.D0FF-JACK3-WICK MININ 2006 40.13065 040 2738 DI IF-JACK-WICK SFRVICE		Specific	88,721.96	110,185.00	(21,463.04)		6 065 00	(1.164.37)
40 13066		Specific	4,900.63	0,003.00 6 276 00	(1375.37)		6,276.00	(1,375.37)
40.13067		Specific	4,900.63	6 276.00			6,276.00	(1,375.37)
		Snecific	3.177.66	43,000.00		3,177.66	43,000.00	(39,822.34)
40.13083		Specific	26,048.40	29,766.00			29,766.00	(3,717.60)
ľ	Installation of additional K-U-VV ItialKets	Specific	9,554.59	12,592.23	E)	9,554.59	12,592.23	(3,037.64)
40.13085		Specific	53.92	522.35			92.229	(408.43)
2006 40.13087 040.MAD.PRITCHETT AVE.	Define 114 FEASO Define FT OF 2" PF - NORTHRIDGE IV-A - B.G.	Specific	9,164.85	8,734.11	_		8,/34.11	14 830 331
	4095 FT OF 2" PE - NORTHRIDGEIV-B B.G.	Specific	14,198.17	16,037.50		14,130.17	2 504 Rd	(7 449 56)
1	Γ	Specific	97.66	40.400,2	(2,443.30)	101	13.496.31	(2.908.22)
		Specific	140.65	15,000,00	Ľ		15,000.00	(14,859.35)
2006 40.13093 040.2715.TBS REGULATOR REPLACE		Specific	87.137.58	248,949.00	Ľ	ω	248,949.00	##########
40.13094	Replace 10" with 12" in HUA at Gorout Fairk	Specific	5,742.27	8,106.90	(2,364.63)		8,106.90	(2,364.63)
T	Install 1,303 - 2 TE IUI 10 CUITITISI CUE 1003. 1 INSTALL 45001 OF 7" DE AND RETIRE 1300	Specific	(9,414.01)	9,459.00	_		9,459.00	(10, 5/ 5/ 10)
2006 40.13098 040.2/39.LAWKENCEBURG AING	A AING INSTALL 1000 OF 2.1 LAND ALTIME 1000 OF 2.1 LAN	Specific	(31,153.20)	27,357.00	-	2	00,000,0	102.010,000
Т		Specific	5,457.10	6,900.00			3,300.00	144 043 661
2006 40.13102 040.86K.EAGLESTONE VILLAS	z 1001 1.01 2.1 PE	Specific	10,124.99	25,068.65	_			(66.371.70)
2000 40. 13103 040.000.1 100050000 11000 1	622 FT. ODF 2" PE - E. 13TH ST B.G.	Specific	8,556.30	14,928.00	1 (00, 37 1.7U	15 136 65		1.264.77
		Specific	15,130.05 A1 878 AA	32 796 04				9,082.40
40,13108	6" HP RELOC HYW 31-W - B.G. PIPE ONLY	Specific	8 115 74	11 802 96			11,802.96	(3,687.22)
T		Specific	3 921 35	00.0)			(00.0)	3,921.35
40.13118		Specific	25,936.05	62,391.00			62,391.00	
40.13119		Specific	19,956.96	30,749.84			30,749.84	4
	2520 F1-2' & 1959' - 4' - INSLELLEN FARMO - P.O.	Specific	8,146.25	9,366.83		9,146.25	9,366.83	(1,220.58)
2006 40.13122 040.BGR.HOPK.0FFICE FUK.								

Atmos Energy Corporation (Kentucky Division) Case No. 2006-00464 Construction Projects Fiscal Years 2004 - 2006

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Base Period Forecasted Period Data:

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Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 17 Witness: Robert R. Cook Jr.

Data Request:

Refer to the Cook Testimony, page 8, line 14. Is highway relocation a non-reimbursement item? Explain.

Response:

The project mentioned in the Cook Testimony, page 8, line 14, relocated an existing gas line within the public right-of-way, and therefore was non-reimbursable.

Atmos gas facilities (pipelines, mains and services) are installed either in easements granted by private property owners or within public street or state highway rights-of-way. All gas facilities periodically cross streets and highways, even if they generally are installed on private easements.

The cost of relocating existing gas facilities located on private easements is reimbursable to Atmos Energy. When Atmos Energy gas facilities are located within the public road right-of-way, relocation costs for highway projects are not reimbursable.

Municipal franchise agreements allow Atmos Energy to install its gas facilities within a city public right-of-way. State highway permits are required to install gas facilities within a state right-of-way. These facilities are then subject to relocation at Atmos' expense at any future date if the public entity performs work that will conflict with the gas lines.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 18 Witness: Robert R. Cook Jr.

Data Request:

Refer to the Cook Testimony, page 9. Concerning the chart on this page,

- a. Provide a breakdown of the actual dollars and budgeted dollars for the 2006 expenditure.
- b. Are the costs of removal for the old pipes included in the costs of the projects? Explain in detail.

Response:

- A. See attached DR2-18a for breakdown of the 2006 budget compared to actuals.
- B. Yes, the cost of removal is included in replacement projects as appropriate. In general, it is cost prohibitive to remove retired assets from the ground. The industry practice is to purge, weld end-caps onto the old pipe and retire in place. This was the method used in the bare steel pipe replacement project referenced on page 9, line 5 of the testimony of Mr. Rad Cook.

al Budget v Actuals	
KY 2006	DR2-18a

R. Cook KPSC DR2-18a

KPSC DR2-18a				¢	4	2	9	7	8
		-	1	Doole	- UR	Eeh-O6	Mar-06	Apr-06	May-06
Corporate Budget Category	Data		CN-NON		- 1.1	11 607 88	48 203 98	97 401 91	18.189.17
Equipment	CY Actual	16,037.15	2,919.37	96.788	67.120,21	00.100,11	02-224-04	61 615 41	
	CY Budget	171,927.53		34,330.05	(00 207 07)	(11 607 88)	(4R 203 GR)	(35 786 50)	(18.189.17)
	CY Act V Bud B/(W)	155,890.38	(2,919.37)	33,332.00	(c7.17C,21)	100.150,111	ERA 604 00	353 722 43	597 526 79
Growth	CY Actual	422,047.54	441,879.23	592,050.16	491,8/3.03	21.012,901	100,000,000	AD7 511 14	398.073.27
	CY Budget	696,374.90	375,357.16	363,890.16	394,301.39 /07 402 64/	200,074 11	1165 071 000	143 788 71	(199.453.52)
	CY Act V Bud B/(W)	274,327.36	(70.225,07)	(100.001,822)	(31,433.04)	11.1.10,002	(mail 10'mail		
Improvements	CY Actual					-			
	CY Budget								
	CY Act V Bud B/(W)			1		107 701 01	1 043 93	58 930 07	2,697,63
Information Technology	CY Actual				10 011 00	01-101 21	CC-C+O'+	28,753,85	
	CY Budget				28,753.85	102 207 CF	(4 0.42 02)	130 176 221	(2 697 63)
	CY Act V Bud B/(W)	F	•	1	C8.CC/,82	(12,151.10)	11,040,040	77 073 76	(720 675 R6)
Overhead	CY Actual	114,278.08	199,299.84	100,082.14	333,644.88	224,047.43	(15.260,766)	ZIZ,UI3.10	100.010,022)
	CY Budget	(114 278 08)	(199 299 84)	(100.082.14)	(333,644.88)	(224,047.43)	ŝ	(272,073.76)	220,675.86
	CT Act V Duu D/(VV)	68 404 04	23.928.62	14.451.17	12,665.26	(708.27)		7,606.17	83,868.17
Public Improvements	CT Actual	07 125 UR	10.010.01						
		28,721,04	(23 928 62)	(14.451.17)	(12,665.26)	708.27	8,026.31	(7,606.17)	(83,868.17)
	CT Act V Bud B/(VV)	10.17107	1	7.825.72	21,032.93	753.02	259,699.33	(108,802.12)	21,169.85
Suucules								(2,000.00)	
	CY buuget	(4,000.00)	ı	(7,825.72)	(21,032.93)	(753.02)		103,802.12	(21,169.85)
	CV Actual	44 196 26	187 997 67	26.445.41	83,444.91	124,464.39	432,888.05	44,866.52	31,615.87
System Improvements		65 245 37			15,013.62				
	CY Act V Bud B/W)	21.049.11	(187,997.67)	(26,445.41)				(44,866.52)	(31,615.87)
Svetem Integrity	ICY Actual	525,360.61	401,902.65	460,532.64	397,200.50	564,821.47	933,757,44	528,418.51	740,964,00
	CY Budget	1.425,582.18	711,723.31	667,541.16	599,313.18	609,905.52	616,847.78	/14,329.32	/19,801.US
	CY Act V Bud B/(W)	900,221.57	309,820.66	207,008.52	202,112.68	45,084.05	(316,909.66)	185,910.81	(40,014.09)
Vehicles	CY Actual								
	CY Budget	×11.2		1			1		
	1 AN A DUU DI AV	4 100 273 68	1 257 927 38	1 202 384 80	1.352.385.34	1,076,588.74	1,719,425.43	1,254,217.25	1,294,867.40
PA Subtotal CY Actual		7 457 755 06	1 087 080 47	1 065 761 38	1 037 462 64	949,354.75		1,297,209.72	1,117,934.36
PA Subtotal CY Budget		4 764 021 38	(170 846 91)	(136 623 42)		(127,233.99)	(658,097.33)	42,992.47	(176,933.04)
PA Subtotal CY Act V Bud B/(W)	3/(W)	1,201,331.30		120,0001				(1.249.80)	173.073.04
Outside PA Subtotal CY Actual (Accruals & Forfeitures)	ual (Accruals & Forfeitures)	(39,531.40)	46,066.54	44,UZ4.ZD	214,413.00	140,041			
Outside PA Subtotal CY Budget (Accruals & Forfeitures)	dget (Accruals & Forfeitures)					4 AE 024 02	351 476 RU	1 249 80	(173.073.04)
Outside PA Subtotal CY Act V Bud B/(W)	t V Bud B/(W)	39,531.40	(46,066.54)				۲ 	1 757 067 45	1 A67 940 44
Kentucky CY Actual		1,150,792.28		1,246,409.06			1,307,330.03	CT 100'707'1	1 117 034 36
Kentucky CY Budget		2,452,255.06	-	-	-	50		-	/250 006 08/
Kentricky CY Act V Bud B/(W)	W	1,301,462.78	(216,913.45)	(180,647.68)	(529,335.78)	18,687.93	(306,670.53)	44,242.21	(on onn 'nec)
		-							

KY 2006 、 , .tal Budget v Actuals DR2-18a

R. Cook KPSC DR2-18a

		6	10	11	12	Grand Total
Comorate Buidnet Catedory	Data	Jun-06	Jul-06	Aug-06	Sep-06	
	CY Actual	23,914.80	11,352.87	10,219.69	6,173.26	259,628.87
	CY Budget	(73 914 80)	(11.352.87)	(10.219.69)	(6.173.26)	8,244.13
#		438 456 20	337 155 93	343,600.40	814.777.03	5,557,160.46
Growin	C1 Actual	339,578,68	395,629,13	352,910.96	384,407.90	4,957,187.52
	CY Act V Bud B/(W)	(98,877.52)	58,473.20	9,310.56	(430,369.13)	(599,972.94)
Improvements	CY Actual					
	CY Budget CY Act V Bud B/(W)			8	1	1
Information Technology	CY Actual	5,673.22	9,644.11	8,195.02	(1,220.74)	97,100.94
3	CY Budget	28,753.85	(0, 044, 44)	28,753.85	N7 000 1	115,015.40
	CY Act V Bud B/(W)	23,080.63	(9,644.11)	co.occ.uz	+1.022,1	01.110,11
Overhead	CY Actual	(51,389.36)	168,909.67	23,493.15	(192,402.82)	413,668.60
	CY Budget CY Act V Bud B/(W)	51,389.36	(168,909.67)	(23,493.15)	192,402.82	(413,668.60)
Dublic Improvements	CY Actual	37,464.74	73,209.88	67,322.43	65,971.58	471,014.80
	CY Budget	-				121,982.40
	CY Act V Bud B/(W)	(37,464.74)	(73,209.88)	(67,322.43)	(65,971.58)	(349,032.40)
Structures	CY Actual	18,081.15	23,040.41	17,315.47	20,602.78	280,718.54
	CY Budget					
	CY Act V Bud B/(W)	(18,081.15)	(23,040.41)	(17,315.47)	(20,602.78)	
System Improvements	CY Actual	(9,881.11)	151,452.05	20,507.85	1,003,050.43	2,141,048.30
-	CY Budget					80,258.99
	CY Act V Bud B/(W)	9,881.11	(151,452.05)	(20,507.85)	(1,003,050.43)	(1 C RON' / 0A-3 I)
System Integrity	CY Actual	670,050.66	719,951.54	823,937.90	1,024,948.96	7,811,358.66
	CY Budget	690,109.50	645,438.04	653,859.11	597,418.00	œ
	CY Act V Bud B/(W)	20,058.84	(74,513.50)	(170,078.79)	(427,530.96)	ŵ
Vehicles	CY Actual			(1,525.00)		(1,525.00)
	CY Budget			1,525.00	1	1,525.00
PA Subtratal CV Actual		1,132,370.30	1,494,716.46	1,313,066.91	2,741,900.48	17,030,174.17
DA Subtotal CV Burdnet		1.058.442.03	1,041,067.17	1,035,523.92	981,825.90	14,185,245.50
PA Subtotal CV Act V Build B/VM	VVVV	(73.928.27)	(453,649.29)	(277,542.99)	(1,760,074.58)	(2
Outside PA Subtotal CY Actual (Accruals & Forfeitures)	al (Accruals & Forfeitures)	122.005.91	(119,708.12)	85,497.58	(412,409.08)	(385,166.71)
Outside PA Subtotal CY Budget (Accruals & Forfeitures)	doet (Accruals & Forfeitures)					
Outside PA Subtotal CY Act V Bud B/(W)	V Bud B/(W)	(122,005.91)	119,708.12	(85,497.58)		_
Kentricky CY Actual		1,254,376.21	1,375,008.34	1,398,564.49	2,329,491.40	
Kentricky CY Budget		1,058,442.03	1,041,067.17	1,035,523.92		
Kentucky CY Act V Bud B/(W)	()	(195,934.18)	(333,941.17)	(363,040.57)	(1,347,665.50)	(2,459,761.96)
•	•					

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 19 Witness: Rad Cook

Data Request:

Refer to the Cook Testimony, page 10, line 11. Provide a breakdown of the costs budgeted for fiscal year 2007 of \$17.3 million.

Response:

Please see the attached spreadsheet labeled KPSC DR2-19 ATT.

Atmos Energy Kentucky F Y07 Direct Capital Budget KPSC DR2-19 Division Budget C 009DIV KY Division Equipme

Equipment	Stormer Fourtment	4.327	7 318	10.353		13,134	3,863	16,997 0	16,997	3,863	0 0	0 0	3,863	¢.4
10	Contract Party of the second sec		21 May 4			,	•	¢	<	-	-	-	-	.
	Duches Elements	0	10.974	0	34,688	0	0	>	Þ	2	>	>	,	
	ructures and mp or country of approximate OverseborryPatienment/Mise. Fournment Purchase	38,850	0	0	1	0	0	0	0	0	0	0	0	eć e
	Princeton miseellancous comment	20,326	0	0	0	0	0	0	0	0	0	0 0		ą.
	Bowline Green Equipment	16,997	0	0	,	0	0	0	0	0	0	0		2 2
	Madisonville/Bautoment/Misc. Equipment	0	0	4,172	3,562	8,499	0	0	0	0	0 (.		2 S
	Madisonville/Equipment/Welder Purchase.	0	0	0	13,907	0								1 =
	Other equipment	11,832			,					0	0	0	0	6
	Trencher Purchase	6,080 5 339			0	0	0 0	. 0	0	0	0	0	0	ŝ,
	Hydraulic Squeeze Tool. Connectra LSL-2A	4,172	0	0	0	0	0	0	0	0	0	0	0	4
unpment Total		108,522	13,292	14,525	52,157	21,633	3,863	16,997	16,991	3,803	1 656	0 21 656	189 15	619
Growth	Owensboro- Growth- New Services	51,656	51,656	51,656	51,656	959,15	000,10	000,10	220.10	48 465	48 465	48.465	48.471	581
	Bowling Green New Services	48,465	48,465	48,405	48,465	C04'94	C01-01-	C11 CV	C11.7A	47 117	47,112	47.112	47,100	565
	Bowling Green New Meter Loops	211,14	211,14	711,14	24 767	34 906	34.906	34.906	34,906	34,906	34,906	34,906	34,909	415
	Owensboro- Growth- New Meter Loops	101,45	101,00	29 679	29.679	29.679	29,679	29,679	29,679	29,679	29,679	29,679	29,141	355
	I autour to the second store	22.530	22.530	22,530	22,530	22,530	22,530	32,428	22,530	22,530	32,428	22,530	22,524	295
	Meter loon functional	22,787	19,677	19,677	22,787	19,677	19,677	22,787	19,677	19,677	22,787	179,61	700'61	¥7
	Paducah/ Growth/Meter Loops	17,880	17,880	17,880	17,880	17,880	17,880	17,880	17,880	17,880	11,880	17,880	11,280	4CC/417
	New Services in Shelbyville & Lawrenceburg	21,745	13,401	13,401	21,745	13,401	10/11	24/,12	13,401	105,61	CF//17	104-201	027.01	561
	Madisonville/Growth/Meter Loops	10,470	10,470	10,470	10,470	10,470	0.19/0	0/6/01		001.0	001.0	6 100	F07 8	30
	Bowling Green Blanket Growth Mains	8,199	8,199	8,199	8,199	8,199	8,199	8,199	19211	0,1,0	13 587	U U	13 587	56
	Meter Repair/ Capital Refurbish meter	24,448	16,298	0	0	284,61			700,01	7119	7000	6 174	6339	1
	2638 MAYFFELD/GROWTH//SERVICES	6,324	6,324	6,324	6,324	0,324	675'O	17C'D	1750	1000 9	6.280	6.780	6 763	r-
	Madisonville/Growth/Servaces	6,280	6,280	6,280	6,280	6,280	0,280	0,280	0,450	0.02.0	107'0	1 0.69	1077	1
	Service Functional	8,792	4,968	4,968	8,792	4,968	4,968	8,192	4,908	4,700	141.0	000 6		
	Joint Trench Work in Shelbyville	14,525	2,809	0	14,525	2,809	0	14,525	2,809	0	C7C'61	2,807	5 510	63
	Honkinsville-Growth-New Services Functional	5,540	5,540	5,540	5,540	5,540	5,540	5,540		UPC,C	05C C	0407.3	214.5	5 4
	Glasgow New Growth Services	5,408	5,408	5,408	5,408	5,408	5,408	5,408	5,408	806,0	504,C	004.0	228.8	5 10
	Madisonville/Growth/Main	4,489	4,489	4,489	4,489	4,489	4,489	4,489	4,489	4,489	4,489	4,489	6,4/5	n i
	Shallwarita Growth 2007	0		0	9,271	0	0	19,315	0	0	23,692	0	0	<u>, v</u>
		010	4 070	4 079	4 079	4.079	4.079	4,079	4,079	4,079	4,079	4,079	4,079	4
	Bowling Green New Meters	4,079	4,079	4,0,4	C10,#	100 0	202.5	202 5	1 301	FUF F	1 103	3,303	3,303	ŝ
	Hopkinsville- Growth- New Meter Loops	3,303	3,303	3,303	3,303	3,303	3,305	5,505	200,0				2004	. "
	Owenshore-Growth-New Meter Purchases	3,024	3,024	3,024	3,024	3,024	3,024	3,024	5,024	5,U24	5,024	+20's	120,0	, ,
	Contribution of Director Provide Manage	2 015	2 0 1 5	2195	2.935	2.935	2,935	2,935	2,935	2,935	2,935	2,935	2,935	m
	Owensporte-Linowul- Islumket Mattis	CCC47		CLV C	7 477	2.472	2.472	2.472	2,472	2,472	2,472	2,472	2,475	7
	Princeton-Growth-Services	71677	71477	7147	711.77	1.0	-			c	0	0	0	7
	Madisonville/Growth/Midtown Commons relocati	29,155	0	0										6
	I awrencebure Growth 2007	172,9	0	0	0	0	•	7/1/1			2			4 6
	Seraces Finetional Manue	6.351	0	0	6,351	0	0	6,350	0	0	065,0	D		4 1
	Del vices i mouvient remaine	4 518	1 596	1.596	1.596	1.596	4,518	1,596	1,596	1,596	i,596	1,596	1,593	ř.
					c		0	0	0	0	0	0	0	1
	Hopkinsville- Project 2- Commerce Park Industria	714,62	•					295 5	c	c	5.563	0	0	11
	New Meters Shelbyville 2007	5,563	0		50C*C	5	0.00				0		C	2
	Locust Creek-Shelbyville	0	0	0			0/0'17			, c			c	2
	Large Regulators	0	0	0	20,373	0	•							
	Notting Hills-Shelbyville	0	18,161	0		2					912 4		0	
	Madisonville/Growth/Meter Purchases	4,376	0	D	9/17	-		110.1	226.	3361	556 1	1 255	1 740	_
	2638 Mayfield/GROWTI1/METER LOOPS	1,255	1,255	1,255	((7)	((7)	CC7'1	CC7.1	(14) 191	101 1	101 1	101 1	1 204	
	Paducah/Growth/Mains/Meters	161.1	1,191	161,1	161,1	161,1	1611	1,191	121.1	1,171	1,155	1 155	1 155	
	Ho- Growth- New Meter Purchases	1,155	1,155	1,155	1,155	1,155	1,155	1,155	(c1,1	cc1,1	cc1,1	cc1'1		
	Glassow Blanket Growth Mains	1.042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	760'1	1,042	
	CITATION OF A COMPANY AND A CO	010	010	639	939	686	939	626	656	939	939	939	942	_
	Cliningtow INCW CITUMUL INICIAL LONGE	50	258	558	853	853	853	853	853	853	853	853	853	
	11 TIMUT VI ANN ALL MONOKO MILANA EVITALIA	102 1	C DUY	009	600	600	600	1.597	600	600	600	1,597	597	
	Princeton Blanket Matins	1651	2000	200	627	129	627	627	627	627	627	627	627	
	- 1	170	170	1	140	-	Ē	c	0	0	0	0	0	
	Madisonville/Growth/Wendall Ford Training Cen	(81,)	0	202	503	203	503	503	593	593	593	593	593	
	sville- Growth-Blanket Main I	64C	102.3			0		0	0	0	0	0	0	
	Meters	-	16/*0		1 474		U	1 474	0	0	1,474	0	0	
	Growth Meters	1,4/4						1 474	c	0	1.474	0	0	
	Meters Functional	14/4			1			1 701	c	0	0	0	0	
	Princeton New Growth Meter Purchases	16/*1				• •	, c	0	0	0	0	0	0	
	Unassigned labor		•							0	0	0	0	
	assigned labor	, .	0	n (j	0	1 6670	1 6670	1 578	0.667)	0.6670	1.578	(1.667)	(1.663)	0
	Main functional	1,578	(1,667)	(1.007)	8/21	(100,1)	205 775	91011	477 774	360.983	460.440	364.789	373,999	4,88
Growth Total		512,368	404,504	300,844	171	0	U	0	27164	C	0	0	0	
T	KY IT Replacements	20,589	0		101,12	>				•				
	Annual PC Refresh			14,250	016,24									4
	MDT Replacements			103,229	200,202	•	-	-	27 164	0	0	0	0	Ń
T Total		20,589	-	755'/11	178'616	-			0		0	c	c	
Mi	Replacement of Hopkinsville 10	101,865	135,820	C08,101							0		0	6
'IM Total		101,865	135,820	101,865	0				0 27 2 20	DOJ FL			c	
Public Improvement	Paducal/ Public Works/ 16th & Ky. Avc	0	0	0	.			19613		0	. c		0	
	Owensboro/Pub.Imp/SP2.Southtown Blvd. Reloc	0	0		0		5 0	5				0	0	
	Bowling Green/ Lovers Ln. Relocation	26,277	081'67	095,86	(1 52'76)				000000	150 000	150.000	150.000	(50 000)	-
	Bowling Green/31 W Relocation	108,165	108,165	77,261		0		1 005	1000	(000'pr)	200 500	500 P	4 995	
	2638 MAYFIELD/PUBIMP/RELOCATE	4,995	4,995	4,998	4,995	(30,005)	4,995	6,49	суу.р °	C44,4	C66,P	с <i>сс</i> ' +	- C	
	I chanon Rv.Pass Relocation	0	0	0	0	0	0	0	0	Ð	7,411			
	Louison Dr. B. Diene A. Commune Dark 8" Delo		(20.000)	0	0	0	0	0	0	0	0	0	0	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A STATE AND A STATEMENT OF A MAIL - I T - ANIA STITUIALT	120 477	122 340	180.819	(87.842)	(30,005)	4,995	72,359	19,575	(20,425)	(42,528)	(45,005)	(45,005)	
Public Improvement Lotal		61012	14 857	0	0	0	0	0	0	0	0	0	0	
Structure	Storage Structures Improvements	746,10	0				0	12.362	0	0	0	0	0	
	Owensboro/Structures/Repairs to Service Center a		101 7	, c	, c	, c	• 0	0	0	0	0	0	0	
	Hopkinsville-Concrete Shed Floor	2	6,181	-	2 0	2 1	2	,	,					
	Improvements at Shelbyville Warehouse	,	0	-		•	c	c	c	¢	0	2	10	
						0	0	0	0	0	00	00		

Atmos Energy Kentucky FY07 Direct Capital Budget KPSC DR2-19 Division

FY07 Toial 65.372 65.372 65.372 65.372 65.372 65.372 65.372 17.825 17.8555 17.85555 17.85555 17.85555 17.855555 17.855555 17.8555555555555555555555555555555555555	2,008,758 2,008,758 2,008,758 552,074 552,074 552,074 552,074 552,074 552,075 391,2945 391,2945 392,945 392,945 394,4390 111,478 111,478 111,478 111,478 111,478 111,478 111,478 111,478 111,478 111,478 111,478 111,478 111,478 111,478 111,478 224,566 111,478 224,566 111,478 224,566 111,478 224,566 111,478 224,566 221,799 224,797 224,566 111,478 224,566 221,799 224,797 224,566 111,478 224,566 221,799 224,797 224,566 111,478 224,566 221,799 224,797 224,566 211,799 224,797 222,566 211,799 224,797 224,566 211,796 221,799 224,797 222,566 211,799 222,766 211,799 222,766 211,799 223,596 221,799 223,596 221,799 224,566 221,799 223,596 221,799 224,566 221,799 224,566 221,796 221,799 224,566 221,796 222,796 222,796 222,796 222,796 222,796 222,796 223,796 223,796 223,796 223,796 224,7
Sep FY2007 4.995 6.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4905 55,5919 55,5919 55,5919 51,507 51,51
Aug F72007 12,412 0 2,507 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1004(30) 1004(30) 1004(30) 1004(30) 112,470 112,477 112,477 112,477 112,477 112,477 112,477 112,477 112,477 112,474
Jul FY2007 4,995 0 0 18,462 0 15,290 0 15,290 0 0 0 0 0	1004.3/m 1004.3/m 1004.3/m 1004.3/m 1004.3/m 1004.3/m 112.4/m 112.4/m 112.4/m 112.4/m 112.4/m 112.4/m 112.4/m 112.4/m 112.4/m 12.2/m 1
Jun FY2007 4,995 5,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10,010 55,922 55,922 55,922 55,924 55,924 55,924 55,924 55,924 55,934 55,534
May FY2007 4,995 4,995 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22,040 53,532 53,532 53,532 53,532 53,532 53,532 53,537 54,699 54,535 54,635 54,635 54,635 55,536 56,536
Apr FY2007 4,995 6,015 5,015 7,015 0 0 11,696 0 0 0 0	2,705 25,504 25,504 25,504 25,504 25,504 25,506 25,5566 25,5566 25,5566 25,5566 11,5,475 1,5,475 1
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cb FY2007 7 4,995 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.995 653922 553922 553922 45,091 13,440 13,544 14,5444 14,5444 14,5444 14,5444 14,5444414,54444 14,5444414,54444 14,54
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Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 20 Witness: Robert R. Cook Jr.

Data Request:

Concerning Atmos's distribution system within Kentucky, indicate what percentage of the system is bare steel, cast iron, coated steel, and plastic.

Response:

Atmos' system description for distribution system within Kentucky is separated by the following classifications:

Main	Miles	%
Bare steel (unprotected):	205 miles	5.63%
Bare steel (protected):	82 miles	2.25%
Cast iron:	2 miles	0.05%
Coated Steel	2,205 miles	60.59%
Plastic (PE)	<u>1,145 miles</u>	31.46%
Total	3,639 miles	100.00%
Services		
Bare steel (unprotected):	1,474 miles	0.84%
Bare steel (protected):	6,286 miles	3.59%
Cast iron:	0 miles	0.00%
Coated Steel	84,559 miles	48.23%
Plastic (PE)	83,001 miles	47.34%
Total	175,320 miles	100.00%

**The above information for Kentucky was taken from the annual DOT report calendar year 2005-Gas Distribution System.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 21 Witness: Rad Cook

Data Request:

Refer to the Cook Testimony, page 14. Mr. Cook states that overtime calculations in the Service Charge Studies were only applied to the labor costs of Senior Service Technicians. Explain why overtime was only applied to Senior Service Technicians.

Response:

The service cost analysis focuses on the charges for meter set, turn-on, meter reads, reconnect delinquent service and seasonal turn-ons. Overtime calculations were only applied to Senior Service Technicians performing this work.

Although Service Technicians, Distribution Operators, and Town Operators may also have the opportunity on occasion to work some service orders, the Senior Service Technicians complete the majority of all service orders in the field.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 23 Witness: Dan Meziere, James Cagle

Data Request:

Refer to the Application, Volume 2, Tab 6, the Direct Testimony of Daniel M. Meziere ("Meziere Testimony"), Exhibit DMM-1.

- a. The Cost Allocation Manual ("CAM") provided in Exhibit DMM-1 is dated May 1, 2006. Atmos has stated that, effective October 1, 2006, the Kentucky and Mid-States divisions were consolidated into one division.
 - (1) Was the CAM updated to reflect the consolidation of these operating divisions? Explain the response.
 - (2) If the CAM was not updated to reflect the consolidation of the Kentucky and Mid-States divisions, explain in detail why there was no update.
 - (3) If the CAM was updated to reflect the consolidation of the Kentucky and Mid-States divisions, explain why that version of the CAM was not submitted as Exhibit DMM-1.
 - (4) Provide a copy of the CAM that reflects the Kentucky/Mid-States division consolidation. Identify all changes made to the CAM as a result of the consolidation, as well as any other changes from the version dated May 1, 2006.
- b. Refer to pages 7 and 9 of the CAM. The basis for allocation descriptions for capitalized overhead (general) and stores overhead state that periodically the application rate is reviewed.
 - (1) Indicate how frequently these application rates are reviewed and describe the review process.
 - (2) Can the capitalized overhead (general) application rate be reset as a result of the periodic review? If yes, describe how the rate is reset.
- c. Refer to page 13 of the CAM. Explain why the percentage of customers in the operating divisions is a reasonable means for allocating the Shared Services unit general office depreciation and taxes other than income taxes.
- d. Refer to page 27 of the CAM. Explain why the Shared Services unit other income and interest expense are allocated using a budget allocation percentage, which is based on net investment by the business unit.
- e. Has the CAM been submitted to the Securities and Exchange Commission or the Federal Energy Regulatory Commission for review and/or approval? Explain the response. In addition, if the CAM has been approved by either agency, provide copies of the approval documentation.

Response:

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The CAM was not immediately updated to reflect the change in structure. A fully updated CAM is to be filed by April 1, 2007 which would reflect all changes to allocation methodologies since the last updated CAM. As the Company was in the process of fully describing the methodology in testimony for this case, and the dollar impact of the change in methodology was not material, the Company believed it would be more appropriate to provide the updated CAM at its scheduled time.

a. – 4 The CAM to be filed by April 1, 2007 is currently being compiled and reviewed. Generally, the changes specifically related to the Kentucky division and the Mid-states division are described in Mr. Cagle's testimony.

Page 17 of the CAM is the page affected. In the May 2006 CAM, this page read as follows:

- Service: Mid-States Division general office and regional office expenses to rate division level
- Description: Allocation of operating division general office costs and regional offices costs to rate division levels
- CurrentMid-States Division general officeProviderMid-States Division regional officesOf ServiceMid-States Division regional offices
- Current Use of Mid-States Division rate divisions Service
- Basis for allocation O&M costs are allocated in total based on the average number of customers in each rate division divided by the average total customers encompassed within the Mid-States Division. Depreciation and taxes other than income tax are allocated in total based on the gross plant in each rate division divided by the total gross plant encompassed by the Mid-States Division.

The current draft of this page from the April 2007 CAM reads:

Service: KY/Mid-States Division general office expenses to rate division level

Description:	Allocation of operating division general office costs and regional offices costs to rate division levels
Current Provider Of Service	KY/Mid-States Division general office
Current Use of Service	KY/Mid-States Division rate divisions.
Basis for allocation	Costs are allocated to the states in total based on the Composite Factor. The Composite Factor is the simple average of three percentages:
	The percentage of Gross Direct Property Plant and Equipment in each state as a percentage of the total Direct Property Plant and Equipment in the KY/Mid-States Division.
	The number of customers in each state as a percentage of the total number of customers in KY/Mid-States Division.
	The total direct O&M expense in each state as a percentage of the total direct O&M expense in KY/Mid-States Division.
b.	Generally, these are reviewed annually unless there is a change in the responsibilities of a particular department or cost center at which time it is revisited. These can be reset as a result of the periodic review and if a need for a change is determined, the application of the change is made prospectively.
C.	Depreciation and taxes, other than income taxes, are allocated based upon an average of the three factors noted on page 13 of which number of customers is one component. The use of this multi-factor formula for allocating common costs has been utilized for a number of years and the

- allocating common costs has been utilized for a number of years and the Company believes that the methodology fairly and reasonably allocates these common costs to the Company's rate divisions as a measure of the relative size and investment in the rate division and reflects the overall levels of service provided by Shared Service – General Office.
- d. The allocation of other income and interest expense is done within the Company's books and records for management control purposes and is not appropriate for ratemaking purposes. The Company's Operating Divisions have no debt or equity separate from the Corporation. For management purposes only, the allocation is a reasonable method of

allocating these costs. For ratemaking purposes, the Company synchronizes interest expense utilizing ratebase.

e. No. The company is not required to submit the CAM to either entity. While currently the Company is required to file the CAM only in Kentucky, it has been provided to a number of State commissions to describe the Company's common cost allocation processes (per books). To date, the Company's allocation methodologies memorialized in the CAM have not been explicitly rejected or changed in any of the Company's rate proceedings.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 22 Witness: Robert R. Cook Jr.

Data Request:

Refer to the Cook Testimony, page 15. Provide the cost of returned checks that Atmos actually incurs.

Response:

The costs identified below are costs incurred to process a returned check and to roll a service truck for disconnection of service or to leave a "door tag." The full cycle charges are as follows:

Bank return check fee	\$2.25 Bank check fee
Delinquent/Termination notice	\$0.41 Cost per bill insert item
Total cost to perform 1 of 10, column 14, line 3b	<u>\$17.90</u> Exhibit RRC-1, page
Total (turn off from non-pay)	\$20.56

We surveyed eight (8) local banks and identified the average return check fee being applied was approximately \$24.13. This survey was intended to measure the general level of the returned check charges being applied in the market by the primary banks in the Owensboro area. All of the banks contacted are included in the average. The aim of this local market survey was not to determine the actual level of costs incurred by the company, but rather to determine the general level of returned check charges being utilized in order to affect customer behavior. Our current charge of \$23.00 is slightly below the local bank average.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 24 Witness: Don Roff

Data Request:

Refer to the Application, Volume 2, Tab 8, the Direct Testimony of Donald S. Roff ("Roff Testimony").

- a. State when the last depreciation study for Atmos's Kentucky operations was performed and what time period was covered by the depreciation study.
- b. Has Atmos begun using the depreciation rates from the "Kentucky Depreciation Study" for accounting purposes? If yes, indicate when Atmos began using those depreciation rates.
- c. State when the last depreciation study for Atmos's Shared Services unit was performed and what time period was covered by the depreciation study.
- d. Has Atmos begun using the depreciation rates from the "SSU Depreciation Study" for accounting purposes? If yes, indicate when Atmos began using those depreciation rates.

Response:

- (a) The last depreciation study for Atmos Kentucky operations was conducted in early 2006 and included history through 9/30/2005.
- (b) No.
- (c) The last depreciation study for the Atmos Shared Services unit was conducted in late 2006 and included history through 9/30/2006.
- (d) No.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 25 Witness: Don Roff

Data Request:

Refer to the Roff Testimony, page 3. Mr. Roff quotes a definition of depreciation from the Accounting Research Bulletin No. 43, which was issued in 1953.

- a. Is this the most current definition of depreciation issued by the American Institute of Certified Public Accountants ("AICPA")?
- b. If there is a more current pronouncement from the AICPA, provide a copy of the pronouncement and explain why Mr. Roff did not reference that citation.

Response:

- (a) To the best of Mr. Roff's knowledge, this is the most recent definition of depreciation accounting.
- (b) Mr. Roff is unaware of a more current pronouncement.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 26 Witness: Don Roff

Data Request:

Refer to the Roff Testimony, page 6. Mr. Roff includes a quotation on net salvage taken from the National Association of Regulatory Utility Commissioners' ("NARUC") Public Utility Depreciation Practices, 1968 Edition. Explain why Mr. Roff did not reference NARUC's Public Utility Depreciation Practices, August 1996 Edition.

Response:

Essentially the same quotation appears at page 18 of the 1996 edition.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 27 Witness: Don Roff

Data Request:

Refer to the Roff Testimony, page 9.

- a. Explain in detail why the annual salvage amounts, costs of removal, and retirements used in the Kentucky Depreciation Study were limited to the period 1991 through September 30, 2005.
- b. Explain in detail why the annual salvage amounts, costs of removal, and retirements used in the SSU Depreciation Study were limited to the period 1993 through 2006.
- c. If the annual salvage amounts, costs of removal, and retirements information were available for periods earlier than 1991 or 1993, explain in detail why the additional information was not included in the two depreciation studies.

Response:

- (a) The Kentucky Depreciation Study actually used salvage, cost of removal and retirement experience for the period 1996 through 2005. This period was determined to be the most meaningful for developing net salvage allowances.
- (b) The SSU Depreciation Study used salvage, cost of removal and retirement experience for the period 1993 through 2006. This period was determined to be the most meaningful for developing net salvage allowances.
- (c) Please see responses to 27a. and 27b.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 28 Witness: Don Roff

Data Request:

Refer to the Roff Testimony, page 12. Explain in detail why cushion gas should be treated as a depreciable asset. Include citations to regulatory decisions in other states where cushion gas has been included as a depreciable asset.

Response:

The cushion determined to be a depreciable asset is the non-recoverable portion of cushion gas. Mr. Roff did not conduct any research regarding the regulatory treatment of cushion gas in other jurisdictions. Mr. Roff is aware that Avista Corporation has depreciated cushion gas. There are numerous tax cases allowing a depreciation deduction for non-recoverable cushion gas.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 29 Witness: Don Roff

Data Request:

Refer to the Roff Testimony, Exhibit DSR-3.

- a. Refer to page 5. What are the actual costs of plant removal incurred by Atmos during 1996-2005? Provide a comparison table showing the actual removal costs and the costs used in the depreciation study.
- b. Refer to page 7. Has Atmos matched the depreciation provision to the actual consumption of physical assets during 1991 to 2005? Explain in detail relative to Atmos data reported for September 2005 depreciation study.
- c. Page 8 of the Exhibit states that "[f]or most accounts, retirement experience from transaction years 1973 through 2005 was analyzed using the Actuarial Method of Life Analysis." Further, page 10 of the Exhibit states that "[s]alvage and cost of removal experience was analyzed using experience from the period 1996-2005." However, the Roff Testimony on page 9 states this information covered the period 1991 through 2005. Explain why there appears to be a disagreement between the Kentucky Depreciation Study and the Roff Testimony and indicate which statement is correct.
- d. Refer to page 10 of the Exhibit. Indicate the asset accounts where the Simulated Plant Record ("SPR") Method was utilized to evaluate retirements. For each identified account, explain why the SPR Method was utilized instead of using actual retirement history.
- e. Refer to page 11. Mr. Roff indicates that blind acceptance of history results in recovery over a longer period than productive life. Does the new technology and more advanced inspection equipment increase the productive life of major assets and results in assets living longer than the past? If yes, explain your statement.
- f. Refer to page 15. Explain the vintage amortization accounting process and the functional composite depreciation rates.
- g. Refer to Schedules 1 and 2 of the Exhibit. Provide all workpapers, calculations, assumptions, plots of all referenced Iowa curves, and other documentation supporting the information presented on these schedules.
- h. Refer to Schedule 1, Cushion Gas. Provide justification for depreciating the cushion gas at the rate of 2.38 percent.
- i. Refer to Schedule 1, Meters. The depreciation rates on meters have been increased considerably since the last depreciation study. Explain the reason for the change.
- j. Refer to Appendix A, page 1 of 10. Provide an example calculation of the arithmetic average of a major group and explain why it is appropriate to use such a calculation to find the average life of that group.

Response:

- (a) The cost of removal shown in the salvage and cost of removal reflect the actual removal costs incurred by Atmos and used in the depreciation study.
- (b) No.
- (c) The life analysis period was 1973-2005. The correct salvage analysis period is 1996-2005.
- (d) Actual gross retirement history was used with the SPR method for the following accounts:

Accounts 351, 352, 366, 367, 369, 375, 376, 378, 379, 380, 381, 382, 383, 385, 390, 391, 392, 394, 396, 397, and 399.06.

- (e) Not necessarily. Most asset retirements do not occur due to assets physically wearing out. While new technology and more advanced inspection techniques contribute to asset life, the retirement of assets due to other causes also contribute to asset lives.
- (f) Vintage amortization accounting is a process that eliminates the need for tracking retirements of physical plant. When a vintage asset category attains an age equal to its amortization period, a retirement is made.

With respect to the recommended functional composite depreciation rates, the purpose is to provide a process for which to depreciate new asset categories with an authorized and approved depreciation rate until such time as a new depreciation study can develop depreciation rates for these new asset categories.

- (g) Please see the attached workpapers to the response to the Attorney General's first set of data requests number 87.
- (h) The depreciation rate was developed using the remaining life technique as follows:

Plant Balance (\$1,694,833) minus Accumulated Depreciation (\$23,304) = Net Plant of \$1,671,529 divided by a remaining life of 41.50 years equals annual depreciation of \$40,278, divided by the Plant Balance of \$1,694,833 = a depreciation rate of 2.38%.

- (i) The depreciation rate for Account 381, Meters increases due to a shorter Average Service Life and more negative net salvage, coupled with the reserve position.
- (j) Consider this example. Assume we have an asset group comprised of two equal assets; one with a life of two years and one with a life of eight years. The average life of this group is five years. Neither of the assets has a life equal to the "arithmetic" average.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 30 Witness: Don Roff

Data Request:

Refer to the Roff Testimony, Exhibit DSR-4.

- a. Page 8 of the Exhibit states that "Retirement experience from transaction years 1987 through 2006 were analyzed using the Actuarial Method of Life Analysis." However, the Roff Testimony on page 9 states this information covered the period 1993 through 2006. Explain why there appears to be a disagreement between the SSU Depreciation Study and the Roff Testimony and indicate which statement is correct.
- b. Refer to page 13. Explain why Atmos should utilize the vintage amortization accounting process and why it should use the functional composite depreciation rates.
- c. Refer to Schedules 1 and 2 of the Exhibit. Provide all workpapers, calculations, assumptions, plots of all referenced lowa curves, and other documentation supporting the information presented on these schedules.

Response:

- (a) The life analysis period was 1987 through 2006. The salvage and cost of removal analysis period was 1993 through 2006. These are simply two different analyses.
- (b) The use of the vintage amortization accounting process would enable Atmos to eliminate the tracking of hundreds of small items, and permit a better use of internal resources. The use of approved and authorized functional composite depreciation for new asset categories allows Atmos to depreciate new asset categories between depreciation studies.
- (c) Please see the attached workpapers to the response to the Attorney General's first set of data requests number 87.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 31 Witness: Laurie Sherwood

Data Request:

Refer to the Application, Volume 3, Tab 9, the Direct Testimony of Laurie M. Sherwood ("Sherwood Testimony"). Provide a schedule showing Atmos's actual capital structure and capital ratios as of March 31, June 30, September 30, and December 31 for calendar years 2004, 2005, and 2006.

Response:

Please see response to AG DR 1-235.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 32 Witness: Laurie Sherwood

Data Request:

Refer to the Sherwood Testimony, pages 9 through 14.

- a. Describe any affiliation or corporate association between Atmos or Blueflame Insurance Services, Ltd. ("Blueflame") and the following entities:
 - (1) Aon Risk Manager Bermuda.
 - (2) United Insurance Company.
 - (3) OIL Co.
- b. Provide copies of any studies or analyses performed by or for Atmos that support the contention that Blueflame provides cost-effective property insurance coverage to Atmos and its utility assets.
- c. Provide the annual premium for coverage paid to Blueflame by Atmos for 2004 through 2006. Include a detailed breakdown of how the annual premium was calculated. If available, provide this same information for 2007.
- d. Provide the portion of the annual Blueflame premium charged to Atmos's Kentucky operations for 2004 through 2006, as well as the amount to be charged in 2007 if available. Breakdown the premium charged into the following components:
 - (1) The direct charge for Kentucky's gross plant balance.
 - (2) The charge to the Kentucky/Mid-States division general office and the portion of this charge eventually allocated to Kentucky operations.
 - (3) The charge to the Shared Services unit general office and the portion of this charge eventually allocated to Kentucky operations.

Response:

a. None. Aon Risk Manager-Bermuda is Blueflame's third-party agent in Bermuda. The other two companies are third-party commercial reinsurance carriers.

b. Atmos periodically seeks quotes from the third-party commercial insurance market for its coverage. However, no carrier is willing to quote the coverage required by Atmos.

c. Please see attached schedules. The premium is calculated by taking the sum of the following:

1-Reinsurance from United Insurance Co, plus

2-Reinsurance from OIL, plus

3-(for the last three years or so), the deductible buydown premium for the difference between \$100,000 deductible and the attachment of United.

That premium (item 3) was determined based upon our consideration of market rates, or in the case of the most recent year, the direct quote received from Aegis for comparison purposes.

d. Please see attached schedules labeled Case 2006-00464 KPSC DR2-32 ITEM C ATT and Case 2006-00464 KPSC DR2-32 ITEM D ATT.

KPSC 2-32(c) Summary of Premiums paid to Blueflame for Property Insurance

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Total	Premiums Paid	\$ 1,870,214	\$ 3,000,000	\$ 6,035,713	\$ 5,357,458
Coverage period	(Calendar Yr)	2004	2005	2006	2007

tucky KPSC DR 2-32 (d) Blueflame charger 2004 thru Project

	Month	
	, an-odd Feb-04	4
	Cost Center Service Sub Accoul Description	
	Kentucky 2607 009000 04070 Blueflame Property Insurance 040 22607 0090000 04059 Blueflame Property Insurance	15,508.37 17,247.62
	d(1) Direct charge for Kentucky's gross plant balance	(40.013.17)
٩	Cap portion of insurance in 04072 related to 04069/04070	5.495.20
	Kentucky Div Total Blueflame expense less Capitalized portion	
	Div 091 - Mid-States General Office 050 2607/3307 1031000 04070 Blueflame Property Insurance 050 2607/3307 1091000 04069 Blueflame Property Insurance	
A	050 Total Bluelfame expense charged to Mid-States general onice Cap portion of Insurance in 04072 related to 04069/04070	
	Shared Services allocation to Division 091	
	Total Division 91 before allocation to Kentucky Mid-States allocation percentage to Kentucky Division	
	Mid-States allocation to Kentucky Division	
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KPSC DR 2-32 (d) Blueflame charger 2004 thru Project

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Cap percentage of Insurance in 04072 related to 04059/04070 Cap portion of Insurance in 04072 related to 04059/04070	

TOTAL EXPENSE TO KY - DIRECT AND ALLOCATED

6,575 \$ 6,814 \$ 7,528 \$ 7.501 \$ (38,120) \$ 11,527 \$ 9,100 \$ 15,304 31,919 \$ - \$ 5,689 \$ - \$ - \$

KPSC DR 2-32 (d) Blueflame charge ^r 2004 then Project	2
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	2005
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Cost Center Service Sub Accou Description	13 771 BG 13 771 BG 1
Property Insurance 13,271.86 Property Insurance 13,271.86	13,271.86 13,271.86 13,271.86 13,271.86 13,267.07 13,271.86 13,271.86
d(1) Direct charge for retrievey a year of the second of the se	(6.499.93) (6.596.01) (6.916.85) (7.741.33) (7.766.53) (7.796.53) (7.796.53) (7.796.53) (7.796.53) (7.796.53) (7.99.81) (9.700.09) (9.71.62) (9.71.52) (9.71.52) (6.475.33) (7.796.53) (7.796.53) (7.796.53) (7.796.53) (7.796.73) (7.796.73) (7.796.73) (7.796.73) (7.796.73) (7.796.74.71) (7.600.76) (7.796.75) (7.796.75) (7.796.75) (7.796.75) (7.796.75) (7.796.75) (7.796.75) (7.760.7
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Shared Services allocation to Division 091 Total Division 91 before allocation to Kentucky Mid-States allocation percentage to Kentucky Division	
Mid-States allocation to Kentucky Division	
Shared Services 002000 04070 Blueflame Property Insurance 9,498,95 010 1915 002000 04059 Blueflame Property Insurance 9,498,95 010 1916 002000 04059 Blueflame Property Insurance 9,498,95 010 1916 002000 04059 Blueflame Property Insurance 9,498,95 010 Total Blueflame expense charged to Shared Services general office 9,498,95 020 Cost Center 1915 allocation percentage to Kentucky Division 4,78% Cost Center 1915 allocation to Kentucky Division 454,05	9,498.95 113,987 6 9,498.95 9,498.95 9,498.95 9,498.95 9,498.95 9,498.95 9,498.95 113,987 6 4,78% 4,78% 4,78% 4,78% 5,09% 5,09% 5,09% 5,09% 6 454.05 454.05 454.05 454.05 454.05 454.05 454.05 454.05 453.50 483.50 483.50 483.50 5,537
Shared Services - Except Call Centers Blueflame Property insurance 010 1915 1002000 104059 Blueflame Property insurance 010 1016 Blueflame expense charged to Shared Services general office - Cost Center 1915 allocation percentage to Mid-States Cost Center 1915 allocation to Mid-States General Office -	

2005	Sub Accoul Description Jan-05 Feb-05 Mar-05 Apr-05 May-05 Jun-05 Jul-05 Aug-05 Sep-05 Oct-05 Nov-05 Dec-05 .	Shared Services - Call Centers 010 11203 1012000 104069 Blueflame Property Insurance 010 Total Blueflame expense charged to Shared Services general office	Cost Center 1915 allocation percentage to Mid-States	allocation to Mid-States General Onive	ATIONS ATIONS 000000 04070 Blueflame Property Insurance 13,271,86	Nur-total Sur-total Sur-total 31.33% 49.98% 49.70% 52.12% 59.66% 58.35% 57.36% 57.32% 53.39% 57.32% 53.39% 57.32% 53.39% 57.32% 53.35% 57.32% 57.32% 53.35% 57.32% 57.32% 53.35% 57.32	CALCULATIONS CALCULATIONS 05:0 2607/3307 091000 04070 Blueflame Property insurance - <	Cap percentage of Insurance in 04072 related to 04069 AND 04070
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TOTAL EXPENSE TO KY - DIRECT AND ALLOCATED

\$ 9,567 \$ 7,226 \$ 7,130 \$ 6,809 \$ 5,816 \$ 5,982 \$ 6,032 \$ 5,929 \$ 6,132 \$ 6,596 \$ 6,999 \$ 7,408 81,524

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8 	2005 Projected Tro Oct-D6 Nov-D6 Dec-06 Total Cost C (39.816)	0,00 185,014,01 4	- 185,014,01 297,782 10,000 1	28,196.98 28,196.98 (100,756.72) (44,363) 1,057 12,683 28,196.98 28,196.98 (100,756.72) (44,363) 1,057 12,683	(13,888.29) 18,710.52 (9,718) (524) 3,186.67 9,522.31 15,896 2,634	16,853.75 17,485.36 (72,523.89) (38,185) 3,068 36,813 36,78% 36,78% 36,78% 36,8% 36,8%	6,198.81 6,431.12 (26,674.29) (14,044) 1,128 13,540	575.30 0.00 0.00 222.675 0	21,575.30 21,575.30 64,470.59 107,621 7,049 84,593 - 21,575.30 21,575.30 64,470.59 107,621 7,049 84,593 - 14,77% 14,77% 14,77% 14,77% 14,8% 14,8% - 3,186.67 3,186.67 9,522.31 15,896 1,041 12,494
	Feb-06 Mar-06 May-06 Jun-06 Jul-06 Aug-06 Sep-06	26.475.33 26.475.33 <t< th=""><th>(12,705.98) (12,460.39) (12,894.43) (12,784.16) (13,227.69) (13,363.23) (14,668.43) (16,794.13) (16,511.43) (13,141.43) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.14) (12,795.13) (12,795.13) (12,795.13) (12,795.13) (12,795.13) (12,795.13) (12,795.13) (12,795.14) (12,795.13) (12,795.13) (12,795.13) (12,795.13) (12,795.14) (12,79</th><th></th><th></th><th></th><th></th><th>21,575.30 <t< th=""><th></th></t<></th></t<>	(12,705.98) (12,460.39) (12,894.43) (12,784.16) (13,227.69) (13,363.23) (14,668.43) (16,794.13) (16,511.43) (13,141.43) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.13) (15,794.14) (12,795.13) (12,795.13) (12,795.13) (12,795.13) (12,795.13) (12,795.13) (12,795.13) (12,795.14) (12,795.13) (12,795.13) (12,795.13) (12,795.13) (12,795.14) (12,79					21,575.30 21,575.30 <t< th=""><th></th></t<>	
KPSC DR 2-32 (d) Blueflame charge tucky 2004 thru Project	Company Cost Centel Service Sub Accoul Description Jan-06	Kentucky Control Contro Control Control <t< th=""><th>ized portion</th><th>Div 091 - Mid-States General Office Bluellame Property Insurance 050 2607/3307 091000 04070 Bluellame Property Insurance 050 2607/3307 091000 04059 Bluellame Property Insurance</th><th>050 Total Blueflame expense charged to Mid-States general office - A Cap portion of Insurance in 04072 related to 04059/04070 -</th><th>Shared Services allocation to Division 091 Total Division 91 before allocation to Kentucky</th><th>Mid-States allocation percentage to Kentucky Division Mid-States allocation to Kentucky Division</th><th>Shared Services 002000 04070 Blueflame Property Insurance 21,575,30 010 11915 002000 04070 Blueflame Property Insurance 21,575,30 010 11915 002000 04070 Blueflame Property Insurance 21,575,30 010 11915 002000 040769 Blueflame Property Insurance 21,575,30 010 1011 Blueflame expense charged to Shared Services general office 21,575,30 010 Total Blueflame expense charged to Shared Services general office 21,575,30 Cost Center 1915 allocation percentage to Kentucky Division 1,098,18 5.09%</th><th>Cost Center 1910 auto-autor contexts Shared Services - Except Call Centers 010 1915 1002000 104069 Blueilame Property Insurance 010 Total Blueilame expense charged to Shared Services general office Cost Center 1915 allocation percentage to Mid-States General office Cost Center 1915 allocation to Mid-States General Office</th></t<>	ized portion	Div 091 - Mid-States General Office Bluellame Property Insurance 050 2607/3307 091000 04070 Bluellame Property Insurance 050 2607/3307 091000 04059 Bluellame Property Insurance	050 Total Blueflame expense charged to Mid-States general office - A Cap portion of Insurance in 04072 related to 04059/04070 -	Shared Services allocation to Division 091 Total Division 91 before allocation to Kentucky	Mid-States allocation percentage to Kentucky Division Mid-States allocation to Kentucky Division	Shared Services 002000 04070 Blueflame Property Insurance 21,575,30 010 11915 002000 04070 Blueflame Property Insurance 21,575,30 010 11915 002000 04070 Blueflame Property Insurance 21,575,30 010 11915 002000 040769 Blueflame Property Insurance 21,575,30 010 1011 Blueflame expense charged to Shared Services general office 21,575,30 010 Total Blueflame expense charged to Shared Services general office 21,575,30 Cost Center 1915 allocation percentage to Kentucky Division 1,098,18 5.09%	Cost Center 1910 auto-autor contexts Shared Services - Except Call Centers 010 1915 1002000 104069 Blueilame Property Insurance 010 Total Blueilame expense charged to Shared Services general office Cost Center 1915 allocation percentage to Mid-States General office Cost Center 1915 allocation to Mid-States General Office

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KPSC DR 2-32 (d)	Blueflame charger	2004 thru Project

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	Mar-06 Apr-06		ŧ	
	Feb-06 N		1	
	Jan-06		1	
	Company Cost Centel Service Sub Accou Description	iervices - Call Centers	010 1203 1012000 04009 04009 04009	
_	Center Service	- Call Centers	UUVZIUU	מוום בצהרוכר הוומ
2004 thru Project	Company Cost C	Shared Services - Call Centers	010 [1203	10101 101al DIU

Calendar 2007 Calendar 2007 Monthly Total Year Projected Projected Cost Cost 10,593 127,117	10,593 127,117 15.0% 15.0% 1.503 19,118			25,446 305,352 25,446 305,352 25,446 305,352 59% 59% (15,013) (180,158)		\$ 11,128 \$ 133,534	
Zoos Zoos An-O6 Apr-O6 Mar-O6 Mar-O6 Mar-O6 Mar-O6 Jul-O6 Aug-O6 Sep-O6 Nov-O6 Dec-O6 Total Aug-O6 Sep-O6 Nov-O6 Dec-O6 Total	O4069 Blueflame Property Insurance 21,575,30 21,575,30 24,77% 14,7	Cost Center 1915 allocation percentage to Mid-States General Office Cost Center 1915 allocation to Mid-States General Office	CatCULATIONS CatCULATIONS <th colspan<="" td=""><td>CALCULATIONS CALCULATIONS 050 2607/3307 091000 04070 Blueflame Property Insurance -</td><td>1.20.20</td><td>TOTAL EXPENSE TO KY - DIRECT AND ALLOCATED \$ 14,868 \$ 15,113 \$ 14,679 \$ 14,789 \$ 14,346 \$ 14,210 \$ 12,905 \$ 10,779 \$ 10,962 \$ 6,199 \$ 6,431 \$ 158,340 293,621</td></th>	<td>CALCULATIONS CALCULATIONS 050 2607/3307 091000 04070 Blueflame Property Insurance -</td> <td>1.20.20</td> <td>TOTAL EXPENSE TO KY - DIRECT AND ALLOCATED \$ 14,868 \$ 15,113 \$ 14,679 \$ 14,789 \$ 14,346 \$ 14,210 \$ 12,905 \$ 10,779 \$ 10,962 \$ 6,199 \$ 6,431 \$ 158,340 293,621</td>	CALCULATIONS CALCULATIONS 050 2607/3307 091000 04070 Blueflame Property Insurance -	1.20.20	TOTAL EXPENSE TO KY - DIRECT AND ALLOCATED \$ 14,868 \$ 15,113 \$ 14,679 \$ 14,789 \$ 14,346 \$ 14,210 \$ 12,905 \$ 10,779 \$ 10,962 \$ 6,199 \$ 6,431 \$ 158,340 293,621

TOTAL EXPENSE TO KY - DIRECT AND ALLOCATED

Summary of Premiums paid to Blueflame for Property Insurance

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			Property Damage			
Coverage	Тс	otal Premiums	Deductible	Property		TXU-3
period		Paid	Reimbursement	Insurance	 Atmos	 months
CY03	\$	887,454.00	not sure how this breaks	out in CY03	887,454.00	na
CY04	\$	1,870,214.00	not sure how this breaks	out in CY04	1,520,214.00	350,000.00
paid in CY04	\$	2,757,668.00			\$ 2,407,668.00	\$ 350,000.00
		<u></u>				
CY05	\$	3,000,000.00	1,692,858.00	1,307,142.00		
CY06	\$	6,035,713.00	2,649,997.00	3,385,716.00		
CY07	\$	5,357,457.59	2,216,825.00	3,140,632.59		

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\$ 2,216,825.00Property Damage Deducti ble Reimbursement3,140,632.59Property Insurance\$ 5,357,457.59Total Annual Premium paid to Blueflame for CY 2007

Blueflame Insurance Services, Ltd. c/o AON INSURANCE MANAGERS (BERMUDA) LTD. Craig Appin House P.O. Box HM 2450 Hamilton HM JX Bermuda

INVOICE NO. 1	NAME OF ORIGINAL INSURI	ED
14 02 2007	Atmos Energy Corporation	
DAY MO. YR.		
POLICY NO.	COVERAGE	PREMIUM
	Effective January 1, 2007 to January 1, 2008	
BFI 1002-07 P	roperty Damage Deductible Reimbursement	US\$ 2,216,825.00
		1708 B 31 < 035 00
	TOTAL PREMIUM DUE:	US\$ 2,216,825.00
Wire transfer instruct For US\$ please wire tra		
Correspondent Bank:	CITIBANK N.A.	
	111, Wall Street New York, NY 021, 000089	
S.W.I.F.T. Code:	CITIUS 33	
Beneficiary Bank:	THE BANK OF BERMUDA LIMITED Hamilton, Bermuda	
S.W.I.F.T. Code	BBDA BMHM	
For further credit: Account Number:	BLUEFLAME INSURANCE SERVICES, LTD. 010-096 311 501	
Attention:	Carlene Rodney	



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FT# 89 021607 Assigned by Treasury

Funds Transfer E-Form

NOTE: Select a Company from the Drop-down List & Fill-In the Yellow Shaded Fields as Needed

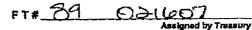
Company:		Atmos E	nergy	Corpo	ration	•
P.O. Box 650205 Dallas, Texas 75265	-0205	Payment Due	Date 1	*	Tuesday, Feb	muary 13, 2007
Please transfer to:	Aon ins Managers (Be	emuda) Ltd				
Bank Name: ASA Number: Account Number: City:	CITIUS 33 822397 Hamilton			State:	Bernuda	
		Staffer with the		い、外資料で	1. "你们不是你是你的	Anester
Line 1 Line 2 Line 3	Policy # BFI 1001-07 - n Policy date 1/1/07-1/1/0 Altn: Carlene Rodney	8	(Optio (Optio	nai)		\$2,216,825.00
					2 2 3 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	مانون الاومش والمراجع المراجع المراجع المراجع المراجع
	Bank Name: Bank Acct. Number: ABA Number:	0180347 0260-09	500 59-3			
the states we please		and the set of the set		_ مشتقص الم		
Ac Debit	count Credit	Company (3)	Cost Center (4)	Account (4)	Sutu Account (5)	Service Area (8)
	\$2,216,825.00	010	0000	1310	19408	002000
2,216,825.00		010	0000	1850	13067	002000
				L		
					RECE	/ED
\$2,216,825.00						
	Sub-Total from Continuation	n Sheets 🔲 se	e Attacherunis for	Additional Account	t Coding Fig. 1 - 5	2007
	Project	analite Cartestanti car en las eleves			an distriction of	
Ac	count	Project Number (5)	Task Number (6)		Description)	Organization
				,		
				<u> </u>		
				<u> </u>		
\$0.00		l		A		
\$0.00	Sub-Total from Continuation	n Sheet 🛛 See	Attachments for	Additional Account	Coding	
Requested by:	Jackgu	eline Madrid			Land Risk Mgm	L& Claims Analyst
	Area Coda:	(972)	Phone #:		55-9774	
Approved by:	Robert U	1. Best		Data:	2/14/07 Date	Required

Blueflame Insurance Services, Ltd. c/o AON INSURANCE MANAGERS (BERMUDA) LTD. Craig Appin House P.O. Box HM 2450 Hamilton HM JX Bermuda

INVOICE NO. 1	NAME OF ORIGINAL INSURE	D
12 02 2007	Atmos Energy Corporation	
DAY MO. YR.		
POLICY NO.	COVERAGE	PREMIUM
	Effective January 1, 2007 to January 1, 2008	
BFI 1001-07 P	US\$ 3,140,632.59	
	TOTAL PREMIUM DUE:	US\$ 3,140,632.59
<u>Wire transfer instruct</u> For US\$ please wire tra		
Correspondent Bank:	CITIBANK N.A. 111, Wall Street New York, NY	
S.W.I.F.T. Code:	CITIUS 33	
Beneficiary Bank:	THE BANK OF BERMUDA LIMITED Hamilton, Bermuda	
S.W.I.F.T. Code	BBDA BMHM	
For further credit: Account Number:	BLUEFLAME INSURANCE SERVICES, LTD. 822397	
Attention:	Carlene Rodney	

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Funds Transfer E-Form

NOTE: Select a Company from the Drop-down List & Fill-in the Yellow Shaded Fields as Needed Atmos Energy Corporation Company: Tuesday, February 13, 2007 Payment Due Date 30 P.O. Box 850205 Dallas, Texas 76265-0205 Aon Ins Managers (Bermuda) Ltd Please transfer to: Bank Name: The Bank of Bermuda Limited ABA Number; CITIUS 33 822397 Account Number: State: **Bermuda** City: Hamilton intermetion: Antest $c \wedge c$ Policy # BFI 1001-07 \$3,140,632.59 Line 1 Policy date 1/1/07-1/1/08 (Optional) Line 2 Attn: Carlene Rodney (Optional) Line 3 The second second second second Transfer Prom: · • • • • • • • • • Bank Name: Bank of America Bank Acct. Number: 0180347500 ABA Number: 0280-0959-3 and Approximiting Plant Publics Non Project N S Million Star 7511 Cost Sub Gandes Account Account Company Center Account Ares . (3) (4) (6) Dabit Credit (4) (6) 10408 002000 \$3,140,632.59 010 0000 1310 1650 002000 010 0000 13087 3,140,632.59 RECEIVED \$3,140,632.59 Sub-Total \$8.00 Sub-Total from Continuation Sheets See Allachen 5 **5** M Project Related Assessed มหลุก - การมหาราชม มีการการให้แม้กา done Experietor SUSY DEPARTMENTS Organization Task Account Project Number Number (Brief Description) (8) (5) Debit \$0.00 See Attachments for Additional Account Cooling 60.00 Sub-Total from Continuation Sheet Lead Risk Mgmt. & Claims Analyst Jackqueline Madrid Requested by: (972) Phone #: 855-9774 Area Code: W. Best Signature Required pobert 2/14/07 Date: Approved by: Date Required

	Balance Type Act	ual		/	urrency Type Ent
Batch	Journal Entry	Source	Currency	Line	Entered Debi
23107 Payables S	Purchase Involces	L Payables	USD	9	2,649,997.00
23107 Payables S	Purchase Involces	L Payables	USD	10	3,385,716.00
	and a second				and the second se

Coverage Effective Dec 31, 2005-Dec 31, 2006 Property Damage Deductible Reimbursement Property Insurance	<u>CY 06 Premiums</u> 2,649,997.00 3,385,716.00		Monthly
Total paid to Blueflame	6,035,713.00	12	502,976

6,035,712.00 12 502,976.00 (1.00)

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FT# 53 OPO706

Funds Transfer E-Form

NOTE: Select a Company from the Drop-down List & Fill-in the Yellow Shuded Fields as Needed

Company:		Atmos E	nergy	Corpo	oration	
.O. Box 850205 Silan, Taxas 76256		Payment Due I	Date w	4	Wodnesday, F	abruary 01, 2006
lease transfer to;	Ach ins Managers (Be	mude) Ltd				
Bank Name: ABA Number:						
Account Number: City:				State:	Bernuda	
1 Charling	11					Maria
Line 1 Line 2 Line 3	Biusflame Policy # 1002 Afin: Carlene Rodney/\$ 12/31/2005 - 12/31/2009	witz 33 3	(Optio (Optio		_	\$2,649,957.00
Caratine of the	and a second					
	Bank Name: Bank Acct, Number: ABA Number:	Bank of Ame 0160347 1110 - 00	500 01-2			
	11111111111111111111111111111111111111		Gast	1966	Reb	Service
	Court	Company (3)	Center	Account (6)	Account	Artic (8)
Debit	Credit \$2,548,957.00	010	0000	1310	10408	002000
2,549,997.00	[019	0000	1650	13087	012000
	Sub-Total from Continuation			Addante Activ		
	and the second		Taak			
Ac DebR		Project Number	Number (P)		nditure Type Description}	Expenditure Organization
						RECEIVED
				<u> </u>		FEE put and PM
50.04 \$0.04 Requested by:	8 Bub-Total from Continuation	n Sheet El Fer atma Machid	. At net years to be) Andlihernel Aschur	Chord	FATINY DELITET
Approved by:	Area Code: Robert U), Best	Phone #1	Dain:	2/2/0	- Raquined

Eineflaue Inservance Services, Lid. c/o AON INSURANCE MANAGERS (BERMUDA) LTD. Craig Appin Home P.O. Box HM 2450 Hemilton IM JX Bennuda

INVOICE NO. 1 26 01 200 DAY MO. YE		D
POLICY NO.	COVERAGE	PREMIUM
	Effective December 31, 2005 - December 31, 2006	
BFI 1002-06	Property Damaga Deductible Reimburgement	US\$ 2,649,997 00
	TOTAL PREMIUM DUE:	USS 2,649,997-80
Wire transfer inth For USS please wire Correspondent Bank	transfer premium to:	
S.W.1.F.T. Code:	CITIUS 33	
	THE BANK OF BERMUDA LIMITED	
Beneficiary Bank:	Hamiliton, Bermutia	
Beneficiary Bank: S.W.I.F.T Code	Hamilton, Bernuda BBDA BMHM	
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FT# 53 020706 Assigned by Transmiry

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Funds Transfer E-Form

Requested by:	Jack-	unline Macht		-	LODG HACK MON	of & Cisims Analyst
	Sub-Total from Continuation		Alexandra W	addisial Popula	Contractable DF	
	<u> </u>				FEB 0 6	
				1	RECEI	
Debb		(8)	Number (0)	1 .	Description)	Organization
		Project Number	Test		entiture Type	Expenditure
\$0.03	Bub-Totel from Continuate			Additional Access		
\$3,345,716.00	Suto-Total	L	L	L	L	l
3,385,718,00	\$3,3\$5,718.00	010	0000	1050	13067	002000
Debit	Credit	(1)	(4)	14)	(8)	002000
Aci	tenes	Company	Cont Center	Account	Bub Account	Service Ana
	No we Horsen	HE KAL				
	ABA Number					
	Bank Name Bank Acct, Number					
S. S. S.					4	
Line 3	12/31/2005 - 12/31/204	5	(Optk	nal)		
	Bluefiame Policy # 100 Atm: Carlene Rodney#		(Optio	mai)		\$3,388,718.00
Cily:	Handon			State:	Bermude	
ABA Number: socurt Number:	622397					
Bank Name:	Bank of Bermuda					
në transfer to:	Aon ins Menagers (8	emuda) Lid				
Box 550205 38, Texan, 75255	-0205	Payment Due	Date 3		Wednesday, Fi	ibruary 01, 2006
Company:	······	Atmos E				

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Elactione Insurat	
No AON INSURANC	E MANAGERS (BERMUDA) LTD.
Craig Apple Hous	8
P.O. Box HM 2450	1
Hamilton HM JX	
Bermixia	
I.K. J. I.B. K.K.	

INVOICE NO. 1	NAME OF ORIGINAL INSUR	ED		
26 01 200		porsition .		
DAY MO. YR	COVERAGE	PREMIUM		
FOLICY NO.	COTEXAGE	1350(1350)		
	Effective December 31, 2005 - December 31, 2006			
BFI 1001-06	Property Insurance	US\$ 3,385,716.00		
	TOTAL FREMIUM DUE	7109 3 562 /11/ 8		
	IVIAL I KENION DUL	0343903718A9		
Wire trussier instr	uctions as fallows:			
	ractions as foliants: 1 transfar premium to:			
	e transfer premium to: E CITIBANK N.A.			
For USS please wire	n Frankfer premium to: C CITIBANK N.A. 111, Wall Street			
For USS please wire	e transfer premium to: E CITIBANK N.A.			
For USS please wire	n Frankfer premium to: C CITIBANK N.A. 111, Wall Street			
For USS please wire Constpondent Bank	i Frankfer premium to: E CITIBANK N.A. III, Wall Streac New York, NY CITIUS 33			
For USS please wire Constrondent Bank S.W LF.T. Code:	i Frankfer premium to: E CITIBANK N.A. III, Wall Streac New York, NY CITIUS 33			
For USS please wire Constrondent Bank S.W LF.T. Code:	I TUNIGEr premium to: C CTITANK N.A. III, Wall Stead New York, NY CTITUS 33 THE BANK OF BERMUDA LIMITED			
For US\$ please with Contrigondant Bank S.W LF.T. Code: Beneficiary Bank:	I FUNEFER PREMIUM TO: C CITIDANK N.A. IIII, Wall Streat New York, NY CITIUS 33 THE BANK OF BERMUDA LIMITED Hamilton, Bormuda BBDA EMRIM ELUEFLAME INSURANCE SERVICES, LTD			
For USS please wire Contripondent Bank S. W.I.F.T. Code: Beneficiary Bank: S.W.I.F.T. Code	I TUNEEr premium to: C CTITANK N.A. III, Wall Streac New York, NY CTTUS 33 THE BANK OF BERMUDA LIMITED Hamilton, Bornuda BBDA BMHM			
For USS please wire Consequent Bank S. W.LF.T. Code: Beneficiary Bank: S.W.LF.T. Code For further credit:	I FUNEFER PREMIUM TO: C CITIDANK N.A. IIII, Wall Streat New York, NY CITIUS 33 THE BANK OF BERMUDA LIMITED Hamilton, Bormuda BBDA EMRIM ELUEFLAME INSURANCE SERVICES, LTD			

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	Balance Type Actu	อไ			Surrancy Type, Entered	1
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Batch	Journal Entry	Source	Currency	Line	Entered Debit	Entered Credit
16347 Payables 7	Purchase Involces L	Payables	USD	7	1,307,142.00	
16347 Payables 7	Purchase Involces L	Payables	USD	8	1,692,858.00	
cwg-20050401-01	010-005 Amortization	Spreadsheet	USD	1		250,000.00
cwg-20050401-02	010-200 Reclass USC	Spreadsheet	USD	2	43.57	

Coverage Effective Dec 31, 2004-Dec 31, 2005	CY 05 Premiums		Monthly
Property Damage Deductible Reimbursement	1,692,858.00		
Property Insurance	1,307,142.00		
Total paid to Blueflame	3,000,000.00	12	250,000

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FT# 186 038885 Assigned by Treasury

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✤ Funds Transfer E-Form

Company:	Atn	nos Energy	Corpo	oration		-
P.Q. Box 650205 Daims, Texas 75265	5-0205	Payment I	Due Date	-	Thursday, I	March 24, 200
Piesse transfer to:	AON Ins- Murs (Burmu	ida) Lid				
Bank Name: ABA Number:	The Bank of Bermuda	Liniled				
Account Number: City:	822397 Hamkon, Bemuda					
Reference Informati	010:			• • •		Amount
Line 1 Line 2 Line 3	Blueflame Insurance Sv Acct # 82297 Pol # BFI Policy Date: 12/31/04-1	1001-05	(Oplice (Oplice			\$1,307,142
Transfer from:			, <u> </u>			المتحد المتحد المحد الم
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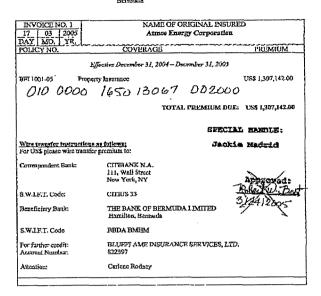
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	Blueflame Insurance Services, Ltd.
cía	AON INSURANCE MANAGERS (BERMUDA) LTD.
	Cruig Appin House
	P.O. Box HM 2450
	Hamilton HM JX
	Benukla



ATMOS energy

FT#______032805______ Assigned by Treasury

Funds Transfer E-Form

NOTE: Select a Company from the Drop-down List & Fill-in the Yellow Shaded Fields on Needed

Company:	Atr	nos Energy	Corpo	ration		-l
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Bank Name: ABA Number:	The Bank of Bermuda	Limited				
Account Number:	822397					
City;	Hamilton, Bernuda					
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Blueflame Insurance Services, Ltd. No AON INSURANCE MANAGERS (BERMUDA) LTD. Craig Appin House P.O. Box HM 2450 Hamilton 11M JX Heemuda

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Blueflame Insurance Services, Ltd. c/o AON INSURANCE MANAGERS (BERMUDA) LTD. Craig Appin House P.O. Box HM 2450 Hamilton HM JX Bermuda

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Blueflame Insurance Services, Ltd. c/o AON INSURANCE MANAGERS (BERMUDA) LTD. Cruig Appln House P.O. Box HM 2450 Hamilton HM IX Bermuda

INVOICE N	0.2	NAME OF ORIGINAL INSU	JRED
23 06	2004	Atmos Energy Corporatio	n.
DAY (MO. POLICY NO.	<u>YR. </u>	COVERAGE	PRF_MILIM
		Effective December 31, 2003 December 31, 2004	e l
15Fi 1002-04	P	reperty Daniage Deductible Reimbursement	U\$\$ 1,400,000.00
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		111, Wall Street New York, NY Robt	ut W. Best
Ş.W.LF.T. Cod	e:	***************************************	SPECIAL HANDLE:
Beneficiary Ba	nic	THE BANK OF BERMUDA LIMITED Hamilton, Benzada	Jackie Madrid
S.W.J.F.T. Cod	ы	BBDA HMHM	
For further cree Account Numb		BLUEFLAMÉ INSURANCE SERVICES, 1. 822397	.m.
Attention:		Caslene Rodney	

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Company:	Atn	nos Energy	Corpo	ration		-[03-260
P.C. Box 650205	***************************************	Payment	Due Cate		Thursday, Ap	xii 08, 2004	
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_IL INSURANCE LIMITL J

P.O. Box HM 1751 Hamilton, Bernuda HM GX

stephone: (441) 225-0905

Provisional Minimum Basic and Flat Premium Billing; Second Quarter 2004 Stated In United States Dollars

11 March 200-Invoice Nomber: 2891

Fecsimile: (441) 295-0351

PREMIM (A)

Gr. Mr. Ray Houses Attras Energy Corporation 5450 LBJ Freeway Suta 700 Calles Teores 75240-2001 LLS, &

FOLICY HOLDER: ATMOS ENERGY CORPORATION

POLICY NUMBER: 2003-200

Policy Period : December 31, 2009 (Midnecht, Eastern) Standard T(NE) To december 31, 2004 (Midnight, Eastern Standard Time)

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fotel	2,223	1,325			100.000%

Bestons: Exhibit 1., Edikhit M Bestons: Piet Premium Blecton, with Ousta State Reaction of 0%, giving Pro-Raiod Assess of \$1,825

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Flat Premium Charge - (Fist Premium Role = 8,670000 cents per \$100 Promied Assets, medifor 0.2)	229,801
Backers Commission - (Baskers Commission Rate = 14.3%)	(80,528)
Total Minimum Basic and Mar Prantum	480,855
Manimum Basic and Fish Prenium Paid, you to data	120,214
Matyum Basic and Fish Pranium due on 1 April 2004	120,214

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Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 33 Witness: Laurie Sherwood

Data Request:

Refer to the Sherwood Testimony, page 9 and Exhibit LMS-2. Ms. Sherwood recommends that the Commission use Atmos's projected cost of long-term debt, 6.10 percent. Provide the basis for Atmos's estimate of 6.10 percent for its projected cost of long-term debt.

Response:

Please see response to AG DR1-34 (a) and (b).

1

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 33 Witness: Laurie Sherwood

Data Request:

Refer to the Sherwood Testimony, page 9 and Exhibit LMS-2. Ms. Sherwood recommends that the Commission use Atmos's projected cost of long-term debt, 6.10 percent. Provide the basis for Atmos's estimate of 6.10 percent for its projected cost of long-term debt.

Response:

Please see response to AG DR1-34 (a) and (b).

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 34 Witness: Laurie Sherwood

Data Request:

Refer to the Sherwood Testimony, Exhibits LMS-1 through LMS-3.

- a. Exhibit LMS-2 shows the average annualized long-term debt as of June 30, 2008. Explain how Atmos determined the interest rate for the unsecured notes shown on line 9 and the US Bancorp debt shown on line 15. Include all workpapers, calculations, and supporting documentation utilized to determine these interest rates.
- b. Other than the two debt issuances noted in part (a) above, the interest rates shown on Exhibit LMS-2 match the interest rates for the corresponding debt issuances as of September 30, 2006, as shown in Exhibit LMS-1. Explain why it is reasonable to assume for these debt issuances that the interest rates as of September 30, 2006 will also be the interest rates as of June 30, 2008.
- c. Exhibit LMS-3 shows the average annualized short-term debt as of June 30, 2008. Explain how Atmos determined the balances and interest rates shown in this exhibit. Include all workpapers, calculations, and supporting documentation utilized to determine the balances and interest rates.

Response:

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- a. The unsecured note on line 9 of Exhibit LMS-2 is a floating rate note, and bears an assumed average interest rate of 6.02%, which is the budgeted rate for fiscal year 2007, assuming a floating rate of 5.75%, 5.75%, 6.00%, and 6.25% for each of the consecutive fiscal quarters, respectively (using a 360-day convention, and weighting each rate by the number of days in the quarter). This average rate is used as the estimated rate for fully refinancing the note upon maturity in October, 2007. The US Bancorp note on line 15 of the same exhibit actually bears a fixed rate of 5.29%, as reflected in LMS-1. The 5.59% rate used is a typographical error which, if corrected, does not affect the composite interest rate of 6.10% due to the relative immateriality of this issuance. Nevertheless, this exhibit and similarly affected filing Schedules J-3 (base and test period) have been corrected and attached in response to AG DR 1-1.
- b. Using the same rate through the term of these notes is reasonable because all of these notes, except the floating-rate note mentioned above and the Pulaski note, bear fixed rates which will not change through maturity. The Pulaski note uses the Bank of America prime rate which changes annually. Since this note has an average principle balance during the test year of only \$69,231, the current rate was used for simplicity.
- c. The short-term debt balances for each fiscal year are projected for budget purposes using the actual daily increase and decrease trends from the prior year.

More specifically, the 2006 actual and projected daily balance changes were used as the basis for projecting and budgeting fiscal 2007 daily balances, and that result was used to project fiscal year 2008. For each projected fiscal year, adjustments were made, spread evenly through the year, to account for budgeted changes in overall projected cash flow. Schedules and work-papers showing this trending and resulting budgets & projections are attached. NOTE that these work-papers support REVISED Exhibit LMS-3, attached in response to AG DR1-1.

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ST Debt / (Investment) FY 2005

80,310,715 82,770,375 42,051,054 90,099,357 85,180,036 15,938,000 13,478,339 11,018,679 105,709,018 87,639,697 18,397,661 30,695,964 28,236,303 25,776,642 23,316,982 20,857,321 35,615,285 33,155,624 40,534,606 38,074,946 52,832,909 50,373,249 47,913,588 42,994,267 55,292,570 45,453,927 65,131,212 62,671,552 57,752,231 70,050,534 67,590,873 60,211,891 TOTAL NON-REG 30,000,000 30,000,000 30,000,000 30,000,000 30,000,000 30,000,000 **AEM External** Oustanding Principal 54,050,000 54,050,000 48,250,000 54,000,000 67,150,000 54,000,000 54,000,000 AEH / AEC NOTE (6,198,946) (3,739,285) (1,279,625) 1,180,036 8,559,018 3,639,697 5,938,000 13,478,339 11,018,679 6,099,357 25,776,642 20,857,321 18,397,661 28,236,303 23,316,982 40,534,606 38,074,946 35,615,285 33,155,624 30,695,964 42,994,267 55,292,570 52,832,909 47,913,588 45,453,927 AEH/AEC NOTE 50,373,249 65,131,212 57,752,231 67,590,873 62,671,552 60,211,891 END BAL (EXCL 70,050,534 Interco Acct Subsidiary APT & 1 of 25 (44,327,108) (89,955,430) (109,398,715) 104,479,393) (99,560,072) 86,177,751) (50,576,678) 131,827,036) 51,260,000) 68,066,285) 64,978,964) (55,140,321) (50,839,357) (73,533,606) (60,059,642) 75,830,570) 68,611,249) (71,597,927) 80,749,891) (85,669,212) (78,501,819) 81,782,176) (82,928,855) (83,764,534) (83,421,140) (80,245,497) (103,396,104) (97,642,782) (88,340,461) (105,376,067) (98,215,746) (99,276,425) BALANCE ENDING UTILITY BAL 39,775,000.00 70,666,000.00 70,800,000.00 70,800,000.00 79,363,000.00 (28,802,000.00) 70,800,000.00 (18,345,000.00) (18,345,000.00) (19,384,000.00) (23,620,000.00) 79,591,000.00 (18,345,000.00) (4,600,000.00) (2,300,000.00) (10,206,000.00) (17,061,000.00) (16,513,000.00) (4,600,000.00) (4,600,000.00) 2,224,000.00 14,045,000.00 7,979,000.00 22,781,000.00 27,164,000.00 27,164,000.00 27,164,000.00 20,501,000.00 21,947,000.00 34,725,000.00 36,966,000.00 30,986,000.00 Debt/(Invest) Outstanding Net S. T. 87,000 109,000 С 23,620,000 28,802,000 20,415,000 19,384,000 209,000 20,415,000 20,415,000 17,061,000 16,513,000 0,206,000 149,000 180,000 221,000 251,000 4,600,000 4,600,000 4,600,000 2,300,000 86,000 86,000 86,000 153,000 Consolidated 0 59,000 14,000 219,000 Outstanding Investments Short Term 70,775,000 39,775,000 79,450,000 79,800,000 70,800,000 70,800,000 70,800,000 0 2,070,000 2,070,000 2,070,000 8,200,000 2,475,000 14,225,000 27,250,000 27,250,000 20,650,000 31,100,000 23,000,000 27,250,000 34,725,000 37,025,000 22,100,000 Outstanding Short Term Debt 31-Aug-05 28-Aug-05 29-Aug-05 30-Aug-05 27-Aug-05 24-Aug-05 25-Aug-05 26-Aug-05 22-Aug-05 23-Aug-05 21-Aug-05 17-Aug-05 18-Aug-05 9-Aug-05 20-Aug-05 4-Aug-05 15-Aug-05 6-Aug-05 13-Aug-05 10-Aug-05 12-Aug-05 11-Aug-05 8-Aug-05 9-Aug-05 7-Aug-05 3-Aug-05 5-Aug-05 6-Aug-05 31-Jul-05 2-Aug-05 4-Aug-05 1-Aug-05 Date

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ST Debt / (Investment) FY 2005

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94,477,988 47,965,755 18,828,522 2,588,088 11,514,688 11,352,455 11,190,222 11,839,155 14,001,388 11,676,922 2,837,555 2,425,855 2,263,621 10,204,255 2,879,788 2,750,321 26,015,421 14,690,955 6,992,021 21,853,188 14,528,721 14,366,488 31,339,888 31,177,654 31,826,588 31,664,354 31,502,121 31,988,821 TOTAL NON-REG 30,000,000 30,000,000 30,000,000 **AEM External** Oustanding Principal 29,570,000 21,445,000 74,895,000 28,545,000 21,445,000 21,445,000 23,445,000 21,445,000 21,445,000 11,545,000 11,545,000 1,545,000 11,545,000 11,350,000 11,470,000 22,350,000 22,350,000 18,350,000 15,300,000 22,350,000 29,350,000 38,350,000 38,350,000 38,350,000 33,350,000 38,350,000 38,350,000 38,350,000 **AEH / AEC** NOTE 10,417,012) 10,579,245) 10,092,545) 10,254,778) (9,930,312) (9,605,845) (9,768,078) (8,956,912) (9,119,145) 9,281,379) (9,443,612) (8,632,445) (8,794,679) (7,983,512) (8,145,745) (8,307,979) (8,470,212) (7,496,812) (7,659,045) (7,821,279) (7,172,346) (7,334,579) (6,685,646) (6,847,879) (7,010,112) **AEH/AEC NOTE** (6,361,179) (6,523,412) END BAL (EXCI Interco Acct Subsidiary APT & (16,638,977) 15,129,910) 14,805,443) 12,889,310) 36,132,490 10,014,776) 15,612,843) 15,454,377) 20,836,576) (18,706,043) 5,186,824 5,511,290 3,930,757 (12,708,976) (15,665,509) 38,908,376) (13,357,909) 13,033,442) 4,445,891 4,862,357 (35,335,309) (37,909,842) (32,204,242) (31,879,775) (32,853,175) (33,327,642) (32,528,709) **3ALANCE UTILITY** ENDING BAL 132,064,000.00 172,317,000.00 7,575,000.00 7,575,000.00 7,575,000.00 10,363,000.00 8,458,000.00 17,988,000.00 10,789,000.00 7,741,000.00 (4,722,000.00) (15,077,000.00) 10,363,000.00 10,363,000.00 10,121,000.00 16,024,000.00 16,024,000.00 16,024,000.00 4,743,000.00 4,798,000.00 27,020,000.00 14,121,000.00 30,800,000.00 30,800,000.00 30,800,000.00 30,650,000.00 30,800,000.00 Debt/(Invest) Outstanding Net S. T. 58,000 86,000 С 0 87,000 87,000 87,000 117,000 162,000 211,000 234,000 201,000 201,000 232,000 15,077,000 329,000 201,000 4,722,000 0 4,130,000 454,000 527,000 Consolidated 0 Investments Outstanding Short Term 172,375,000 132,150,000 7,575,000 7,575,000 7,975,000 7,575,000 8,575,000 11,000,000 10,450,000 8,150,000 10,450,000 10,450,000 0,450,000 16,225,000 6,225,000 4,975,000 5,325,000 6,225,000 31,150,000 14,575,000 30,800,000 30,800,000 30,800,000 30,800,000 30,650,000 Outstanding Short Term Debt 24-Sep-05 25-Sep-05 26-Sep-05 27-Sep-05 22-Sep-05 23-Sep-05 21-Sep-05 16-Sep-05 17-Sep-05 18-Sep-05 19-Sep-05 20-Sep-05 14-Sep-05 15-Sep-05 12-Sep-05 13-Sep-05 10-Sep-05 11-Sep-05 1-Sep-05 6-Sep-05 7-Sep-05 9-Sep-05 8-Sep-05 5-Sep-05 2-Sep-05 3-Sep-05 4-Sep-05 Date

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36,450,622

4,838,710

19,350,323

11,065,945)

39,293,423 64,309,890

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149,000

139,528,000.00

122,000

39,650,000

51,075,000 144,875,000 30,202,581

29-Sep-05 30-Sep-05

28-Sep-05

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41,870,956

12,261,589

(46,286,905)

26,614,339

3,588,242

AVG BALANCI

55,816,288 40,254,055

30,000,000

36,720,000 51,320,000

10,741,478) 10,903,712)

FY 2006 ST Debt / (Investment)

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hit '06 ending Adj. to target 78,066,030 77,720,131 70,858,333 77,374,232 70,512,434 5,594,736 3,940,635 13,436,534 3,501,139 3,907,039 4,902,938 5,248,837 10,238,442 8,809,341 7,155,240 8,054,845 15,125,744 9,546,644 9,892,543 18,733,946 29,972,148 61,117,652 31,749,450 29,280,349 29,626,249 30,318,047 41,571,753 41,833,551 40,945,854 40,254,055 10,599,954 **TOTAL NON-**REG 50,000,000 50,000,000 50,000,000 0 0 0 0 50,000,000 50,000,000 50,000,000 **AEM External** Oustanding Principal 28,755,000 28,755,000 28,755,000 35,855,000 22,585,000 22,585,000 6,705,000 8,055,000 8,705,000 8,705,000 8,705,000 11,995,000 7,995,000 13,995,000 15,770,000 15,770,000 5,770,000 37,925,000 25,995,000 21,695,000 14,970,000 37,925,000 37,925,000 37,925,000 40,740,000 70,800,000 51,170,000 51,600,000 51,320,000 51,320,000 51,320,000 **AEH / AEC** NOTE (688,970) (1,380,768) (1,034,869) (2,072,566) 1,726,667) (3,456,163) (3,110,264) (2,418,466) (4,493,861) (3,802,062) 2,764,365) (4,147,961) (5,531,558) 5,185,659) (4,839,760) (6,569,256) (6,223,356) (5,877,457) (7,261,054) (6,915,155) (8,644,651) (8,298,751) (7,952,852) (7,606,953) (9,336,449) (8,990,550) AEH/AEC NOTE (11,065,945) (10,720,046) (10,028,247) (9,682,348) 10,374,147) END BAL (EXCI Interco Acct Subsidiary APT & 94,008,854 25,776,440) 95,392,450 94,700,652 84,206,252 06,443,626 58,654,227 30,228,248 65,797,449 65,105,651 64,413,852 82,749,258 58,914,530 59,606,328 39,788,600 36,362,837 46,545,519 56,739,985 56,869,090 54,722,717 60,298,127 61,168,470 47,929,116 47,237,318 47,885,900 45,853,721 64,309,890 37,207,352 36,515,554 37,992,738 24,526,098 BALANCE υτιμτγ DAILY BAL 250,140,914 250,140,914 225,231,119 248,160,292 250,140,914 201,096,629 66,535,498 75,603,324 00,673,317 89,751,536 88,042,326 75,603,324 75,603,324 107,407,282 84,974,206 79,391,414 79,391,414 79,391,414 106,489,815 106,489,815 106,489,815 82,978,780 106,489,815 94,207,877 131,553,002 124,667,370 146,761,402 118,407,261 121,136,244 144,818,000 118,407,261 Debt/(Invest) Outstanding Net S. T. 74,744,086 62,864,708 74,744,086 74,744,086 19,114,502 09,253,371 62,993,881 1,957,674 3,746,676 13,746,676 13,746,676 571,220 3,392,718 0,298,464 7,208,586 7,208,586 3,126,683 7,208,586 14,810,185 9,417,123 7,625,794 14,810,185 Consolidated 57,000 6,507,630 4,810,185 14,810,185 14,771,998 26,467,739 26,467,739 29,713,756 20,563,598 nvestments Outstanding υτιμη 311,025,000 324,885,000 324,885,000 324,885,000 310,350,000 288,225,000 89,350,000 85,650,000 103,800,000 100,050,000 90,000,000 89,350,000 89,350,000 110,800,000 86,600,000 86,600,000 92,600,000 86,600,000 121,300,000 121,300,000 103,625,000 83,550,000 121,300,000 121,300,000 131,175,000 150,850,000 167,325,000 146,325,000 144,875,000 144,875,000 144,875,000 Outstanding Short Term Debt 30-Oct-05 29-Oct-05 28-Oct-05 25-Oct-05 26-Oct-05 27-Oct-05 21-Oct-05 22-Oct-05 23-Oct-05 24-Oct-05 19-Oct-05 20-Oct-05 16-Oct-05 17-Oct-05 18-Oct-05 14-Oct-05 12-Oct-05 13-Oct-05 15-Oct-05 11-Oct-05 10-Oct-05 8-Oct-05 9-Oct-05 30-Sep-05 6-Oct-05 7-Oct-05 3-Oct-05 4-Oct-05 5-Oct-05 1-Oct-05 2-Oct-05 Date

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FY 2006 ST Debt / (Investment)

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	Adj. to	hit '06 ending	target																																	
TOTAL NON- REG				47,036,929	15,708,136	16,291,342	17,089,548	11,697,754	12,280,961	12,864,167	9,427,373	6,735,579	4,993,785	5,576,992	6,160,198	6,743,404	7,326,610	7,821,816	8,405,023	8,988,229	9,571,435	10,154,641	10,737,848	11,321,054	11,904,260	12,487,466	127,470,672	128,053,879	128,637,085	129,220,291	129,803,497	38,511,703	16,569,910	91,928,116	_	
To AEM External	Principal	Oustanding	Runnington	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60.000.000	60 000 000	60,000,000 60,000,000	60,000,000	60,000,000	0	0	0		
AEH / AEC NOTE AF				47 380 000	41, JOU, OU	15,400,000	15,400,000	9 708 000	9 708,000	9.708,000	5,688,000	2.413,000	88.000	88.000	88,000	88 000	88 000)		. 1				. 1	1		54 ADD 000		54,400,000	24,400,000	54,400,000	22 525 000	200,030,27	74 775 000	2001011111	
Subsidiary Interco Acct	END BAL (FXCL	בואם משר (ריאסר	APT &		(343,071)	240,130	823,342	1,400,340	1,303,134	3 156 167	3 739 373	4 322 579	A OD5 785	F 488 997	0,400,332 6 072 108	0,012,100	0,000,404	010,002,1	010,128,1	8,400,020	0,300,223	9,0/1,400													0 11,753,110	1
	L		BALANCE	·	163,233,547	191,427,548	183,283,682	174,445,272	167,255,930	166,089,517	104,923,103	150,301,108,001	eno'ci /'nci	149,064,030	139,858,391	138,691,976	137, 225, 751	136,359,154	119,111,461	118,547,589	102,673,308	90,408,090	86,900,700	85,734,288	84,567,875			189,774,733	`						2 136,506,620	
		Net S. T.	Debt/(Invest)	Outstanding	257,307,406	222,843,819	215,866,365	208,624,368	190,651,438	190,651,438	190,651,438	169,762,525	164,186,967	159,072,206	151,012,374	151,012,374	151,012,374	151,012,374	134,755,094	135,357,634	120,649,766	109,550,960	107,209,983	107,209,983	107,209,983	90,036,787	75,940,509	444,716,077	444,716,077	381,632,129	381,632,129	381,632,129	378,118,848		320,362,852	
-	Consolidated	υτιμτΥ	Investments	Outstanding	35,192,594	9,156,181	4,883,635	6,275,632	4,123,562	4,123,562	4,123,562	4,537,475	2,563,033	3,052,794	9,562,626	9,562,626	9,562,626	9,562,626	10,994,906	13,342,366	14,713,234	17,287,040	18,928,017	18,928,017	18,928,017	25,976,213	32,059,491	36,808,923	36,808,923	102,842,871	102,842,871	102,842,871	33,281,152	27,287,015	25,862,148	
	ő	Short Term		Outstanding	292,500,000	232,000,000	220,750,000	214,900,000	194,775,000	194,775,000	194,775,000	174,300,000	166,750,000	162,125,000	160,575,000	160,575,000	160,575,000	160,575,000	145,750,000	148,700,000	135,363,000	126,838,000	126,138,000	126,138,000	126,138,000	116,013,000	108,000,000	481,525,000	481,525,000	484,475,000	484,475,000	484,475,000	411,400,000	377,300,000		_
			Date	_	31-Oct-05	1-Nov-05	2-Nov-05	3-Nov-05	4-Nov-05	5-Nov-05	6-Nov-05	7-Nov-05	8-Nov-05	9-Nov-05	10-Nov-05	11-Nov-05	12-Nov-05	13-Nov-05	14-Nov-05	15-Nov-05	16-Nov-05	17-Nov-05	18-Nov-05	19-Nov-05	20-Nov-05	21-Nov-05	22-Nov-05	23-Nov-05	24-Nov-05	25-Nov-05	26-Nov-05	27-Nov-05	28-Nov-05	29-Nov-05	30-Nov-05	

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workpapers for KPSC 2-34(c)

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	Adj. to	hit '06 ending	target																															
TOTAL NON- REG				73,230,419	62,292,723	61,545,026	60,797,329	57,870,632	43,744,936	36,997,239	35,274,542	47,096,846	46,349,149	45,601,452	30,843,756	30,221,059	19,493,362	17,245,666	11,589,969	10,842,272	10,094,575	9,346,879	8,614,182	7,866,485	7,128,789	6,381,092	5,633,395	4,885,699	4,138,002	193,390,305	151,922,609	102,344,912	166,122,215	165,374,519
AEM External	Principal	Oustanding		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150,000,000	150,000,000	75,000,000	75,000,000	75,000,000
AEH / AEC NOTE				56,825,000	46,635,000	46,635,000	46,635,000	44,456,000	31,078,000	25,078,000	24,103,000	36,673,000	36,673,000	36,673,000	22,663,000	22,788,000	12,808,000	11,308,000	6,400,000	6,400,000	6,400,000	6,400,000	6,415,000	6,415,000	6,425,000	6,425,000	6,425,000	6,425,000	6,425,000	46,425,000	5,705,000	31,875,000	96,400,000	96,400,000
Subsidiary Interco Acct	END BAL (EXCL	APT &	AEH/AEC NOTE	16,405,419	15,657,723	14,910,026	14,162,329	13,414,632	12,666,936	11,919,239	11,171,542	10,423,846	9,676,149	8,928,452	8,180,756	7,433,059	6,685,362	5,937,666	5,189,969	4,442,272	3,694,575	2,946,879	2,199,182	1,451,485	703,789	(43,908)	(791,605)	(1,539,301)	(2,286,998)	(3,034,695)	(3,782,391)	(4,530,088)	(5,277,785)	(6,025,481)
UTILITY BAL	DAILY	BALANCE		174,992,523	177,608,446	179,103,839	180,599,233	165,235,262	168,273,436	162,440,020	162,151,781	160,167,845	161,663,238	163,158,632	169,177,037	152,826,302	158,736,348	175,670,218	166,670,077	168,165,470	169,660,864	140,587,718	125,304,384	125,846,811	271,395,544	242,594,261	244,089,655	245,585,048	247,080,441	159,512,718	221,830,573	294,175,322	126,784,348	128,279,742
	Net S. T.	Debt/(Invest)	Outstanding	321,453,361	302,193,891	302,193,891	302,193,891	280,976,527	255,763,308	236,434,498	232,700,866	254,361,536	254,361,536	254,361,536	230,864,548	213,268,420	197,723,072	210,161,549	189,850,015	189,850,015	189,850,015	159,281,476	142,532,749	141,579,782	285,653,122	255,356,445	255,356,445	255,356,445	255,356,445	546,293,328	525,675,790	498,865,146	459,028,779	459,028,779
Consolidated	UTILITY	Investments	Outstanding	9,896,639	8,656,109	8,656,109	8,656,109	16,223,473	6,111,692	6,165,502	4,899,134	11,188,464	11,188,464	11,188,464	5,410,452	11,231,580	4,601,928	3,713,451	4,774,985	4,774,985	4,774,985	12,343,524	16,792,251	19,370,218	74,196,878	88,093,555	88,093,555	88,093,555	88,093,555	56,306,672	49,674,210	7,384,854	15,421,221	15,421,221
0	Short Term	Debt	Outstanding	331,350,000	310,850,000	310,850,000	310,850,000	297,200,000	261,875,000	242,600,000	237,600,000	265,550,000	265,550,000	265,550,000	236,275,000	224,500,000	202,325,000	213,875,000	194,625,000	194,625,000	194,625,000	171,625,000	159,325,000	160,950,000	359,850,000	343,450,000	343,450,000	343,450,000	343,450,000	602,600,000	575,350,000	506,250,000	474,450,000	474,450,000
		Date		1-Dec-05	2-Dec-05	3-Dec-05	4-Dec-05	5-Dec-05	6-Dec-05	7-Dec-05	8-Dec-05	9-Dec-05	10-Dec-05	11-Dec-05	12-Dec-05	13-Dec-05	14-Dec-05	15-Dec-05	16-Dec-05	17-Dec-05	18-Dec-05	19-Dec-05	20-Dec-05	21-Dec-05	22-Dec-05	23-Dec-05	24-Dec-05	25-Dec-05	26-Dec-05	27-Dec-05	28-Dec-05	29-Dec-05	30-Dec-05	31-Dec-05

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workpapers for KPSC 2-34(c)

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	Adj. to	hit '06 ending	target																																			
TOTAL NON- REG		hit		164 040 163	164 505 807		133,150,451	104,122,030	96,117,740	69,683,384	69,249,028	68,814,672	60,195,317	48,360,961	38,711,605	30.277.249	27.177.894	26 743 538	26,309.182	7E 87A 876	20,014,020	23,015,471	13,181,115	2,036,759	8,957,403	8,523,048	8,088,692	7,584,336	7,149,980	181,725,625	140,976,269	91,531,913	91,097,557					
AEM External	Principal	Contractor	Oustanunig		75,000,000	nnn'nnn'e <i>i</i>	44,000,000	16,000,000	8,000,000	0	0	0	0	0	0	C) C) C			с (0	0			0	0	0	0	120,000,000	000,000,000					53 000.00		
AEH / AEC NOTE					96,400,000	96,400,000	96,485,000	96,485,000	96,315,000	78,315,000	78,315,000	78,315,000	70,130,000	58.730.000	40 515 000	49,010,000	41,313,000	38,850,000	38,850,000	38,850,000	38,850,000	37,025,000	27,025,000	16,315,000	23,670,000	23,670,000	23,670,000	23,600,000	23,600,000	78,610,000	78,295,000	69 285 000	69 285 000	09,203,000 69,285,000				
Subsidiary Interco Acct	END BAL (FXC)		APT &	AEH/AEC NULE	(6,459,837)	(6,894,193)	(7,328,549)	(7,762,904)	(8,197,260)	(8,631,616)	(9,065,972)	(9,500.328)	(9,934,683)	(10 369 039)		(10,803,393)	(11,23/,123/)	(11,672,106)	(12,106,462)	(12,540,818)	(12,975,174)	(13,409,529)	(13,843,885)		(14,712,597)									5 (18,167,443) - (18,231,709)			(16,490,510)	
UTILITY BAI	L		BALANCE	- L	129,148,453	130,017,165	140,516,135	145,492,809	132,737,170	144.389.174	145 257 885	146 176 597	100,007,704	F01,125,021	114,228,303	99,256,438	99,239,254	81,609,513	82,478,225	83,346,936	84,215,648	50,988,352	41,186,355	46.099.482	22 916 822	23,785,533	24 654 245	(F 070 787)	(3,323,233)	02,020,120	01,034,003	253,011,412					185,143,406	
		Net S. T.	Debt/(Invest)	Outstanding	459,028,779	459.028.779	406,829,038	354 937 000	324 972 649	283 755 942	200, 200,0 IL	246,001,002	283,735,942	241,318,420	210,950,225	176,679,648	159,793,753	135,965,301	135,965,301	135,965,301	135,965,301	98.219.293	67 548 584	50 173 000	10 034 E20	40,001,029	40,001,029	40,001,029	9,239,303	(19,028,199)	445,045,308	535,570,011	518,798,390	518,798,390	518,798,390	491,551,499	448,802,386	
	Consolidated	UTILITY	Investments	Outstanding	15,421,221	15 471 271	2 720 962		213,000 2 003 351	3,002,331	0,244,030	8,244,058	8,244,058	8,281,572	7,974,775	8,580,352	2,816,247	2,364,699	2,364,699	2.364.699	2 364 699	7 560 707	r, JOO, 1 JI E DOE 416	0,200,410 722,000	000,261	12,298,371	12,298,371	12,298,371	7,790,615	19,028,168	29,004,692	37,604,989	19,901,610	19,901,610	19,901,610	6,473,501	11,472,614	
	ŭ	Short Term	Debt	Outstanding	474 450 000		4/4,430,000	408,000,000	355,450,000	327,975,000	292,000,000	292,000,000	292,000,000	249,600,000	218,925,000	185,260,000	162,610,000	138,330,000	138,330,000	138 330 000		100,000,000	100,780,000	72,755,000	50,905,000	53,130,000	53,130,000	53,130,000	17,030,000	ı	474,050,000	573,175,000	538,700,000		538,700,000			-
L			Date		1 Ion Of	1-1411-00	2-Jan-U6	3-Jan-Uo	4-Jan-06	5-Jan-06	6-Jan-06	7-Jan-06	8-Jan-06	9-Jan-06	10-Jan-06	11-Jan-06	12 Jan-06	13. Ian-06	14-Jan-06	15 100 06	10-Jail-00	16-Jan-Ub	17-Jan-06	18-Jan-06	19-Jan-06	20-Jan-06	21-Jan-06	22-Jan-06	23-Jan-06	24-Jan-06	25-Jan-06	26-Jan-06	27-Jan-06	28-Jan-06	29-Jan-06	30-Jan-06	31-Jan-06	-

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workpapers for KPSC 2-34(c)

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	Adj. to	hit '06 ending	target																																			
TOTAL NON- REG			-		78,940,956	78,792,423	68,923,889	68,942,355	68,960,821	59,022,288	47,080,754	39,122,220	35,140,686	29,159,152	29,177,619	29.196.085	23.204.551	22 477 017	72.923.484	22 050 050	22,303,300 4 345 446	4,245,410	4,203,002	4,282,349	4,300,013	4,474,281	3,962,747	3,996,214	4,014,680	4,033,146	4,051,612	184,070,079	200,238,545	139,098,413	119,828,281	107,723,149	-	
AEM External	Principal	Ouetanding	Guaranua		0	0	0	0	0	0	0	0	0	0	0	c					5 0	0	0	0 0	0	0	0	0	0	0	0	180,000,000	120,000,000				-	
AEH / AEC NOTE					98,413,000	98,246,000	88,359,000	88 359 000	88 359.000	78 402 000	66 442 000	58.465.000	54 465.000	AR 465 000	48 465 000	40,400,000	40,403,000	42,433,000	41,709,000	42,137,000	42,155,000	23,422,000	23,422,000	23,422,000	23,422,000	23,577,000		23,062,000	23,062,000	23,062,000	23.062,000							
Subsidiary Interco Acct	FND BAL (EXCL		APT &	AEH/AEC NOTE	(19,472,044)	(19 453 577)	(10,435,111)	(19, 430, 11) (40, 446 646)	(19,410,049)	(19, 390, 1/ 9)	(21 7,870,81)	(042,100,81)	(19,342,700)	(19,225,01)	(19,500,040)	(19,287,381)	(19,268,915)	(19,250,449)	(19,231,983)	(19,213,516)	(19,195,050)	(19,176,584)	(19,158,118)	(19,139,651)	(19,121,185)	(19,102,719)	(19,084,253)	(19,065,786)	_									
UTILITY BAL	L		BALANCE	4	222 164 423	200 624 245	200,024,421.0	194,000,400	194,651,532	194,614,6UU	174,902,651	189,071,255	168,908,455	149,384,939	130,360,971	130,324,039	130,287,106	96,943,898	70,394,585	51,565,333	34,394,067	47,082,326	47,045,393	47,008,461	46,971,528	18,554,292	(2,235,355)	(33,339,078)						-			88,068,751	
	F OF M	Net S. I.	Debt/(Invest)	Outstanding	300 046 336	300,040,330	364,209,000	332,536,242	332,536,242	332,536,242	292,947,226	283,232,760	247,152,893	219,866,312	188,679,276	188,679,276	188,679,276	143,353,000	115,348,620	97,412,301	80,313,966	55,573,158	55,573,158	55,573,158	55,573,158	27 502.854	5,690,140	175 3A6 651)	(10,070,076,076)	(21,320,020)	(070°276'77)	(020,626,72)	•				303,515,050	
bode to the state	Consolidateu	UTILITY	Investments	Outstanding		8,503,004	5,490,940	9,038,758	9,038,758	9,038,758	9,677,774	2,492,240	2,147,107	4,733,688	2,220,724	2,220,724	2,220,724	441,000	6,801,380	13.612.699	20 186 034	3 876 842	3 876 847	3,826,842	3 876 847	3,020,042 3 607 146	709.860 v	7,100,000	25,340,031	35,250,026	35,250,026	35,250,026	138,269,406	72,392,352	29,636,251	25,947,432	33,734,950	
		Short Term	Debt	Outstanding	Outstanting	388,550,000	369,700,000	341,575,000	341,575,000	341,575,000	302,625,000	285,725,000	249,300,000	224,600,000	190,900,000	190,900,000	190,900,000	143.794.000	122.150,000	111 025 000			59,400,000 50,400,000	59,400,000 50,400,000	39,400,000 F0,400,000	59,400,000	31,100,000	10,400,000	1	7,325,000	7,325,000	7,325,000	550,450,000	466,900,000	385,100,000	356,300,000	337,250,000	-
L			Date	222		1-Feb-06	2-Feb-06	3-Feb-06	4-Feb-06	5-Feb-06	6-Feb-06	7-Feb-06	8-Feb-06	9-Feb-06	10-Feb-06	11-Feb-06	12-Feb-06	13_Eah-06	14-Feh-06		00-1-1-01	16-Feb-Ub	1/-rep-up	18-Feb-06	19-Feb-Ub	20-Feb-06	21-Feb-06	22-Feb-Ub	23-Feb-06	24-Feb-06	25-Feb-06	26-Feb-06	27-Feb-06	28-Feb-06	1-Mar-06	2-Mar-06	3-Mar-06	-

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FY 2006 ST Debt / (Investment)

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	Adj. to	hit '06 ending	target																					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			1		~~~~	~~	0	8	5	2	6	-	
TOTAL NON- REG				108,628,017	109,532,886	76,537,754	66,442,622	67,758,490	57,443,358	54,373,226	55,278,095	56,182,963	49,087,831	51,990,699	49,385,567	48,334,435	17,950,303	18,855,172	19.760.040	22 720.908	19,621,776	14 576 644	7 431 512	2 226 38	10,000,1	0 446 147	9, 140, 11					74,182,458	74,119,165				
AEM External	Principal	Oustanding		25,000,000	25,000,000	0	0	0	0	0	0	0	0	0	0	0	0	0										90,000,000	45,000,000	45,000,000	0	0	0				
AEH / AEC NOTE /				982.000	98,982,000	90.082.000	79 082 000	79,493,000	68 273 000	64.298,000	64.298.000	64.298,000	56,298,000	58 296.000	54 786 000	52 830 000	74 541 000	141,000	21,341,000	21,541,000	23,597,000 10,752,000	000'586'81	13,593,000	5,593,000	4,593,000	4,593,000	4,593,000	4,601,000	15,378,000	4,210,000	32,210,000	65.105.000	65 105 000	65 105,000			
Subsidiary Interco Acct	END BAL (EXCL	APT &	AEH/AEC NOTE	115 252 0831	(000,000,01)	(14,440,111)	(10,044,440)	(12,039,310)	(11, 17, 17, 17)	(0,023,042) (0,024,774)	(9.019.905)	(8 115 037)	(7 210 169)	(1, 2, 10, 100)	(100,000,30)	(5,400,433)	(4,495,505)	(3,590,697)	(2,685,828)	(1,780,960)	(876,092)	28,776		1,838,512) 2,743,381		4,553,117	5,457,985	6,362,853							3 8,881,519	30 30 0
	L		BALAIVUE	·	610,955,568	84,449,279	113,686,891	110,820,962	18,040,434	94,227,303 75.053.605	74,744,050	14,241,333	72 564 320	062,100,70	34,620,589	13,705,938	2,466,753	48,965,465	47,155,729	45,345,993	24,711,786	10,990,304	585,114	204,391	(20,489,069)		() (24,108,542)									2 118,276,933	
	H C	Net o. I.	Debt/(Invest)	Uutstallulliy	303,515,050	303,515,050	266,762,398	243,706,206	214,163,414	209,114,019	184,798,148	184,798,148	184,798,148	155,736,891	138,601,987	112,477,072	99,135,624	84,866,072	84,866,072	84,866,072	70,153,602	50,233,856	29,638,403	15,067,416	(5.816,308)	(5,816,308)	(5.816.308)	373,408,536	000 276 706					246,996,541	246,996,541	226,840,092	
-	Consolidated	UTILITY	Investments	Outstanding	33,734,950	33,734,950	8,462,602	1,543,794	5,786,586	4,585,981	5,501,852	5,501,852	5,501,852	1,663,109	3,648,013	3,422,928	2,464,376	4,133,928	4,133,928	4,133,928	3,446,398	6,266,144	5,286,597	2,832,584	18 966 308	18,966,308	18 966 308	34 801 464		9,756,010	12,354,562	9,707,121	15,478,459	15,478,459	15,478,459	6,559,908	
		Short Term	Debt	Outstanding	337,250,000	337,250,000	275,225,000	245,250,000	219,950,000	213,700,000	190,300,000	190,300,000	190,300,000	157,400,000	142,250,000	115,900,000	101,600,000	89,000,000	89,000,000	89,000,000	73.600.000	56 500 000	34.925.000		11,300,000	13,150,000	10,130,000	13, 130,000	355,300,000	304,000,000	288,950,000	277,600,000	262,475,000	262,475,000	262,475,000	233,400,000	
			Date		4-Mar-06	5-Mar-06	6-Mar-06	7-Mar-06	8-Mar-06	9-Mar-06	10-Mar-06	11-Mar-06	12-Mar-06	13-Mar-06	14-Mar-06	15-Mar-06	16-Mar-06	17-Mar-06	18-Mar-06	10 Mar-06	20-Mar-06	24 Mar 06		00-1911-77	23-Iviar-Uo	24-Mar-Ub		26-Mar-U6	27-Mar-06	28-Mar-06	29-Mar-06	30-Mar-06	31-Mar-06	1-Apr-06	2-Apr-06	3-Apr-06	-

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FY 2006 ST Debt / (Investment)

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	Adj. to	hit '06 ending	target																																	
TOTAL NON- REG				45,554,286	44,469,993	40,406,701	38,302,408	38,239,115	38,175,822	38,112,529	30,674,236	28,610,943	36,047,651	35,984,358	35,921,065	35,857,772	32,186,479	29,443,186	32,379,893	29,231,601	29,168,308	29,105,015	29,041,722	24,393,429	122,330,136	97,066,843	87,003,551	113,315,258	113,251,965	113,188,672	99,131,913	84,099,154	78,210,396	74,459,637	-	
T AEM External	Principal	Oustanding		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100,000,000	50,000,000	25,000,000	13,000,000	13,000,000	13,000,000	0	0	0	0		
AEH / AEC NOTE AI				36.730,000	35,709,000	31.709.000	29,668,000	29.668,000	29,668,000	29,668,000	22,293,000	20,293,000	27.793,000	27.793.000	27,793,000	27 793 000	24 185 000	21 505 000	24 505 000	21 420.000	21.420.000	21 420,000	21 420,000	16.835.000	14.835.000	39.635,000	54,635,000	93,010,000	93.010.000	93.010.000	92.316.000	77.646.000	72,120,000	68.732.000		
Subsidiary Interco Acct	END BAL (FXCL		AFT & L	8 874 786	8 760 003	8 697 701	8 634 408	8 571 115	8 507 822	8,444,529	8 381 236	8 317 943	8 254 651	8 101 358	0, 131,333 8 138 065	0,120,000	0,004,170	8,001,479 7 020 186	7 074 003	7 811 601						7 431 843										L (
UTILITY BAI			BALANCE A		106,040,011	96,219,372	83,894,200 71 717 456	71 260 042	74,309,042	14,493,020	40,441,110	40,433,201 20 703 556	30,1 U3,330	19,210,010	4,940,200	000/7/0'9	5,199,452	21,414,437	6,791,742	(12,379,510)	(11,537,542)	(20,254,868)	(20,128,282)	(769,100,02)	(28,483,200)										5 30,930,023	
		Net S. I.	Debt/(Invest)	Outstanding	206,149,504	185,159,359	164,707,667	150,847,272	150,847,272	150,847,272	124,666,174	107,803,560	95,925,442	91,313,817	76,914,996	76,914,996	76,914,996	85,787,395	65,678,114	52,380,277	46,925,559	38,081,747	38,081,747	38,081,747	20,303,572	247,161,650	256,715,198	256,339,816	240,662,405	240,662,405	240,662,405	226,045,312	208,484,853	191,305,588	179,855,896	
-	Consolidated	υτιγ	Investments	Outstanding	2,800,496	3,990,641	6,992,333	1,277,728	1,277,728	1,277,728	7,408,826	3,221,320	2,324,558	2,411,183	4,935,004	4,935,004	4,935,004	2,987,605	4,321,886	6,494,723	5,399,441	3,343,253	3,343,253	3,343,253	4,771,428	29,563,350	5,134,802	8,585,184	11,212,595	11,212,595	11,212,595	8,554,688	3,265,147	1,669,412	2,844,104	
	ပိ	Short Term		Outstanding (208,950,000	189,150,000	171,700,000	152,125,000	152,125,000	152,125,000	132,075,000	111,025,000	98,250,000	93,725,000	81,850,000	81,850,000	81,850,000	88,775,000	70,000,000	58,875,000	52,325,000	41,425,000	41,425,000	41,425,000	25,075,000	276,725,000	261,850,000	264,925,000	251,875,000	251,875,000	251,875,000	234,600,000	211,750,000	192,975,000	182,700,000	
L			Date		4-Apr-06	5-Apr-06	6-Apr-06	7-Apr-06	8-Apr-06	9-Apr-06	10-Apr-06	11-Apr-06	12-Apr-06	13-Apr-06	14-Apr-06	15-Apr-06	16-Apr-06	17-Apr-06	18-Apr-06	19-Apr-06	20-Apr-06	21-Apr-06	22-Apr-06	23-Apr-06	24-Apr-06	25-Apr-06	26-Apr-06	27-Apr-06	28-Apr-06	29-Apr-06	30-Apr-06	1-May-06	2-May-06	3-May-06	4-May-06	-

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workpapers for KPSC 2-34(c)

	Adj. to	hit '06 ending	target																															
TOTAL NON- REG		, in		72,096,878	71,734,119	71,371,360	63,667,601	59,019,843	55,710,084	59,593,325	55,730,566	55,367,807	55,005,049	51,802,290	48,394,531	41,531,772	34,326,513	32,465,754	32,102,996	31,740,237	26,376,978	13,164,219	6,801,460	76,438,702	38,049,443	37,686,684	37,323,925	36,961,166	31,295,908	74,263,149	64,433,153	59,818,157	59,888,160	59,958,164
AEM External	Principal	Oustanding		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70,000,000	35,000,000	35,000,000	35,000,000	35,000,000	35,000,000	0	0	0	0	0
AEH / AEC NOTE				66,732,000	66,732,000	66,732,000	59,391,000	55,106,000	52,159,000	56,405,000	52,905,000	52,905,000	52,905,000	50,065,000	47,020,000	40,520,000	33,677,500	32,179,500	32,179,500	32,179,500	27,179,000	14,329,000	8,329,000	8,329,000	5,302,500	5,302,500	5,302,500	5,302,500	1	78,330,000	68,430,000	63,745,000	63,745,000	63,745,000
Subsidiary Interco Acct	END BAL (EXCL	APT &	AEH/AEC NOTE	5,364,878	5,002,119	4,639,360	4,276,601	3,913,843	3,551,084	3,188,325	2,825,566	2,462,807	2,100,049	1,737,290	1,374,531	1,011,772	649,013	286,254	(76,504)	(439,263)	(802,022)	(1,164,781)	(1,527,540)	(1,890,298)	(2,253,057)	(2,615,816)	(2,978,575)	(3,341,334)	(3,704,092)	(4,066,851)	(3,996,847)	(3,926,843)	(3,856,840)	(3,786,836)
UTILITY Bal		BALANCE		40,946,717	41,672,234	42,397,752	38,602,148	32,584,772	28,755,967	26,684,471	25,946,878	26,672,396	27,397,913	45,147,257	40,996,528	32,871,697	39,480,598	32,780,911	33,506,428	34,231,946	41,802,043	51,499,016	52,536,631	77,948,905	145,816,825	146,542,343	147,267,860	147,993,378	162,315,545	66,677,008	77,695,688	75,156,397	75,016,390	74,876,382
	Net S. T.	Debt/(Invest)	Outstanding	185,140,472	185,140,472	185,140,472	165,937,351	150,624,458	140,176,135	145,871,121	137,408,010	137,408,010	137,408,010	148,751,837	137,785,590	115,935,242	108,133,625	97,712,420	97,712,420	97,712,420	94,555,999	77,827,454	66,139,552	230,826,308	221,915,711	221,915,711	221,915,711	221,915,711	224,907,360	215,203,305	206,561,993	194,792,710	194,792,710	194,792,710
Consolidated	UTILITY	Investments	Outstanding	6,534,528	6,534,528	6,534,528	3,362,649	41,775,542	4,048,865	3,903,879	3,166,990	3,166,990	3,166,990	3,073,163	2,089,410	7,689,758	2,391,375	3,462,580	3,462,580	3,462,580	5,919,001	1,572,546	2,510,448	36,123,692	7,334,289	7,334,289	7,334,289	7,334,289	5,817,640	7,146,695	938,007	2,107,290	2,107,290	2,107,290
	Short Term	Debt	Outstanding	191,675,000	191,675,000	191,675,000	169,300,000	192,400,000	144,225,000	149,775,000	140,575,000	140,575,000	140,575,000	151,825,000	139,875,000	123,625,000	110,525,000	101,175,000	101,175,000	101,175,000	100,475,000	79,400,000	68,650,000	266,950,000	229,250,000	229,250,000	229,250,000	229,250,000	230,725,000	222,350,000	207,500,000	196,900,000	196,900,000	196,900,000
		Date		5-May-06	6-May-06	7-May-06	8-May-06	9-May-06	10-May-06	11-May-06	12-May-06	13-May-06	14-May-06	15-May-06	16-May-06	17-May-06	18-May-06	19-May-06	20-May-06	21-May-06	22-May-06	23-May-06	24-May-06	25-May-06	26-May-06	27-May-06	28-May-06	29-May-06	30-May-06	31-May-06	1-Jun-06	2Jun-06	3-Jun-06	4-Jun-06

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	Adj. to	hit '06 ending	target																				5		0	4	8	2			96	00	25	06	
TOTAL NON- REG				E7 1/0 168	51 219 172	40.452.476	43,432,110	46 605 184	40,000,107	46.745.192	38,745,696	36,727,700	31,791,203	28,347,207	25,697,211	25,767,215	25,837,219	21,397,223	20,970,227	17,950,231	14,498,235	10,058,239	10,128,242	10,198,246	90,268,250	45,325,254	36,895,258	34,465,262	86,440,266	86.782.331					-
AEM External	Principal	Oristanding	0	C	0 0		 	 > C			0 0	0	0	0	0	0	0	0	0	0	0	0	0		80 000 000	30.000.000	30,000,000	30,000,000	0	C					
AEH / AEC NOTE					60,866,000	54,866,000	53,029,000	52,029,000	50,042,000	50,042,000	30,042,000 41 072 500	30 884 500	34 878 000	31 364 000	28 644 000	28 644 000	20,071,000	24,134,000	23, 131, 232	20,001,000	47 025 000	17,020,000	12,010,000	12,010,000					o		_				
Subsidiary Interco Acct	END BAL (EXCL		API &	AEH/AEC NUIE	(3,716,832)	(3,646,828)	(3,576,824)	(3,506,820)	(3,436,816)	(3,366,812)	(3,296,808)	(3,220,004)	(2,120,000)	(3,000,197)	(3,010,790)	(2,940,709)	(20,00,70)	(107,006,701)	(111,001,2)	(2,600,770)	(2,590,769)	(co1,02c,2)					(2,1/0,/40)					5			
UTILITΥ ΒΔΙ	L		BALANCE	- L	65,267,893	67,587,766	63,324,245	65,991,119	83,224,546	83,084,538	82,944,530	90,898,748	85,808,309	83,820,678	85,022,855	80,903,781	80,763,773	80,623,765	77,320,966	76,974,454	72,454,833	80,263,836				`						· · ·	`		0 127,091,820
	+ 0	Net S. I.	Debt/(Invest)	Outstanding	179,566,230	170,026,110	162,228,597	163,035,479	176,434,914	176,434,914	176,434,914	168,390,139	159,263,708	147,403,085	141,717,270	132,298,203	132,298,203	132,298,203	120,115,412	118,914,908	108,355,295	109,260,306	97,333,604	97,333,604						283,079,254					256,463,000
	Consolidated	UTILITY	Investments	Outstanding	5,258,770	2.523.890	1,921,403	2,789,521	8,915,086	8,915,086	8,915,086	1,309,861	3,386,292	3,821,915	3,057,730	1,876,797	1,876,797	1,876,797	1,409,588	1,135,092	2,719,705	4,714,695	9,216,396	9,216,396	9,216,396	38,744,075	6,448,984	1,710,306	3,267,160	14,470,746	44,000	44,000	267,000	267,000	362,000
		Short Term	Debt	Outstanding	184 825.000	172 550 000	164 150,000	165 825 000	185.350.000	185,350,000	185,350,000	169,700,000	162,650,000	151,225,000	144,775,000	134,175,000	134,175,000	134,175,000	121,525,000	120,050,000	111,075,000	113,975,000	106,550,000	106,550,000	106,550,000	348,650,000	294,575,000	291,825,000	301,450,000			297,550,000	271,825,000	271,825,000	256,825,000
			Date		E hun-Of	o-Jun-C			o-Jun-0	10-Jun-06	11-Jun-06	12-Jun-06	13-Jun-06	14-Jun-06	15-Jun-06	16-Jun-06	17-Jun-06	18-Jun-06	19-Jun-06	20-Jun-06	21-Jun-06	22-Jun-06	23-Jun-06	24-Jun-06	25-Jun-06	26-Jun-06	27-Jun-06	28-Jun-06	29-Jun-06	30-Jun-06	1-Jul-06	2-Jul-06	3-Jul-06	4-Jul-06	5-Jul-06

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FY 2006 ST Debt / (Investment)

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	Adj. to	hit '06 ending	target																											(2 985 485)					2 (z,800,400)	
TOTAL NON- REG				62,832,655	59,174,719	59,516,784	59,858,849	58,748,914	49,859,979	48,202,043	46,543,108	45,630,173	45,972,238	46,314,303	44,710,367	43,557,432	35,055,497	35 397 562	28,247,627	28,589,691	28.931.756	26 275 821		-			******								0 21,916,685	
AEM External	Principal	Oustanding))	0	0	0	0	0	0	0	0	0	0	0	0	0	0	, c						20,000,000												
AEH / AEC NOTE				62 747 000	58 747 000	58 747 000	58 747 000	50, 11, 200 57 295 000	48.064.000	46,004,000	44 063.000	42 808 000	42 808.000	42 808 000	40.862.000	30 367 000	29,300,000	20,323,000	30,523,000	23,031,000	23,031,000	23,031,000	20,033,000	8,036,000	8,030,000	8,038,000	0,030,000	0,000,000	8,036,000	42,376,000	42,376,000	42,376,000	26,076,000	26,076,000	18,911,000	
Subsidiary Interco Acct	END BAL (EXCL		AP1 & AFH/AFC NOTE		00,000	61 1,124 760 784	1 111 04	1,111,043	1,400,914	1,795,979	2,130,043	2,400,100 2 B22 173	2 164 738																		7 7,510,957	4 6,384,639	0 5,258,321	97 4,132,003	33 3,005,685	-
UTILITY BAI		האורו	BALANCE		128,872,691	128,438,561	127,754,431	127,070,302	122,864,172	125,680,043	516,767,121 197 101 001	120,524,704	114,/29,034	114,040,024	113,361,395	122,385,205	117,272,136	120,948,006	126,955,876	132,198,747	131,514,617	130,830,488	134,070,358	241,372,228	259,087,099	254,665,969	253,987,840	253,303,710	252,619,580	196,164,451	200,339,287			``		_
	H 0 :	Net S. I.	Debt/(Invest)	Outstanding	254,538,000	246,788,000	246,788,000	246,788,000	240,362,000	225,400,000	218,162,000	213,611,000	205,990,000	205,990,000	205,990,000	211,806,000	204,387,000	191,059,000	197,751,000	188,694,000	188,694,000	188,694,000	186,622,000	360,614,000	329,013,000	325,276,000	325,282,000	325,282,000	325,282,000	298,191,000	250,226,244	245.053.762	220 522 281	222,022,022	220 189.318	
-	Consolidated	UTILITY	Investments	Outstanding	412,000	62,000	62,000	62,000	138,000	175,000	213,000	239,000	60,000	60,000	60,000	94,000	313,000	366,000	399,000	31,000	31,000	31,000	53,000	86,000	112,000	149,000	168,000	168,000	168,000	34.000		ı		I		
	ŭ	Short Term	Debt	Outstanding	254,950,000	246,850,000	246,850,000	246,850,000	240,500,000	225,575,000	218,375,000	213,850,000	206,050,000	206,050,000	206,050,000	211,900,000	204,700,000	191.425.000	198,150,000	188,725,000	188,725,000	188.725,000	186.675.000	360,700,000	329,125,000	325,425,000	325,450,000	325.450.000	325,450,000	208 225 000	200,222,022	230,220,244	243,033,792			016,881,022
L			Date		6-Jul-06	7-Jul-06	8-Jul-06	9-Jul-06	10-Jul-06	11-Jul-06	12-Jul-06	13-Jul-06	14-Jul-06	15-Jul-06	16-Jul-06	17-Jul-06	18-Jul-06	19-Jul-06	20-hil-06	21Iul-06	22-Jul-06	23-Jul-06	24-Inf-06	25-Jul-06	26-Jul-06	27-Jul-06	28-Jul-06	29- Ini-06	30- hil-06		00-INC-L2	an-gn-1	2-Aug-06	3-Aug-06	4-Aug-06	2-Aug-06

FY 2006 ST Debt / (Investment)

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	Adj. to	hit '06 ending	target	(2,985,485)	(2,985,485)	(2,985,485)	(2.985,485)	(2,985.485)	(2000)(2)	(2,300,100) (7 985 485)	(201-1000 (2)	(2,300,400)	(2,985,485)	(2,985,485)	(2,985,485)	(2,985,485)	(2,985,485)	(2,985,485)	(2,985,485)	(2 985 485)	(7 085 485)	201-200 (2)	(2,300,400)	(2,985,485)	(2,985,485)	(2,985,485)	(2,985,485)	(2,985,485)	(2,985,485)	(2,985,485)	(2,985,485)	(2,985,485)						
TOTAL NON- REG				18.595.367	13,469,049	12 342 731	11 216 413	0 520 005	1000 000 0	(1,119,223)	(4,640,041)	(6,004,859)	(7,131,177)	(8,257,495)	(9,383,813)	(10,510,131)	(11,636,449)	(12 762 767)	(13,889.085)	(10,000,000)	(10,010,010)	(16,141,721)	(17,268,039)	(18,394,356)	92,629,326	53,353,008	52,226,690	51,100,372	50,024,054	48,897,736	21,971,418	12 733 133				14,110,219		
AEM External	Principal	Oustanding		С) C	 > C				0	0	0	0	0	0	0	0					0	0	0	45,000,000	20,000,000	20,000,000	20,000,000	20,000,000	20 000 000	0						0	
AEH / AEC NOTE					10,/10,000	12,710,000	12,716,000	12,716,000	11,264,000	2,033,000	33,000	1	I	1	I	1		1	I	1	I	ı	1	ı	67,150,000	54,000,000) 38,350,000	
Subsidiary Interco Acct	END BAL (EXCL				1,879,367	753,049	(373,269)	(1,499,587)	(2,625,905)	(3,752,223)	(4,878,541)	(6,004,859)	(7.131.177)	(8 257 495)	(0,201,100)	(9,202,012)	(101,010,01)	(11,030,449)	(12,762,767)	(13,889,085)	(15,015,403)	(16,141,721)	(17,268,039)	(18,394,356)	(19 520.674)	(201646 992)	(21 773 310)	(21,110,010) (77,000,678)	(22,039,020) /74,075,046)						5 (24,293,436)		9 (22,970,005)	
	L		BALANCE	· L	200,206,469	202,140,306	197,411,142	192,888,979	188,756,815	184,935,651	180,045,488	181 979 324	183 013 161	100,919,101	188,140,337	182,174,834	177,253,670	179,735,506	179,837,343	181,771,179	183,705,016	184,599,852	182,297,689	179 049 525	0E 076 361	30,0/0,00							172,677,362	2 170,166,343	9 167,505,325		4 162,183,289	-
		Net S. I.	Debt/(Invest)	Outstanding	218,801,836	215,609,355	209,753,873	204,105,392	197.394,910	183,216,429	175 199 947	17E 07A AG5	100,415,011	1/0,/81,904	179,889,502	172,791,021	166,743,539	168,099,058	167,074,576	167,882,095	168,689,613	168 458 132	165 029 650	100,029,030 160,666,168		180, CU1, /181	167,872,205	168,679,724	169,487,242	178,807,761	170,918,279	186,634,798	185,410,495	183,561,192	181,561,889	179,562,586	177,563,284	
	Consolidated	UTILITY	Investments	Outstanding	1	ı	ı	1	ı	,	,	I	\$	ł	ı	I	I	ı	I	ı	1	1	I	1	I	ı	I	I	I	1	ı	ı	1			;	-	
		Short Term	Debt	Outstanding	218,801,836	215,609.355	209 753 873	200,105,202	107 201 010	016,334,310	100,2,01 2,001	1/5,133,341	175,974,465	176,781,984	179,889,502	172,791,021	166,743,539	168.099.058	167.074.576	167 882 005	101,002,000	100,009,010	168,458,132	165,029,650	160,655,168	187,705,687		168,679,724	169,487,242	178,807,761								_
L			Date		6-Aug-06		on-fine-	po-Bny-o	an-6nv-6	10-Aug-00	an-bna-11	12-Aug-06	13-Aug-06	14-Aug-06	15-Aug-06	16-Aug-06	17-Aug-06	18-Aug-06	10-010-0F	90 - 1 V 00	on-fink-nz	21-Aug-06	22-Aug-06	23-Aug-06	24-Aug-06	25-Aug-06	26-Aug-06	27-Aug-06	28-Aug-06	29-Aug-06	30-Aug-06	31_Din_D6	1 Con 06			3-Sep-Ub	4-Sep-Uo	on-dac-c

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FY 2006 ST Debt / (Investment)

(2,985,485) (2,985,485) (2,985,485)(2,985,485) (2,985,485) (2,985,485) 182,114,575 (2,985,485) 2,985,485) (2,985,485) 2,985,485) 2,985,485) (2,985,485) (2,985,485) (2,985,485) (2,985,485) (2,985,485) (2,985,485) (2,985,485) (2,985,485)(2,985,485) (2,985,485)(2,985,485)2,985,485) 2,985,485) 2,985,485) hit '06 ending Adj. to target 62,638,825) (2,822,705) (2,376,282) (5,664,566)(4,882,851) (4,146,136) (3,484,420) (2,160,989) 10,400,726 10,385,872 11,047,588 56,709,303 10,821,018 65,132,734 66,819,449 74,631,165 02,892,880 42,276,768 9,062,441 9,724,157 11,703,426 2,688,572 3,350,287 12,003 16,041,710 8,365,141 2,026,857 TOTAL NON-REG (58,000,000) 9,843,836 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 45,000,000 45,000,000 15,000,000 45,000,000 58,000,000 0 45,000,000 AEM External Oustanding Principal 35,984,532 0 21,445,000 74,895,000 23,445,000 21,445,000 21,445,000 21,445,000 21,445,000 28,545,000 29,570,000 36,720,000 51,320,000 18,350,000 5,300,000 11,350,000 1,470,000 11,545,000 1,545,000 1,545,000 1,545,000 22,350,000 22,350,000 33,350,000 29,350,000 22,350,000 38,350,000 AEH / AEC NOTE (7,088,835) (3,551,599) 11,720,843) 11,059,128) 10,397,412) (9,073,982) (8,412,266) (7,750,551) (6, 427, 120)(4, 638, 825)13,044,274) 12,382,559) (9,735,697) 14,367,705) (13,705,989) **AEH/AEC NOTE** (22,308,290) (21,646,574) (20,984,859) (20,323,143) (19,661,428) 18,999,713) (18,337,997) 17,676,282) (17,014,566) 16,352,851) (15,691,136) 15,029,420) END BAL (EXCL Subsidiary Interco Acct APT & (119,425,943) 111,550,004 183,735,833 146,357,125 68,654,106 66,085,088 63,424,070 60,763,052 56,197,034 139,266,015 27,696,979 22,208,942 19,547,924 14,728,906 164,514,888 167,267,869 161,704,851 168,763,216 166,102,198 63,441,179 157,499,161 51,473,143 33,405,997 24,869,961 155,742,271 150,182,252 146,198,234 BALANCE UTILITY DAILY BAL (141,810,713) 236,336,016 234,087,319 142,468,438 137,421,136 35,255,833 133,256,530 225,549,924 229,647,622 286,628,713 193,144,167 154,563,375 170,790,072 168,790,770 140,692,558 163,771,255 161,938,953 159,939,650 157,940,347 154,036,044 149,666,741 176,257,227 161,885,678 157,511,164 166,791,467 149,096,861 171,783,981 Debt/(Invest) Outstanding Net S. T. (57,000) Consolidated 11,022,492 Investments Outstanding UTILITY (141,753,713) 204,166,660 234,087,319 37,421,136 135,255,833 33,256,530 229,647,622 236,336,016 286,628,713 140,692,558 163,771,255 159,939,650 57,940,347 154,036,044 49,666,741 42,468,438 176,257,227 225,549,924 54,563,375 61,938,953 161,885,678 70,790,072 168,790,770 66,791,467 57,511,164 149,096,861 171,783,981 Outstanding Short Term Debt CASH FI 24-Sep-06 25-Sep-06 27-Sep-06 29-Sep-06 30-Sep-06 AVG BAI 19-Sep-06 22-Sep-06 26-Sep-06 28-Sep-06 16-Sep-06 17-Sep-06 18-Sep-06 20-Sep-06 21-Sep-06 23-Sep-06 10-Sep-06 12-Sep-06 13-Sep-06 14-Sep-06 15-Sep-06 11-Sep-06 7-Sep-06 8-Sep-06 9-Sep-06 6-Sep-06 Date

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	Short Term	ΠΤΙΓΙΤΥ	Net S. T.
Date	Debt	Investments	Debt/(Invest)
	Outstanding	Outstanding	Outstanding
CASH FLOW:	W:	2005	2006
NET INCOME	OME	135,784,732	147,820,143
+ DEPRE	+ DEPRECIATION	178,796,000	194,704,655
+ DEFEF	+ DEFERRED TAXES	12,669,000	50,805,184
+ CHANC	+ CHANGE IN BAL SHEE	59,694,000	(60,000,000)
- CAPEX		(333,183,000) (410,500,002)	(410,500,002)
CASH FI	CASH FLOW BEF DIV	53,760,732	(77,170,020)
+ EOUITY	Å	37,183,000	42,000,000
- DIVIDENDS	SUDS	(98,978,000)	(98,978,000) (103,320,000)
CASH AV	CASH AVAIL. FOR DEBT	(8,034,268)	(138,490,020)
LTD REPAYMENT	AYMENT	(5,907,648)	(3,263,694)
CASH AV	CASH AVAIL. AFTER REC		(13,941,916) (141,753,713)

144,875,000	141,753,713	286,628,713	
beginning STD	Incr / (Decr)	Ending STD	

	_	-				
		Adj. to	Dupta 30. 414		target	
TOTAL NON-	REG					
	AEM External	Principal	-	Oustanding		
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Subsidian	Interco Acct			APT &	AEH/AEC NOTE	
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102,119,004
183,295,033
170,898,660
176,224,070
175,282,271
174,340,473
204,964,544
197.425.201
194,654,192
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achieve CASH ZOOB Daily 1 FLOW target STD projection 334, (14,713,861) (250,000) 334, (13,713,861) 334, (13,713,861) (256,000) 334, (13,713,861) (256,000) 334, (13,713,861) (256,000) 334, (13,713,861) (256,000) 334, (13,713,861) (256,000) 334, (13,713,861) (256,000) 334, (13,713,861) (256,000) 334, (13,728,136) (256,000) 204			Consolidated		UTILITY BAL	F	AEH / AEC NOIE	Principal			=	
Math Imanife Database Continues Contotin Contotin Contotin		Chort Tarm	חדונדץ	Net S. T.	DAILY	END BAL (EAUL		Orietanding			2008 Daily	
Detending Outbanding Controling Controli	Date	Debt	investments	Debt/(Invest)	BALANCE	APT &		Rimino			STD projection	
S2307/50 S2007/50 S2007/50 S2007/50 C1044437	2	Outstanding	Outstanding	Outstanding		AEH/AEU NUTE	4 088 000	0	(14,713,861)	(250,000)		334,161,643
2023/2016 2023/2016 <t< td=""><td>11_Nov_06</td><td>232,904,061</td><td>t</td><td>232,904,061</td><td>247,617,922</td><td>(18,601,001)</td><td>4 088 000</td><td>0</td><td>(13,894,259)</td><td>(250,000)</td><td></td><td>333,314,632</td></t<>	11_Nov_06	232,904,061	t	232,904,061	247,617,922	(18,601,001)	4 088 000	0	(13,894,259)	(250,000)		333,314,632
ZUT/04.40 ZUT/04.40 <t< td=""><td>12 Nov-OF</td><td>232.307.250</td><td>ı</td><td>232,307,250</td><td>246,201,509</td><td>(erz'zog'))</td><td>4 088 000</td><td>0</td><td>(13,074,657)</td><td>(250,000)</td><td></td><td>332,400,022</td></t<>	12 Nov-OF	232.307.250	ı	232,307,250	246,201,509	(erz'zog'))	4 088 000	0	(13,074,657)	(250,000)		332,400,022
T. M.		231.710.440	ł	231,710,440	244,785,097	(102,007)		0	(12,343,055)	(250,000)		315,451,931
Stratistion 21,4,20,03 22,4,4,0,03 2,0,0,0,00 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0 2,0,0,0,0,0		214 944 349	1	214,944,349	227,287,404	(16,345,030)		0	(11,523,453)	(250,000)		315,207,001
Non-solution 100.06000 200000000 200000000 200000000 2000000000000000000000000000000000000	00-VUN-41	214 950 079	,	214,950,079	226,473,532	(15,523,453)	4,000,000	G	(10,703,851)	(250,000)		299,652,982
No. No. <td>on-vovi-ct</td> <td>100 645 401</td> <td>•</td> <td>199,645,401</td> <td>210,349,252</td> <td>(14,703,851)</td> <td>4,000,000</td> <td></td> <td>(9.884,249)</td> <td>(250,000)</td> <td></td> <td>287,707,366</td>	on-vovi-ct	100 645 401	•	199,645,401	210,349,252	(14,703,851)	4,000,000		(9.884,249)	(250,000)		287,707,366
No. No. <td>16-Nov-UD</td> <td>194,040,784</td> <td>1</td> <td>187,949,784</td> <td>197,834,033</td> <td>(13,884,249)</td> <td>4,000,000</td> <td></td> <td>(9.064.647)</td> <td>(250,000)</td> <td></td> <td>284,519,578</td>	16-Nov-UD	194,040,784	1	187,949,784	197,834,033	(13,884,249)	4,000,000		(9.064.647)	(250,000)		284,519,578
No. No. <td>17-Nov-06</td> <td>181,949,104</td> <td></td> <td>185,011,996</td> <td>194,076,644</td> <td>(13,064,647)</td> <td>4,000,000</td> <td></td> <td>(8 245 045)</td> <td>(250,000)</td> <td></td> <td>283,672,767</td>	17-Nov-06	181,949,104		185,011,996	194,076,644	(13,064,647)	4,000,000		(8 245 045)	(250,000)		283,672,767
144454 1445445 400000 0 1445443 400000 0 1445443 400000 0 1445443 400000 15784543 265000	18-Nov-06	185,011,996	1	184 415 186	192,660,231	(12,245,045)	4,000,000	5 0	(0,243,070) (7 495 462)			282,825,957
15 15<	19-Nov-06	184,415,180	I	183 818 375	191,243,819	(11,425,443)	4,000,000	0	(044)			264,805,951
15 15<	20-Nov-06	183,818,375	8	166 DAB 360	172.654.211	(10,605,842)	4,000,000	0	(7+0°Cna*a)			249,862,862
15:13:52:11 5:37:23:29 5:36:70:00 5:36:73:24 0:14:70:00 15:36:73:24 0:14:70:00 15:36:73:24 0:14:70:00 15:36:73:24 15:30:70:00 15:36:73:24 15:30:70:00 15:36:73:24 15:30:70:00 15:36:73:26 15:30:70:00 15:36:73:26 15:30:70:00 15:36:73:26 15:30:70:00 15:36:73:76 15:30:70:00 15:36:73:76 15:30:70:00 15:36:73:76 15:30:70:00 15:36:73:76 15:30:70:00 15:36:73:76 15:30:70:00 15:36:73:76 15:30:70:00 15:36:73:76 15:30:70:00 15:30:70:70:00 15:30:70:70:00	21-Nov-06	166,048,369	t	100,070,000	157 141 520	(9,786,240)	4,000,000	0	(5,786,240)			530,391,620
42,124,038 54,20,000 57,70,000 13,22,224 (20,000) 46,000 63,157,258 55,720,000 55,40,000 57,000 13,81,82,186 (260,000) 46 63,157,258 55,720,000 55,70,000 57,70,000 13,81,82,186 (250,000) 46 64,157,757 46,71,739 55,720,000 55,70,000 75,752,756 (250,000) 47 64,152,757 47,751,000 64,46,000 7,70,000 13,81,87,188 (250,000) 47 74,752,100 56,57,700 64,46,000 61,55,710 0 24,66,000 75,54,56 (250,000) 47 74,751,000 57,75,000 0 56,55,000 0 56,55,000 0 56,50,000 75,54,56 (250,000) 46 225,764,710 225,77,750 237,77,500 0 56,55,000 24,56,000 75,54,56 (250,000) 46 225,764,710 225,77,770 267,770 266,5000 26,55,000 26,56,000 26,56,000 26,56,000 26,50,000 26	22-Nov-06	151,355,281		107'000'101	205 700 676	(8,966,638)	58,400,000	87,000,000	136,433,362	(000'002)		529.544.809
(4) (7) <td>23-Nov-06</td> <td>432,134,038</td> <td>1</td> <td>432,134,030</td> <td>200,094,064</td> <td>(8,147,036)</td> <td>58,400,000</td> <td>87,000,000</td> <td>137,252,964</td> <td>(000,062)</td> <td></td> <td>465.614.050</td>	23-Nov-06	432,134,038	1	432,134,030	200,094,064	(8,147,036)	58,400,000	87,000,000	137,252,964	(000,062)		465.614.050
Ser Ser <td>24-Nov-06</td> <td>431,537,228</td> <td>1</td> <td>431,537,228</td> <td>234,204,207</td> <td>(7 327,434)</td> <td>58,400,000</td> <td>87,000,000</td> <td>138,072,566</td> <td>(250,000)</td> <td></td> <td>464 767 240</td>	24-Nov-06	431,537,228	1	431,537,228	234,204,207	(7 327,434)	58,400,000	87,000,000	138,072,566	(250,000)		464 767 240
887/369 26/36/16 26/36/17 26/36/17 89,400.000 87,7000 17,770 26/3000	25-Nov-06	367,856,469	1	367,856,469	223,100,000	(6 507 832)	58,400,000	87,000,000	138,892,168	(250,000)		A63 020 429
366.82.84 27.8417 26.85.00 26.55.300 26.55.300 26.55.300 26.55.300 26.55.300 26.55.300 27.54000 27.54000 27.54000 27.54000 27.545.71 26.5000 27.545.71 26.5000 27.545.71 26.55.000 26.55.300 26.55.300 26.55.300 27.545.71 26.55.000 26.55.300 27.545.71 26.0000 27.545.71 26.0000 27.545.71 26.0000 27.545.71 26.0000 27.545.71 26.0000 27.545.600 26.0000 26.755.600 26.755.600 26.755.600 26.755.600 26.655.600 26.755.600 26.655.600 27.55.655.000 26.555.600 27.55.655.000 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.555.600 26.556.600 26.556.600 26.556.600 26.556.600 26.556.600 26.556.600 26.556.600 26.556.600 26.556.600 26.556.600 26.556.600 26.5	26-Nov-06	367,259,658	,	367,259,658	020 100'077	(5,688,230)	58,400,000	87,000,000	139,711,770			FOA A25 338
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	27-Nov-06	366,662,848	ı	366,662,848	0/0/106,022		26,525,000	0	21,656,372			518 007 664
421,220,03 $421,220,03$ $421,220,03$ $421,220,03$ $421,220,03$ $421,220,03$ $421,220,03$ $421,220,03$ $421,220,03$ $421,220,03$ $56,57,163$ $220,256,03$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,164$ $236,57,500$ 0 $44,51,648$ $236,75,200$ $326,57,500$ 0 $44,51,648$ $236,75,000$ 0 $44,51,648$ $2260,000$ 0 $44,51,648$ $2260,000$ 0 $44,51,648$ $2260,000$ 0 $44,51,648$ $2260,000$ 0 $44,71,318$ $2260,000$ 0 $44,71,318$ $2260,000$ 0 $44,71,218$ $2260,000$ 0 $247,928$ $2260,000$ 0 $247,928$ $2260,000$ 0 $247,928$ $2260,000$ 0 $247,928$ $2260,000$ 0 $247,928$ $2260,000$ 0 $247,928$	28-Nnv-06	427,427,757	١	427,427,757	coc'177'cn4		4.000.000	0	(49,026			100,100,010
316,228,139 $316,228,138$ $206,228,138$ $206,228,138$ $206,228,138$ $206,228,108$ $206,228,108$ $206,250,00$ 0 $66,622,668$ $(220,000)$ $206,250,000$ 0 $45,478,128$ $200,000$ $45,478,128$ $200,000$ $45,456,000$ 0 $11,11,11,11,11,11,11,11,11,11,11,11,11,$	29-Nov-06	421,250,083	1	421,250,083	421,299,109		78,775,000	0	75,545,576			412,100,121
335.551.164 335.551.164 278.161.465 278.164.465 278.240.00 65.479.821 (250.000) 65.479.821 (250.000) 257.746.276 227.329.242 227.745.766 (118.057) 50.555.000 0 45.479.821 (250.000) 277.747.276 227.329.242 227.746 (118.057) 50.555.000 0 45.479.821 (250.000) 277.7471 76 (100.689) 50.655.000 0 45.479.821 (250.000) 277.7471 76 (100.689) 26.655.000 0 40.472.168 (250.000) 279.7461 279.7493 281.48.300 (11.86.57) 28.475 (11.86.57) 28.978.000 0 40.472.168 (250.000) 291.45.960 20.917.901 (11.86.527) 28.405.00 0 40.472.168 (250.000) 28.720.000 291.45.961 20.917.910 (11.86.527) 28.917.910 (11.479.460 (250.000) 28.747.910 (250.000) 28.750.000 28.777.911 (250.000) 28.750.000 28.777.911 (250.000)	20-Nov-06	316.228.139	·	316,228,139	240,682,563		60 825 000	0	56,632,698		_	401,000,154
326,764,210 236,764,210 237,269,421 237,269,421 237,269,421 237,269,421 237,269,421 237,269,421 237,269,421 237,269,421 237,269,421 237,269,421 237,761,76 7,000,569,71 36,55,000 0 44,56,646 7,260,000 44,56,646 7,260,000 24,55,000 26,471,211 (250,000) 26,471,211 (250,000) 26,471,211 (250,000) 26,471,211 220,000 26,471,211 229,076,000 26,471,211 229,076,000 26,471,211 229,076,000 26,471,211 229,070,000 26,471,211 229,070,000 26,471,211 229,070,000 26,471,211 229,070,000 26,471,211 229,070,000 26,471,211 229,070,000 26,471,211 229,070,000 26,471,211 229,010,00 26,471,211 229,010,00 26,471,211 229,010,00 26,471,211 229,010,00 26,471,211 229,010,00 26,411,217 220,000 26,411,217,020 26,411,217,020 26,411,217,020 26,411,217,020 26,411,217,020 26,411,217,020 26,411,217,020 26,411,217,020 26,411,217,020 26,411,217,020	Loc DE	335.551.164	1	335,551,164	278,918,466		50,525,000 50,635,000	0	45,479,821		_	422,111,132
37/046.75 327,046.75 327,529,42 225,529.73 (e,176,00) 0.665,00 0 43,56,000 0 43,57,00 0 43,57,00 0 43,57,00 0 43,57,50 17,719,56 25,0000 0 17,719,56 25,0000 0 43,56,00	2 Dor OF	326.764.210	ı	326,764,210	281,284,389		50,555,000	0	44,516,943			422,804,300
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		327 046 726		327,046,726	282,529,783			C	43,554,066			422,830,824
265,171,374 306,573,334 206,161,205 (8,043,517) 3-4,70,000 26,071,371 (250,000) 3 297,020,680 297,020,680 273,750 0 26,071,371 (250,000) 3 287,020,680 297,020,680 273,076,000 0 19,108,433 (250,000) 3 281,480,261 28,685,863 (19,952,444) 28,103,000 0 17,170,556 (250,000) 3 281,488,281 290,871,467 229,153,983 291,456,493 (19,952,444) 26,653,000 0 17,170,556 (250,000) 3 3 7 3 <td>3-Dec-Ub</td> <td>071,040,120</td> <td>'</td> <td>327,329,242</td> <td></td> <td></td> <td>000'020'00</td> <td></td> <td>40.412.18</td> <td></td> <td></td> <td>403,830,975</td>	3-Dec-Ub	071,040,120	'	327,329,242			000'020'00		40.412.18			403,830,975
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4-Dec-Ub	243,620,120	,	308,573,394			48,450,000		26.071.31		(392,028,272
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5-Dec-06	300,010,000	ı	297,020,690			35,078,000		19,108,43		(378,731,978
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6-Dec-06	nen'nzn' /67		283.974.397			29,078,000					376,005,862
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	7-Dec-06	283,974,397		281,498,281			28,103,000	> c				385,129,049
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	8-Dec-06	281,498,201		290.871.467			40,673,000				. (385,161,564
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9-Dec-06	290,871,467		291.153,985			40,673,000				. 6	385,194,080
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	10-Dec-06	291,103,903		291,436,499			40,673,000				. (0	375,739,608
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11-Dec-06	291,436,499		282,232,026			26,663,000				(0	358,050,995
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	12-Dec-06	nzn'zcz'zgZ		264 793 41							(0	352,518,164
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	13-Dec-06	264,793,414		259.510.58							(0	366,489,157
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	14-Dec-06	259,510,582	•	273 731.57							. (0	351,118,138
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	15-Dec-06	2/3,/31,5/2		258 610.55							. (0	351,150,654
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	16-Dec-06	258,610,557	ŧ	258 893.07							(0	351,183,170
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17-Dec-06	258,893,075	·	250 175 58								320,647,147
228,889,566 222,486,974 10,415,000 0 11,2071,974 10,200,000 212,408,354 224,480,354 224,480,328 (22,486,974) 10,415,000 0 (12,071,974) (250,000) 211,737,904 234,498,351 10,425,000 0 (13,094,851) (250,000) 356,083,759 370,071,488 (24,12,728) 10,425,000 0 (13,987,728) (250,000)	18-Dec-06	259,175,58	•	225 R80 FF								303,915,936
212.408.354 - 212.408.354 - 211.737,904 224.772.755 (23.449.851) 10.415,000 0 (13.987.728) (250.000) 211.737,904 - 356,083.759 370,071,488 (24.412.728) 10.425,000 0 (13.987.728) (250.000)	19-Dec-06	228,889,566		240 ADB 35								302,995,485
211.737,904 - 211,737,904 - 211,737,904 - 211,721,904 - 211,721,904 - 356,083,759 370,071,488 (24,412,728) 10,425,000 0 (13,987,728) (24,412,728) 356,083,759 - 356,083,759 - 356,083,759 - 370,071,488 (24,412,728) 10,425,000 0 (13,987,728) (24,412,728)	20-Dec-06	212,408,354	•	70707.12							100	447,091,34
356,083,759	21-Dec-06	211,737,90	4	12,101,112 .							100	
	22-Dec-06	356,083,75	- 6	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			7					

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Consolidated UTILITY UTILITY Investments UTILITY Investments 001011117 15 31 45 242 237 238 541 531 7790 531 541 232 533 541 7790 533 7,790 5441 7,790 242 242 5,477 7,508 6,477 7,508 0,923 2,482 2,190 0,923 2,410 7,508 6,477 7,508 6,273 7,508 7,508 7,508 7,508 7,508 7,508 7,508 6,477 <		L		Outstanding	341,020,205	342,265,598	343,510,991	344,756,385	256,938,661	319,006,516	391,101,266	223.460.292	224.705,685	225.324,396	225,943,108	236.192.079	240.918,752	227,913,113	239,315,117	239,933,829	240,552,540	215,103,738	208,154,246	192,932,381	192,665,198	174,785,457	175,404,168																				200 700 158
	, to a b - 1 - 1 - 0	Consolidated	Investments	Outstanding	g	250,000,000 236,352,115 	020,004,110 006 604 601		326,917,147	455,136,545	475,521,523	497,823,395	393,744,543	394,027,059	395,119,229	396,211,399	376,018,828	353,218,960	332,516,779	291,392,242	292,484,411	293,576,581	260,416,237	242,540,204	218,576,798	210,783,073	190,711,790	191,803,960	192,896,130	193,988,299	159,159,452	139,580,923	134,007,508	118,403,307	119,495,477	120,587,647	90,157,573	62,982,190	380,137,836	512,069,708	545,400,257	546,492,427	547,584,597	523,434,876	437,737,933	393.948.959	020,040,020

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L		Consolidated		UTILITY BAL	Subsidiary Interco Acct Al	AEH / AEC NOTE	la	TOTAL NON-REG	Adi to		
			F OTTA		END BAL (EXCL		Principal			2008 Daily	
	Short Term	UTILITY .	Net S. 1.	RAI ANCE	APT &		Oustanding		achieve CASH	STD projection	
Date	Debt	Investments	Deputitivest		AEH/AEC NOTE				٦		434.870.600
	Outstanding	Outstanding		282 614 408	(20,360,389)	92,359,000	0	71,998,611	(000,052) (000,052)		433,680,677
3-Feb-07	354,613,019	1	354,613,019	282 327 475	(21.013,380)	92,359,000	0	71,345,620	(000 020)		432,490,754
4-Feb-07	353,673,095	1	303,013,000	202,040 543	(21,666.371)	92,359,000	0	70,692,629	(nnn'nez)		401 668.814
5-Feb-07	352,733,172	ı	352,733,172	202,040,343	(22 319.362)	82,402,000	0	60,082,638	(250,000)		402 724 425
6-Feb-07	322,161,233	1	322,161,233	202,010,002	(22 972 353)	70,442,000	0	47,469,647	(250,000)		373 431 634
7-Feb-07	323,466,843	ı	323,466,843	2/5,99/,190	(23 625 344)	62,465,000	0	38,839,656	(250,000)		348 055 129
8-Feb-07	294,424,053	I	294,424,053	255,584,397	(20,020,02) (74 778 335)	58,465,000	0	34,186,665	(250,000)		340,333,123 333 578 170
9-Feb-07	270,197,548	ı	270,197,548	236,010,883	(24,210,000)	52,465.000	0	27,533,674	(250,000)		011,010,026
10.Eeh-07	244,070,588	1	244,070,588	216,536,914	(24,331,320) 775 584 317)	52 465.000	0	26,880,683	(250,000)		321,300,241
11_Eah-07	243,130,665	I	243,130,665	216,249,982	(110,700,02)	52 465.000	0	26,227,692	(250,000)		320,130,323
12-Eeh-07	242.190.742	·	242,190,742	215,963,049	(000, 102,02)	46 455.000	0	19,564,701	(250,000)		2/9,092,124
13-Feh-D7	201.934,542	,	201,934,542	182,369,841	(000 07 200)	45 709 000	0	18,165,710	(250,000)		201,240,021
10-1 co-01	173 736 239	ı	173,736,239	155,570,529	(DE2,040,12)	46.137.000	0	17,940,719	(250,000)		231,009,37.0
	154 431 996	,	154,431,996	136,491.277	(28,196,261)	46.4EE.000	0	17,305,728	(250,000)		213,383,320
15-FeD-U/	104,101,000	1	136,375,738	119,070,010	(28,849,272)	40,100,000		(2.080.263)	(250,000)		206,185,588
16-Feb-07	001,010,001		129,428,006	131,508,269	(29,502,263)	27,422,000		(2 733 254)			204,995,665
17-Feb-07	129,428,000	I	128 488 083	131,221,337	(30,155,254)	27,422,000	2 1	121 JUL 12			203,805,741
18-Feb-07	128,488,083	ŧ	107 548 160	130.934.404	(30,808,245)	27,422,000	0	(3,386,249)			202,615,818
19-Feb-07	127,548,160	•	4 1 C C C C C C C C C C C C C C C C C C	130.647.472	(31,461,235)	27,422,000	0	(4,039,235)			173,200,591
20-Feb-07	126,608,236	ł	000 011 20	101 QRU 235		27,577,000	0	(4,537,226)			150.727.953
21-Feb-07	97,443,009	ŧ	91,443,009	00 040 588		27,047,000	0	(5,720,217)			118,486.238
22-Feb-07	75,220,371	ı	75,220,371	00,940,000		27,062,000	0	(6,358,208)			114 717 940
23-Feb-07	43,228,657	1	43,228,657			27.062.000	0	(7,011,199)			112 528 017
24-Feh-07	39,710,358	ŝ	39,710,358			27,062,000	0	(7,664,190)			110,020,011
DE Ech U7	38 770.435	1	38,770,435				0	(8,317,181)	(1) (250,000)		
20-Len-07	37 830 512	Ţ	37,830,512				207 000 000	198,029,828	3 (250,000)		398,253,789
20-LeD-U/	21 0,000,10	1	323,996,208	125,966,380				213.526.837	7 (250,000)		363,240,920
2/-Feb-U/	027,055,020 780,022,230	•	289,233,339	9 75,706,502			000 000 28	154.648.256	5 (250,000)		387,098,705
28-Feb-U/	2007 7 7 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 0		313.341.123	3 158,692,867		_		127 630 676	g (250.000)		383,019,207
1-Mar-07	313,341,123	~ ·	309.511,625					2 10'000' 101 102 705 095			370,048,372
2-Mar-07	309,116,908		296 790 790		5 (27,185,905)	` 		121,00,000 646			370,905,055
3-Mar-07	296,790,790	-	297,897,473					CIC,305,001			371,761,738
4-Mar-07	291,891,413		299 004 156				החיחחיצם	70 30E 3EA			342,765,769
5-Mar-07	299,004,156	، م	270.258.188								331,566,260
6-Mar-07	270,258,188	20	259 308 678)5 (14,520,227)						302,469,152
7-Mar-07	259,308,678	. 8	200,000,000 930 A61 570		77 (11,353,807)						309,496,440
8-Mar-07	230,461,570	. 0	200,101,002 207 728 850		16 (8,187,388)) 72,273,000					290,012,252
9-Mar-07	237,738,859	. 6			39 (5,020,968)	() 68,298,000					290,868,935
10-Mar-07	218,504,671		- 12,400,318,204,014			() 68,298,000				5 8	291.725.619
11-Mar-07	219,611,354		219,611,334			68,298,000	0			()	271 521 045
12-Mar-07	220,718,037		220,718,037				0 0			()	253 24A 824
13-Mar-07	200,763,463	33 -	- 200,763,463				0	69,940,710		6	200,244,024
14-Mar-07	182,737,242		- 182,737,242				0			(0	231,400,004 000,067 897
	161 229 010	-	- 161,229,010					0 70,807,549	49 (250,000)	()	170,108,022
TO-IBINI-CI	150 950 246		- 150,950,246	46 80,142,697	13,977,549			_	-		
16-Mar-U/	-innoinnt	2			19 of 25						
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	investments Outstanding	Uebt/(Invest) Outstanding	BALANCE	AFI & AEH/AEC NOTE		filminipicmo		FLOW target	STD projection	
1	1	169,076,377	126,391,409	17,143,968	25,541,000	0	42,684,968	(250,000)		238,833,959
	ſ	170,183,060	124,331,672	20,310,388	25,541,000	0	45,851,388	(250,000)		239,690,642
	I	171,289,743	122,271,936	23,476,807	25,541,000	0	49,017,807	(250,000)		240,547,325
	ı	155,627,956	101,387,729	26,643,227	27,597,000	0	54,240,227	(250,000)		224,635,538
	I	140,818,893	87,416,247	29,809,646	23,593,000	0	53,402,646	(250,000)		209,576,475
127,330,123	1	127,330,123	76,761,058	32,976,066	17,593,000	0	50,569,066	(250,000)		195,837,705
121,865,820	1	121,865,820	76,130,334	36,142,485	9,593,000	0	45,735,485	(250,000)		190,123,401
103,088,779	I	103,088,779	55,186,874	39,308,905	8,593,000	0	47,901,905	(250,000)		171,096,360
104,195,462	I	104,195,462	53,127,138	42,475,324	8,593,000	0	51,068.324	(250,000)		171,953,044
105,302,145		105,302,145	51,067,401	45,641,744	8,593,000	0	54,234,744	(250,000)		172,809,727
372,625,673	ı	372,625,673	198,216,510	48,808,163	8,601,000	117,000,000	174,409,163	(250,000)		439,883,255
378,790,809	ı	378,790,809	235,438,227	51,974,583	19,378,000	72,000,000	143,352,583	(250,000)		445,798,391
373,416,941	1	373,416,941	238,065,938	55,141,002	8,210,000	72,000,000	135,351,002	(250,000)		440,174,522
355,821,065	,	355,821,065	261,303,643	58,307,422	36,210,000	0	94,517,422	(250,000)		422,328,647
303,136,410	,	303,136,410	172,557,568	61,473,841	69,105,000	0	130,578,841	(250,000)		369,393,992
302,969,885	,	302,969,885	172,434,154	61,430,730	69,105,000	0	130,535,730	(250,000)		368,977,466
302,803,359	I	302,803,359	172,310,740	61,387,619	69,105,000	0	130,492,619	(250,000)		368,560,941
302,191,385	£	302,191,385	191,452,877	61,344,509	49,394,000	0	110,738,509	(250,000)		367,698,967
289,998,272	1	289,998,272	187,966,875	61,301,398	40,730,000	0	102,031,398	(250,000)		355,255,854
269,862,602	1	269,862,602	168,895,315	61,258,287	39,709,000	0	100,967,287	(250,000)		334,870,184
253,244,385	ſ	253,244,385	156,320,209	61,215,176	35,709,000	0	96,924,176	(250,000)		318,001,966
241,258,465	t	241,258,465	146,418,400	61,172,065	33,668,000	0	94,840,065	(250,000)		305,766,046
241,091,939	ł	241,091,939	146,294,986	61,128,954	33,668,000	0	94,796,954	(250,000)		305,349,521
240,925,414	,	240,925,414	146,171,571	61,085,843	33,668,000	0	94,753,843	(250,000)		304,932,996
214,577,791	,	214,577,791	119,867,059	61,042,732	33,668,000	0	94,710,732	(250,000)		278,335,373
204,923,772	3	204,923,772	117,631,151	60,999,621	26,293,000	0	87,292,621	(250,000)		268,431,353
194,879,009	J	194,879,009	109,629,499	60,956,510	24,293,000	0	85,249,510	(250,000)		258,136,591
182,600,858		182,600,858	89,894,459	60,913,399	31,793,000	0	92,706,399	(250,000)		245,608,440
168,035,512	ł	168,035,512	75,372,224	60,870,288	31,793,000	0	92,663,288	(250,000)		230,793,094
167,868,987	1	167,868,987	75,248,810	60,827,177	31,793,000	0	92,620,177	(250,000)		230,376,568
167,702,461	ĩ	167,702,461	75,125,395	60,784,066	31,793,000	0	92,577,066	(250,000)		229,960,043
180,016,336	1	180,016,336	91,090,381	60,740,955	28,185,000	0	88,925,955	(250,000)		242,023,918
162,420,529	1	162,420,529	76,217,685	60,697,844	25,505,000	0	86,202,844	(250,000)		224,178,111
145,956,167	I	145,956,167	56,796,434	60,654,733	28,505,000	0	89,159,733	(250,000)		207,463,749
143,419,924	I	143,419,924	57,388,302	60,611,622	25,420,000	0	86,031,622	(250,000)		204,677,506
134,409,587	1	134,409,587	48,421,075	60,568,512	25,420,000	0	85,988,512	(250,000)		195,417,168
134,243,061	1	134,243,061	48,297,661	60,525,401	25,420,000	0	85,945,401	(250,000)		195,000,643
134,076,536		134,076,536	48,174,247	60,482,290	25,420,000	0	85,902,290	(250,000)		194,584,118
120,716,836	1	120,716,836	39,442,658	60,439,179	20,835,000	0	81,274,179	(250,000)		180,974,418
276.408.388	ı	276.408.388	70,177,321	60,396,068	18,835,000	127,000,000	206,231,068	(250,000)		336,415,970
310 005 411		310 995 411	130.007.454	60.352.957	43,635,000	77,000,000	180,987,957	(250,000)		370,752,993
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		Consolidated		UTILITY BAL	Subsidiary Interco Acct	AEH / AEC NOTE	AEM External T	TOTAL NON-REG			
	Short Term	UTILITY	Net S. T.		END BAL (EXCL		Principal				
Date	Debt	Investments Outstanding	Debt/(Invest) Outstanding	BALANCE	APT & AEH/AEC NOTE		Oustanding		FLOW target S	ZUUG LIAIIY STD projection	
28. Anr 07	041314114119		278.234.568	80.957.833	60,266,735	97,010,000	40,000,000	197,276,735	(250,000)		337,492,150
29-Apr-07	278.068.043	ŧ	278,068,043	80,834,419	60,223,624	97,010,000	40,000,000	197,233,624	(250,000)		337,075,624
30-Apr-07	277,901,517		277,901,517	80,711,004	60,180,513	97,010,000	40,000,000	197,190,513	(250,000)		336,659,099
1-May-07	250,091,697	1	250,091,697	93,957,429	59,818,269	96,316,000	0	156,134,269	(250,000)		308,599,279
2-May-07	247,314,512	ţ	247,314,512	106,212,487	59,456,024	81,646,000	0	141,102,024	(250,000)		305,572,093
3-May-07	235,774,520	ı	235,774,520	100,560,740	59,093,780	76,120,000	0	135,213,780	(250,000)		293,782,102
4-May-07	227,826,101	ı	227,826,101	96,362,566	58,731,535	72,732,000	0	131,463,535	(250,000)		285,583,683
5-May-07	235,223,951	ı	235,223,951	106,122,660	58,369,291	70,732,000	0	129,101,291	(250,000)		292,731,533
6-May-07	235,337,224	ı	235,337,224	106,598,178	58,007,047	70,732,000	0	128,739,047	(250,000)		292,594,806
7-May-07	235,450,497	I	235,450,497	107,073,695	57,644,802	70,732,000	0	128,376,802	(250,000)		292,458,079
8-May-07	223,701,649	1	223,701,649	103,028,091	57,282,558	63,391,000	0	120,673,558	(250,000)		280,459,231
9-Mav-07	212,787,029	,	212,787,029	96,760,716	56,920,313	59,106,000	0	116,026,313	(250,000)		269,294,611
10-Mav-07	205.398.979		205,398,979	92,681,910	56,558,069	56, 159,000	0	112,717,069	(250,000)		261,656,561
11-Mav-07	206.961.239	•	206,961,239	90,360,415	56,195,825	60,405,000	0	116,600,825	(250,000)		262,968,821
12-Mav-07	202 111.402	,	202,111,402	89,372,821	55,833,580	56,905,000	0	112,738,580	(250,000)		257,868,983
13-Mav-07	202 224 675	,	202.224,675	89,848,339	55,471,336	56,905,000	0	112,376,336	(250,000)		257,732,256
14-Mav-07	202.337.948	ł	202.337,948	90,323,857	55,109,091	56,905,000	0	112,014,091	(250,000)		257,595,530
15-May-07	216 635 048	ı	216.635.048	107,823,201	54,746,847	54,065,000	0	108,811,847	(250,000)		271,642,629
16-Mav-07	208.827.074	1	208,827,074	103,422,471	54,384,603	51,020,000	0	105,404,603	(250,000)		263,584,656
17-Mav-07	193.589.999		193,589,999	95,047,641	54,022,358	44,520,000	0	98,542,358	(250,000)		248,097,580
18-Mav-07	192.744.156	,	192,744,156	101,406,542	53,660,114	37,677,500	0	91,337,614	(250,000)		247,001,737
19-Mav-07	183,934,223	,	183,934,223	94,456,854	53,297,869	36,179,500	0	89,477,369	(250,000)		237,941,805
20-Mav-07	184,047,497	ſ	184,047,497	94,932,372	52,935,625	36,179,500	0	89,115,125	(250,000)		237,805,078
21-Mav-07	184,160,770	ı	184,160,770	95,407,889	52,573,381	36,179,500	0	88,752,881	(250,000)		237,668,351
22-Mav-07	186,118,122	ł	186,118,122	102,727,986	52,211,136	31,179,000	0	83,390,136	(250,000)		239,375,704
23-Mav-07	182.352.851	,	182,352,851	112,174,959	51,848,892	18,329,000	0	70,177,892	(250,000)		235,360,432
24-Mav-07	176,778,222	J	176,778,222	112,962,574	51,486,647	12,329,000	0	63,815,647	(250,000)		229,535,803
25-Mav-07	298,578,252	ı	298,578,252	138,124,849	51,124,403	12,329,000	000'000'26	160,453,403	(250,000)		351,085,833
26-Mav-07	327,807,427	,	327,807,427	205,742,768	50,762,159	9,302,500	62,000,000	122,064,659	(250,000)		380,065,009
27-Mav-07	327,920,700	,	327,920,700	206,218,286	50,399,914	9,302,500	62,000,000	121,702,414	(250,000)		379,928,282
28-Mav-07	328,033,973	ı	328,033,973	206,693,804	50,037,670	9,302,500	62,000,000	121,340,170	(250,000)		379,791,555
29-May-07	328,147,247	ı	328,147,247	207,169,321	49,675,425	9,302,500	62,000,000	120,977,925	(250,000)		379,654,828
30-May-07	336,554,669	ı	336,554,669	221,241,488	49,313,181	4,000,000	62,000,000	115,313,181	(250,000)		387,812,251
31-Mav-07	256,633,887		256,633,887	125,352,951	48,950,937	82,330,000	0	131,280,937	(250,000)		307,641,469
1-Jun-07	257,577,436	ı	257,577,436	136,121,631	49,025,805	72,430,000	0	121,455,805	(250,000)		308,335,018
2-Jun-07	250,178,014	1	250,178,014	133,332,341	49,100,673	67,745,000	0	116,845,673	(250,000)		300,685,595
3-Jun-07	249,862,874	,	249,862,874	132,942,333	49,175,541	67,745,000	0	116,920,541	(250,000)		300,120,456
4-Jun-07	249,547,734	ı	249,547,734	132,552,325	49,250,409	67,745,000	0	116,995,409	(250,000)		299,555,316
5-Jun-07	236,885,114	I	236,885,114	122,693,837	49,325,278	64,866,000	0	114,191,278	(250,000)		286,642,696
6-Jun-07	233,029,855	,	233,029,855	124,763,709	49,400,146	58,866,000	0	108,266,146	(250,000)		282,537,437
7-Jun-07	226,754,202	ł	226,754,202	120,250,188	49,475,014	57,029,000	0	106,504,014	(250,000)		276,011,784
8-Jun-07	228,245,945	,	228,245,945	122,667,062	49,549,882	56,029,000	0	105,578,882	(250,000)		277,253,526
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		ion	292,074,822	291,509,682	290,944,542	290,404,128	282,800,558	275,381,295	272,644,340	265,380,134	264,814,995	264,249,805	200,UT1,924 254 743 280	246 708 528	250.570.399	242.588.558	242,023,418	241,458,279	400,465,460	423,133,412	433,056,950	443,059,957	348,486,230	302,043,204 361 177 551	350,661,838	349,794,125	340,996,413	340,398,700	335,780,987	334,913,274	334,045,562	328,203,849	321,605,136	315,499,423	312,081,710	304,847,998	303,980,285	303,112,572	310,006,859	303,215,146	297,863,434
Adi to	Auj. to 	achieve CASH 2000 Ually FLOW target STD projection	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(200,000)	(200,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250.000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)
TOTAL NON-REG			103,666,751	103,741,619	103,816,487	95,821,855	93,808,724	88,877,092	85,437,960	82,792,828	82,867,696	82,942,565	78,507,433	75,085,301	74 623 038	000,020,11	67 262 774	67,337,642	174,412,511	129,474,379	121,049,247	118,624,115	143,603,983	143,920,400	128 253 234	128,569,651	121,721,067	119,842,484	116,158,901	116,475,318	116,791,735	115,656,151	106,741,568	105,057,985	103,373,402	102,434,819	102,751,235	103,067,652	101,438,069	100,259,486	91,731,903
	Principal	Oustanding	L	0	0	0	0	0	0	0	0	0	0	<u> </u>	0 0	5 0		0	107,000,000	57,000,000	57,000,000	57,000,000	0	0 0		0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			54,042,000	54,042,000	54,042,000	45,972,500	43,884,500	38,878,000	35,364,000	32,644,000	32,644,000	32,644,000	28,134,000	27,637,000	24,547,000	000'929'17	16,313,000	16.515.000	16,515,000	21,502,000	13,002,000	10,502,000	92,407,000	92,407,000	76 107 000	76.107.000	68,942,000	66,747,000	62,747,000	62,747,000	62,747,000	61,295,000	52,064,000	50,064,000	48,063,000	46,808,000	46,808,000	46,808,000	44,862,000	43,367,000	34,523,000
F	END BAL (EXCL	APT & AFH/AEC NOTE	49,624,751	49,699,619	49,774,487	49,849,355	49,924,224	49,999,092	50,073,960	50,148,828	50,223,696	50,298,565	50,373,433	50,448,301	50,523,169	50,598,038	ans'7/a'nc	50.822.642	50,897,511	50,972,379	51,047,247	51,122,115	51,196,983	51,513,400	51,829,817	52,462,651	52,779,067	53,095,484	53,411,901	53,728,318	54,044,735	54,361,151	54,677,568	54,993,985	55,310,402	55,626,819	55,943,235	56,259,652	56,576,069	56,892,486	57,208,903
	DAILY	BALANCE	139.650.489	139,260,481	138,870,474	146,574,691	141,234,253	138,996,622	139,948,799	135,579,724	135,189,716	134,799,709	131,246,910	130,650,397	125,880,777	133,439,780	130,143,070	129,133,055	181.545.368	249,401,451	268,000,121	280,678,260	161,374,665	174,867,282	173,933,152	178 716 893	177,017,764	178,548,634	177,864,504	176,930,375	175,996,245	171,540,116	174,105,986	169,933,856	168,450,727	162,405,597	161,471,468	160,537,338	169,311,208	163,948,079	167,373,949
٦	Net S. T.	Debt/(Invest) Outstanding	243 317.240	243,002,100	242,686,961	242,396,546	235,042,976	227,873,714	225,386,759	218,372,552	218,057,413	217,742,273	209,754,343	208,735,698	200,950,946	205,062,817	197,330,976	100,010,181	355 957 878	378,875,830	389,049,368	399,302,375	304,978,649	318,787,682	318,169,969	307,904,257	298.738.831	298,391,118	294,023,405	293,405,693	292,787,980	287,196,267	280,847,554	274,991,841	271,824,129	264,840,416	264,222,703	263,604,990	270,749,278	264,207,565	259.105.852
Consolidated	UTILITY	Investments	Guiptinia	ł	ı	ı	ı	ı	ı	ı		ı	٢	t	F	1	,	;	1 1	ı	,	ı	•	ı	1	I	1 1	ı	F	ı	ı	ı	ı	1	ı	ł	ı	I	ı	ł	1
	Short Term	Debt	043 317 240	243.002.100	242,686,961	242,396,546	235,042,976	227,873,714	225,386,759	218,372,552	218,057,413	217,742,273	209,754,343	208,735,698	200,950,946	205,062,817	197,330,976	197,015,837 105 700 607	150,100,031 355 957 878	378-875-830	389,049,368	399,302,375	304,978,649	318,787,682	318,169,969	307,904,257 207 386 644	201, 200, 244	298.391.118	294,023,405	293,405,693	292,787,980	287,196,267	280,847,554	274,991,841	271,824,129	264,840,416	264,222,703	263,604,990	270,749,278	264,207,565	259 105 852
		Date	0 110 07	3-Jun-07	11-Jun-07	12-Jun-07	13-Jun-07	14-Jun-07	15-Jun-07	16-Jun-07	17-Jun-07	18-Jun-07	19-Jun-07	20-Jun-07	21-Jun-07	22-Jun-07	23-Jun-07	24-Jun-07	10-line-cz	27-Jun-07	28-Jun-07	29-Jun-07	30-Jun-07	1-Jul-07	2-Jul-07	3-Jul-07	4-Jul-U/ 5_ lut_07	6hil-07	70-Jul-7	8-Jul-07	9-Jul-07	10-Jul-07	11-Jul-07	12-Jul-07	13-Jul-07	14-Jul-07	15-Jul-07	16-Jul-07	17-Jul-07	18-Jul-07	19-Jul-07

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		lly ection	301,255,008	300,387,295	299,519,582	299,577,870	466,699,157	459,230,444	454,625,731	453,764,019	452,896,306	452,028,593	382,729,880	385,309,670	379,668,461	354,668,251	355,841,041	353,397,832	351,541,622	347,880,412	341,556,203	335,438,993	328,259,783	313,612,574	305,127,364	305,433,154	305,771,944	308,410,735	300,843,525	294,327,315	295,214,106	293,720,896	294,059,686	294,398,477	
	Adj. to	achieve CASH 2008 Daily FLOW target STD projection	1ธ	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250 000)
TOTAL NON-REG			84,872,736	85,189,153	85,505,570	82,823,987	143,143,404	118,459,820	118,776,237	119,092,654	119,409,071	119.725,488	107,381,904	106,286,858	105,191,812	87,796,766	86,701,720	78,441,674	75,151,628	70,056,582	68,961,535	67,866,489	65,319,443	54,993,397	51,898,351	50,770,305	49,675,259	48,580,213	47,485,167	46,390,120	45,295,074	44,200,028	43,104,982	42,009,936	40 014 800
AEM External	Principal	Oustanding	0	0	0	0	72,000,000	47,000,000	47,000,000	47,000,000	47,000,000	47,000,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
AEH / AEC NOTE			27,031,000	27,031,000	27,031,000	24,033,000	12,036,000	12,036,000	12,036,000	12,036,000	12,036,000	12,036,000	46,376,000	46,376,000	46,376,000	30,076,000	30,076,000	22,911,000	20,716,000	16,716,000	16,716,000	16,716,000	15,264,000	6,033,000	4,033,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	
Subsidiary Interco Acct	END BAL (EXCL	APT & AEH/AEC NOTE	57,841,736	58,158,153	58,474,570	58,790,987	59,107,404	59,423,820	59,740,237	60,056,654	60,373,071	60,689,488	61,005,904	59,910,858	58,815,812	57,720,766	56,625,720	55,530,674	54,435,628	53,340,582	52,245,535	51,150,489	50,055,443	48,960,397	47,865,351	46,770,305	45,675,259	44,580,213	43,485,167	42,390,120	41,295,074	40,200,028	39,104,982	38,009,936	36 014 RON
utility Bal	DAILY	BALANCE	178,124,690	177,190,561	176,256,431	179,246,301	286,298,172	303,763,042	299,091,913	298,163,783	297,229,653	296,295,524	239,590,394	243,515,231	239,219,067	231,863,903	234,381,740	240,448,576	242, 132, 413	243,816,249	238,837,086	234,064,922	229,682,758	225,611,595	220,471,431	222, 155, 268	223,839,104	227,822,941	221,600,777	216,429,613	218,661,450	218,513,286	220,197,123	221,880,959	222 525 7G5
	Net S. T.	Debt/(Invest) Outstanding	262,997,426	262,379,714	261,762,001	262,070,288	429,441,575	422,222,862	417,868,150	417,256,437	416,638,724	416,021,011	346,972,299	349,802,089	344,410,879	319,660,669	321,083,460	318,890,250	317,284,040	313,872,831	307,798,621	301,931,411	295,002,202	280,604,992	272,369,782	272,925,573	273,514,363	276,403,153	269,085,943	262,819,734	263,956,524	262,713,314	263,302,105	263,890,895	263 440 685
Consolidated	UTILITY	Investments Outstanding		ı	ı			ı	1	ı	,	ı	ı	ł	I	ı	l	,	ı	ı	ı	1	ı	ı	I	ı	I	ı	I	•	1	1	١	ı	ı
	Short Term	Debt Outstanding	262,997,426	262,379,714	261,762,001	262,070,288	429,441,575	422,222,862	417,868,150	417,256,437	416,638,724	416,021,011	346,972,299	349,802,089	344,410,879	319,660,669	321,083,460	318,890,250	317,284,040	313,872,831	307,798,621	301,931,411	295,002,202	280,604,992	272,369,782	272,925,573	273,514,363	276,403,153	269,085,943	262,819,734	263,956,524	262,713,314	263,302,105	263,890,895	263 440 685
		Date	21-Jul-07	22-Jul-07	23-Jul-07	24-Jul-07	25-Jui-07	26-Jul-07	27-Jul-07	28-Jul-07	29-Jul-07	30-Jul-07	31-Jul-07	1-Aug-07	2-Aug-07	3-Aug-07	4-Aug-07	5-Aug-07	6-Aug-07	70-guA-7	8-Aug-07	9-Aug-07	10-Aug-07	11-Aug-07	12-Aug-07	13-Aug-07	14-Aug-07	15-Aug-07	16-Aug-07	17-Aug-07	18-Aug-07	19-Aug-07	20-Aug-07	21-Aug-07	22.Aun.07

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		ion	284,957,848	338,539,638	318,237,428	318,576,219	318,915,009	327.766.799	319.408.589	307,656,380	305,906,863	303,532,346	301,007,829	298,483,313	295,958,796	289.654.279	279.230.762	271 383 246	287 084 729	284 560.212	282.035.695	272 230.178	242 200 662	200,020,002 DEA 261 145	041'100'4CZ		274,557,111	2/2/032/039	269,508,078	265,078,001	260,184,044	252,460,527	246,888,011	244,197,494	241,672,977	311,148,460	359,915,944	363,488,427	367,402,910	369,126,393	418,893,876	324,130,478	(20,507,582)		
		achieve CASH 2008 Ually cl OW farrief STD projection	7 a	(250,000)	(250,000)		(200,000) (250,000)	(000,002)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(220,400)	(250,000)	(nnn'ngz)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)	(250,000)								nnn'nez'L6 (1	
TOTAL NON-REG				38,724,798	1/6//9/1	131,934,103	136,439,659	135,344,613	134,299,567	133,204,521	79,309,475	70.045,976	70,682,478	71,318,979	71,955,481	72,591,982	73,228,484	68,864,985	65,501,486	59,137,988	59,774,489	60,410,991	57,047,492	54,633,994	51,320,495	52,076,997	52,788,498	53,425,000	54,061,501	54,698,002	67.234.504	65.871.005	66.507.507	67 144 008		*) (83,581,638)	F
AEM External TO	Principal	Oustanding		0	72,000,000	47,000,000	47,000,000	47,000,000	47,000,000	47,000,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0) C									-				(27,000,000)	000 000 11-
AEH / AEC NOTE				4,000,000	71,150,000	58,000,000	58,000,000	58,000,000	58,050,000	58,050,000	52,250,000	42,350,000	42,350,000	42,350,000	42,350,000	42,350,000	42,350,000	37,350,000	33,350,000	26,350,000	26,350,000	26,350,000	22.350.000	19 300 000	15 350 000	15,000,000	10,410,000		15,545,000	10,040,000	15,545,000	000'G44'/Z	25,445,000	25,445,000	25,445,000	25,445,000	25,445,000	78,895,000			40,720,000			(4,000,000)	
Subsidiary Interco Acct AE		NU DAL (EAUL	AEH/AEC NOTE	34,724,798	33,629,752	32,534,705	31,439,659	30.344.613	29.249.567	28.154.521	27.059.475	27.695.976	28,332,478	28,968,979	29.605.481	30 241.982	30 878 484	31 514 985	32 151 486	32 787 988	33 424 489	34 060 991	24 607 402	764' JEO'+C	50,000,334	30,970,433	36,606,997	37,243,496	37,880,000	38,516,501	39,153,002	39,789,504	40,426,005	41,062,507	41,699,008	42,335,510	42,972,011	43,608,513	44,245,014	44,881,516	45,518,017				
Su IITU RAI		DAILY E BALANCE		216.475.468	132,252,305	151 445 141	153 128.978	154 213 814	104,012,014 464.050.650	167 046 487	101,940,401	200,303,305	200,100,000	202,021,269	100 520 250	133,320,233	190,009,001	103,310,416	184,100,130	1/9,8/4,1//	202,169,139	199,270,141	196,367,123	190,175,104	183,899,086	178,533,068	200,580,050	197,761,032	194,850,013	191,938,995	187,122,977	169,941,959	163,831,940	157,872,922	154,795,904	151,884,886	148,973,867	143,904,849	193,440,831	195,943,813	190,130,795	211.911.776	185 225 947		
	٦	Net S. T.	Jeur (III vou)	ALISIAN DER	200,200,200	200,200,000	288,979,047	100'000'687	290,157,427	299,259,217	291,151,008	279,648,798	278,149,281	2/6,024,703	273,750,248	271,4/5,/31	269,201,214	263,146,697	252,973,181	245,375,664	261,327,147	259,052,630	256,778,114	247,222,597	238,533,080	229,853,563	252,657,046	250,549,530	248,275,013	246,000,496	241,820,979	237,176,463	229,702,946	224.380.429	221,939,912	219.665.395	289,390,879	338,408,362	342 230,845	346 395 328	348,368,812	340, JUU, UL	398,386,293	258,122,897	1
	Consolidated			Outstanding	1	ŧ	•	I	ł	I	,		,	ı	ı	ŀ	t	•	ł	1	ı	ı	1		•	I	,	•	,	۰	,		1				t		•	I	1				
		Short Term	Debt	Outstanding	255,200,266	309,032,056	288,979,847	289,568,637	290,157,427	299,259,217	291,151,008	279,648,798	278,149,281	276,024,765	273,750,248	271,475,731	269,201,214	263,146,697	252,973,181	245,375,664	261,327,147	259,052,630	256,778,114	247 222.597	238.533.080	220 853 563	252,000,000 252,657,046	750 540 530	230,349,330	010,012,0 12	240,000,070	616'070'147	23/,1/0,403	7.29,102,340	224,380,429	221,939,912	219,665,395	289,390,879	338,408,362	342,230,845	346,395,328	348,368,812	398,386,295		(111,757,582)
			Date		24-Aug-07	25-Aug-07	26-Aug-07	27-Aug-07	28-Aug-07	29-Aug-07	30-Aug-07	31-Aug-07	1-Sep-07	2-Sep-07	3-Sep-07	4-Sep-07	5-Sep-07	6-Sep-07	7-Sen-07	R-Sen-07	9-Sep-07	10-Sep-07	11_San_07	17 Son 07	12 Con 07	10-0eb-01	14-Sep-U/	/n-dac-cl	16-Sep-U/	1/-sep-u/	18-Sep-U/	19-Sep-07	20-Sep-07	21-Sep-07	22-Sep-07	23-Sep-07	24-Sep-07	25-Sep-07	26-Sep-07	27-Sep-07	28-Sep-07	29-Sep-07	30-Sep-07	AVG BALANCE	CASH FLOW:

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	Adj. to achieve CASH 2008 Daily FLOW target STD projection
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	Consolidated UTILITY Investments Outstanding
	Short Term Debt Outstanding
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FY 2007 CONSOLIDATED STD CONSOLIDATED STD CONSOLIDATED STD 210,199,657 271,578,039 314,500,420 286,112,472 210,569,020 226,496,637 221,408,483 226,496,637 221,408,483 221,408,483 221,408,483 2249,655,837 303,13 226,65 249,655,837 303,13 226,65 249,655,837 303,13 226,65 249,655,837 303,13 226,65 249,655,837 303,13 226,65 249,655,837 303,13 226,65 249,655,837 303,13 226,65 249,655,837 303,13 226,65 249,655,837 303,13 226,65 249,655,837 303,13 226,65 233,400,179 303,13 256,65 249,655,837 303,13 256,65 249,655,837 303,13 256,65 263,50 264,65 263,50 264,55 264,55 264,55 264,55 264,55 264,55 263,59 303,13 256,65 303,33 256,65 263,50 264,55 263,50 264,55 264,55 263,50 264,55 264,55 264,55 264,55 277,50 303,13 256,55 264,55 277,50 264,55 277,50 264,55 277,50 264,55 277,50 276,50 277,	1 002,200,102
TED STD END BAL 144,875,000 292,500,000 346,275,000 466,900,000 262,475,000 265,475,000 297,550,000 297,550,000 298,225,000 298,225,000 298,225,000 298,225,000	306,997,193
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sep oct jan jun jul sep sep	

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Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 35 Witness: Don Murry

Data Request:

Refer to the Direct Testimony of Donald A. Murry ("Murry Testimony"). Provide all schedules in electronic format (Excel) with formulas intact.

Response:

Please see the attached spreadsheet labeled Case 2006-00464 KPSC DR2-35 ATT2.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 36 Witness: Don Murry

Data Request:

Refer to the Murry Testimony, page 14, and Schedule DAM-5. Provide a schedule showing Atmos's capital structure when all long-term and short-term debt is included in the calculation.

Response:

Please see filing Schedule J-1, "Cost of Capital Summary, Thirteen Month Average as of June 30, 2008", attached as a REVISED schedule in response to AG Data Request 1-1.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 38 Witness: Don Murry

Data Request:

Refer to the Murry Testimony, page 16, and Schedule DAM-8. Provide an update to the schedule that also calculates the cost of any short-term debt held by Atmos.

Response:

Please refer to REVISED Exhibit LMS-3 as attached to AG 1-1.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 39 Witness: Don Murry

Data Request:

Refer to the Murry Testimony, page 18, lines 1 through 14, pages 19 and 20, and Schedules DAM-9, DAM-11, and DAM-12.

- a. Provide documentation supporting the implied contention that Atmos's relatively weak performance / standing relative to the comparison companies is attributable to a lack of performance in its utility gas distribution operations.
- b. Value Line company profile discussions are typically put together by a single analyst, whereas other financial reporting businesses publish average or consensus forecasts obtained from multiple analysts. Provide updates to Schedules DAM-9, DAM-11, and DAM-12 using data obtained from financial information providers such as Reuters and Zacks.

Response:

a. Please refer to Dr. Murry's testimony page 20, lines 4 through 15 and Schedule DAM-11 showing Atmos' net income is less than the comparable gas distribution utilities. Please refer to the response to AG 37.b. which demonstrates the preponderance of Atmos' operating revenues are from the regulated gas distribution business. Also, as reported in the most recent 10-K annual reports, Atmos non-regulated operations have higher net income as a percent of revenue than its regulated utility operations. Additionally, Atmos' non-regulated businesses perform relatively favorably to the non-regulated businesses of these same comparable companies. Therefore, the relatively low common stock returns of Atmos almost certainly derive from its regulated gas distribution business. Please see the following table.

Atmos	Utility	Marketing	Pipeline & Storage	Non-utility
Rev.	\$3,649,851	\$2,481,856	\$81,857	\$1,799
Net Inc.	53,002	37,757	19,457	545
Percent	1.45%	1.56%	23.77%	30.30%
AGL	Distribution	Retail Energy	Energy Inves	tments
Rev.	\$1,624	\$930	\$41	
EBIT	310	63	10	
Percent	19.09%	6.77%	24.39%	

NJ Res.	Nat. Gas Distribution		Ene	rgy Services	Retail & Other
Rev. Net Inc. Percent	\$1,138,774 46,870 4.12%			33,540 28,113 1.32%	\$27,568 3,536 12.83%
NICOR Gas	Distribution	Storage	Othe	er Energy Servi	ices
Rev. Oper. Inc. Percent	\$2,452.3 123.9 5.05%		398.3 47.5 11.93%	\$215.9 26.6 12.32%	
NW Nat.	Utility	Storage			
Rev. Net Inc. Percent	\$1,000,188 56,653 5.66%	\$12,984 5,982 46.02%	6		
Piedmont	Utility				
Rev. EBIT Percent	\$1,924,628 130,730 6.79%				
Southwest	Natural Gas	С	onstructio	n Services	
Rev. Net Inc. Percent	\$1,727,394 71,473 4.14%	\$2	297,364 12,387 4.17%		
WGL Hldgs	Regulated Ut	ility N	on-Utility		
Rev. Net Inc. Percent	\$1,637,491 84,599 5.17%		1,001,596 13,765 1.38%		

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b. The data in the referenced schedules is historical and not forecasted data. Therefore, there are no average or consensus forecasts to obtain from Reuters or Zacks to update the referenced schedules.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 40 Witness: Don Murry

Data Request:

Atmos has been pursuing a business strategy of growth through acquiring other gas distribution and gas pipeline companies over the years. Provide an explanation of whether this strategy could affect Atmos's position relative to the comparison companies in Schedules DAM-9, DAM-11, and DAM-12.

Response:

Please see Murry Direct Testimony, page 14, lines 13-19. The level of temporary debt increase associated with acquisitions probably influenced Atmos' cited, relative bond and credit ratings. However, Atmos has greater leverage, lower common stock equity and higher financial risk, but still lower realized returns on common equity than the comparable gas distribution utilities.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 41 Witness: Don Murry

Data Request:

Refer to the Murry Testimony, pages 18 and 19. Is Dr. Murry aware that Atmos's Kentucky Division currently operates under a gas purchasing incentive plan, has weather normalized rates and earns the majority of profits from the customer charge and not through its gas cost adjustment? Provide a detailed explanation of why each of these items would not serve to lower Atmos's risk.

Response:

A gas purchase incentive plan and rate designs that provide stable revenues over time do not necessarily decrease the risk to investors because they do not lower the anticipated level of returns. For example, weather normalization plans decrease the higher revenues and at the same time increase the lower revenues expected. As these provisions are common in the gas distribution sector, many investors are familiar with their existence.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 42 Witness: Don Murry

Data Request:

Refer to the Murry Testimony, page 32. Explain why an investor would prefer to use 52-week high and low stock prices in the Discounted Cash Flow calculations rather than more recent data.

Response:

Many investors follow research services, such are Reuters and Zack's, that report 52-Week market price ranges. Value Line lists annual highs and lows as well. An annual range of prices is consistent with the expectations of many investors.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 43 Witness: Don Murry

Data Request:

Refer to the Murry Testimony, Schedules DAM-18 through DAM-21. Provide updated Schedules using the most current dividends per share and earnings figures, as opposed to the 2000-2002 figures, as the base for calculating the Growth Rate column.

Response:

Please see the attachment labeled Case 2006-00464 KPSC DR2-43 ATT1.

Response to Staff Data Request 2-43

Dividend Growth Rate DCF Using 52-Week Share Prices

	Share Pi Low	e Prices High	2007 Dividend	52 Week Yields Low High	Yields High	2006 DPS	2009-11E DPS	Growth Rate	Cost of Capital Low High	apital High
Atmos Energy Corp.	25.55	33.09	1.28	3.87%	5.01%	1.26	1.35	1.74%	5.61%	6.75%
AGL Resources	33.74	40.00	1.58	3.95%	4.68%	1.50		3.93%	7.88%	8.61%
New Jersey Resources	41.49	53.16	1.52	2.86%	3.66%	1.44		4.24%	7.10%	7.90%
NICOR, Inc.	38.72	49.92	1.90	3.81%	4.91%	1.86		1.83%	5.64%	6.74%
Northwest Natural Gas	32.83	42.15	1.43	3.39%	4.36%	1.39		5.16%	8.55%	9.52%
Piedmont Natural Gas	23.21	28.38	1.00	3.52%	4.31%	0.96		5.07%	8.59%	9.38%
Southwest Gas	26.04	38.96	0.82	2.10%	3.15%	0.82		0.00%	2.10%	3.15%
WGL Holdings, Inc.	27.04	33.55	1.38	4.11%	5.10%	1.35		2.33%	6.44%	7.43%
Comparable Companies' Averages	31.87	40.87	1.38	3.39%	4.31%	1.33	1.52	3.22%	6.61%	7.53%

Sources: Value Line Investment Survey Wall Street Journal

Response to Staff Data Request 2-43

Dividend Growth Rate DCF Using Current Share Prices

rields 2006 2009-11E Growth Cost of Capital High DPS DPS Rate Low High	3.98% 1.26 1.35 1.74% 5.67% 5.72%	4.11% 1.50 1.75 3.93% 7.98% 8.04% 2.96% 1.44 1.70 4.24% 7.16% 7.20% 3.88% 1.86 2.00 1.83% 5.67% 5.71% 3.51% 1.39 1.70 5.16% 8.62% 8.68% 3.51% 1.39 1.70 5.16% 8.62% 8.68% 3.51% 1.39 1.77 5.07% 8.63% 8.69% 2.19% 0.82 0.00% 2.16% 8.63% 8.69% 4.20% 1.35 1.48 2.33% 6.47% 6.53% 3.50% 1.33 1.52 3.22% 6.67% 6.53%
Current Yields Low High	3.93%	4.05% 2.93% 3.84% 3.56% 4.15% 3.45%
Current Dividend	1.28	1.58 1.52 1.90 1.43 0.82 1.38 1.38
Prices High	32.59	39.00 51.94 49.53 41.35 28.06 38.04 33.29 40.17
Share F Low	32.20	38.47 51.32 48.92 40.68 37.59 37.38 32.82 39.60
	Atmos Energy Corp.	AGL Resources New Jersey Resources NICOR, Inc. Northwest Natural Gas Piedmont Natural Gas Southwest Gas WGL Holdings, Inc. Comparable Companies' Averages

Sources: Value Line Investment Survey Yahoo! FINANCE ,

Response to Staff Data Request 2-43

Earnings Growth Rate DCF Using 52-Week Share Prices

	Share Prices Low Hig	rices High	2006 Dividend	52 Week Yields Low High	Yields High	2006 EPS	2009-11E EPS	Growth Rate	Cost of Capital Low High	apital High
Atmos Energy Corp.	25.55	33.09	1.28	3.87%	5.01%	2.00	2.45	5.20%	9.07%	10.21%
AGL Resources New Jersey Resources NICOR, Inc.	33.74 41.49 38.72 32.83	40.00 53.16 49.92 42.15	1.58 1.52 1.90	3.95% 2.86% 3.81% 3.39%	4.68% 3.66% 4.91% 4.36%	2.65 2.80 2.70 2.25	2.90 3.35 2.80 2.85	2.28% 4.59% 0.91% 6.09%	6.23% 7.44% 4.72% 9.48%	6.96% 8.25% 5.82% 10.44%
Notitivest Natural Gas Piedmont Natural Gas Southwest Gas WGL Holdings, Inc.	23.21 26.04 27.04	28.38 38.96 33.55	1.00 0.82 1.38	3.52% 2.10% 4.11%	4.31% 3.15% 5.10%	1.30 1.95 1.90	1.75 2.35 2.35	7.71% 4.78% 5.46%	11.24% 6.88% 9.57%	12.02% 7.92% 10.56%
Comparable Companies' Averages	31.87	40.87	1.38	3.39%	4.31%	2.22	2.62	4.54%	7.94%	8.85%
Comparable Companies' Averages without NIC	ut NICOR Inc.	d							8.47%	9.36%

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Sources: Value Line Investment Survey Wall Street Journal

Response to Staff Data Request 2-43

Earnings Growth Rate DCF Using Current Share Prices

	Share Low	Prices High	Current Dividend	Current Yields Low High	′ields High	2006 EPS	2009-11E EPS	Growth Rate	Cost of Capital Low High	apital High
Atmos Energy Corp.	32.20	32.59	1.28	3.93%	3.98%	2.00	2.45	5.20%	9.13%	9.18%
AGL Resources	38.47	39.00	1.58	4.05%	4.11%	2.65	2.90	2.28%	6.33%	6.39%
New Jersey Resources	51.32 48.92	51.94 49.53	1.52	2.93% 3.84%	2.96% 3.88%	2.80 2.70	3.35 2.80	4.59% 0.91%	7.51% 4.75%	4.80%
Northwest Natural Gas	40.68	41.35	1.43	3.46%	3.51%	2.25	2.85	6.09%	9.55%	9.60%
Piedmont Natural Gas	27.59	28.06	1.00	3.56%	3.62%	1.30	1.75	7.71%	11.28%	11.34%
Southwest Gas	37.38	38.04	0.82	2.16%	2.19%	1.95	2.35	4.78%	6.93%	6.97%
WGL Holdings, Inc.	32.82	33.29	1.38	4.15%	4.20%	1.90	2.35	5.46%	9.60%	9.66%
Comparable Companies' Averages	39.60	40.17	1.38	3.45%	3.50%	2.22	2.62	4.54%	7.99%	8.04%
Comparable Companies' Averages without NIC/OR	INCOR 1								8.53%	8.58%

Comparable Companies' Averages without NICOR Inc.

Sources: Value Line Investment Survey Yahoo! FINANCE

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 44 Witness: Don Murry

Data Request:

Refer to the Murry Testimony, pages 13, 14, and 35.

- a. Provide a detailed explanation of why Dr. Murry selected companies that are similar to Atmos as a comparison group, having excluded companies that have market capitalizations of less than \$1 billion and still argues that a small company adjustment is necessary in his Capital Asset Pricing Model ("CAPM") analysis.
- b. Provide updates to Schedules DAM-18 through DAM-25 in electronic format (Excel) including smaller natural gas distribution companies (listed in Value Line), i.e., those with less than \$1 billion.

Response:

- a. Please refer to Murry Direct Testimony (page 35, line 7 through page 37, line 21) for an explanation of the CAPM's bias in its empirical application regarding an underestimate of the returns of companies with smaller market capitalizations. Please see the documentation provided in response to KPSC DR 2-45. The adjustment reported in Schedule DAM-24 is the one recommended by Ibbotson Associates for the respectively sized companies in that schedule.
- b. Please see the attached spreadsheet labeled Case 2006-00464 KPSC DR2-44b.

Response to KPSC Staff 2-44b

Discounted Cash Flow Growth Rate Summary

Projections cal Value Line S & P Book Value EPS DPS EPS	8.5% 7.0% 2.0%	8.5% 4.5% 6.5%	4.5%	4.0%	2.0%	6.0%	7.0%	9.0%	1.5%	5.39% 5.39% 3.56% 4.25%
∕ear Histori DPS	2.0%	2.0%	0.0% 3.0%	3.5%	1.0%	5.0%	2.5%	0.0%	1.5%	2.11%
Value Line Five Y EPS	6.5%		4.3% 8.5%							5.56%
istimate Book Value	6.70%	8.38%	6.72% 6.72%	3.27%	3.68%	4.47%	8.76%	3.68%	3.31%	5.39%
2001 TO 2010 Estimate PS DPS Book V	1.70%		1.26% 4 21%			•				3.09%
2001	7.38%	7.52%	6.77% 6.06%	-0.55%	5.22%	6.53%	8 26%	7 50%	4.34%	5.77%
	Atmos Energy Corp.	AGL Resources	Laclede Group	New Jelsey Nesources	Nocthweet Natural Gas	Notti West Natural Cas Diodmont Natural Gas	Couth foreav Industriae	Countract Con	WGL Holdings, Inc.	Comparable Companies' Averages

Sources: Value Line Investment Survey Standard & Poor's Earnings Guide Note: Standard & Poor's had no forecast for Laclede Group in December 2006

Response to KPSC Staff 2-44b

Dividend Growth Rate DCF Using 52-Week Share Prices

	Share P Low	^o rices High	2006 Dividend	52 Week Yields Low High	Yields High	2000-02 DPS	2009-11E DPS	Growth Rate	Cost of C Low	f Capital High
Atmos Energy Corp.	25.55	33.09	1.28	3.87%	5.01%	1.16	1.35	1.70%	5.57%	6.71%
AGL Resources	33.74	40.00	1.58	3.95%	4.68%	1.08	1.75	5.51%	9.46% 5.07%	10.19% 6.21%
Laclede Group Nawr Tersav Resources	28.89 41.49	37.51 53.16	1.43 1.50	3.81% 2.82%	4.95% 3.62%	1.34 1.17	1.70 1.70	4.21%	5.01 % 7.03%	7.82%
NICOR. Inc.	38.72	49.92	1.92	3.85%	4.96%	1.75	2.02	1.59%	5.43%	6.54%
Northwest Natural Gas	32.83	42.15	1.42	3.37%	4.33%	1.25	1.70	3.48%	6.84%	7.80%
Piedmont Natural Gas	23.21	28.38	1.00	3.52%	4.31%	0.76	1.17	4.91%	8.43%	9.22%
South Jersey Industries	25.63	34.26	0.96	2.80%	3.75%	0.74	1.15	5.02%	7.82%	8.77%
Southwest Gas	26.04	38.96	0.82	2.10%	3.15%	0.82	0.82	0.00%	2.10%	3.15%
WGL Holdings, Inc.	27.04	33.55	1.38	4.11%	5.10%	1.26	1.48	1.83%	5.95%	6.94%
Comparable Companies' Averages	30.84	39.77	1.33	3.37%	4.32%	1.13	1.48	3.09%	6.46%	7.40%

Sources: Value Line Investment Survey Wall Street Journal

Response to KPSC Staff 2-44b

Dividend Growth Rate DCF Using Current Share Prices

	Share Prices Low High	^o rices High	Current Dividend	Current ` Low	Yields High	2000-02 DPS	2009-11E DPS	Growth Rate	Cost of Capital Low High	apital High
Atmos Energy Corp.	32.20	32.59	1.28	3.93%	3.98%	1.16	1.35	1.70%	5.63%	5.68%
AGL Resources	38.47	39.00	1.58	4.05%	4.11%	1.08	1.75	5.51%	9.56% 5.47%	9.62% 5.32%
Laciede Group New Jersev Resources	51.32	51.94	1.50	2.89%	2.92%	1.17 1.17	1.70	4.21%	7.10% 7.09%	7.13%
NICOR, Inc.	48.92	49.53	1.92	3.88%	3.92%	1.75	2.02	1.59%	5.46%	5.51%
Northwest Natural Gas	40.68	41.35	1.42	3.43%	3.49%	1.25	1.70	3.48%	6.91%	6.97%
Piedmont Natural Gas	27.59	28.06	1.00	3.56%	3.62%	0.76	1.17	4.91%	8.47%	8.54%
South Jersey Industries	32.91	33.49	0.96	2.87%	2.92%	0.74	1.15	5.02%	7.89%	7.94%
Southwest Gas	37.38	38.04	0.82	2.16%	2.19%	0.82	0.82	0.00%	2.16%	2.19%
WGL Holdings, Inc.	32.82	33.29	1.38	4.15%	4.20%	1.26	1.48	1.83%	5.98%	6.04%
Comparable Companies' Averages	38.46	39.03	1.33	3.43%	3.48%	1.13	1.48	3.09%	6.52%	6.57%

Sources: Value Line Investment Survey Yahoo! FINANCE

Response to KPSC Staff 2-44b

Earnings Growth Rate DCF Using 52-Week Share Prices

	Share P Low	Prices High	2006 Dividend	52 Week Yields Low High	Yields High	2000-02 EPS	2009-11E EPS	Growth Rate	Cost of Capital Low High	Capital High
Atmos Energy Corp.	25.55	33.09	1.28	3.87%	5.01%	1.32	2.50	7.38%	11.25%	12.39%
AGI Resources	33.74	40.00	1.58	3.95%	4.68%	1.54	2.95	7.52%	11.47%	12.20%
l aclede Group	28.89	37.51	1.43	3.81%	4.95%	1.39	2.50	6.77%	10.58%	11.72%
Naw Jareav Resources	41.49	53.16	1.50	2.82%	3.62%	1.94	3.30	6.06%	8.88%	9.68%
	38.72	49.92	1.92	3.85%	4.96%	2.94	2.80	-0.55%	3.29%	4.41%
Northwest Natural Gas	32.83	42.15	1.42	3.37%	4.33%	1.76	2.85	5.48%	8.85%	9.80%
Diadmont Natural Gas	23.21	28.38	1.00	3.52%	4.31%	0.99	1.75	6.53%	10.06%	10.84%
Courth Tereov Industrias	25.63	34.26	0.96	2.80%	3.75%	1.15	2.35	8.26%	11.07%	12.01%
Courte Services	26.04	38.96	0.82	2.10%	3.15%	1.17	2.25	7.50%	9.61%	10.65%
WGL Holdings, Inc.	27.04	33.55	1.38	4.11%	5.10%	1.60	2.35	4.34%	8.45%	9.44%
Comparable Companies' Averages	30.84	39.77	1.33	3.37%	4.32%	1.61	2.57	5.77%	9.14%	10.08%
Comparable Companies' Averages without NICOR	ut NICOR Inc.	Ċ							9.87%	10.79%

Comparable Companies' Averages without NICOR Inc.

Sources: Value Line Investment Survey Wall Street Journal

Response to KPSC Staff 2-44b

Earnings Growth Rate DCF Using Current Share Prices

	Share Low	Share Prices _ow High	Current Dividend	Current Yields Low High	rields High	2000-02 EPS	2009-11E EPS	Growth Rate	Cost of Capital Low Higl	apital High
Atmos Energy Corp.	32.20	32.59	1.28	3.93%	3.98%	1.32	2.50	7.38%	11.31%	11.36%
AGL Resources	38.47	39.00	1.58	4.05% 2.04%	4.11%	1.54	2.95 2.50	7.52% 6.77%	11.57% 10.67%	11.62% 10 73%
Laclede Group New Jarsey Resources	50.00 51.32	51.94	1.50	2.89% 2.89%	2.92%	1.94	3.30	6.06%	8.95%	8.98%
NCOR Inc	48.92	49.53	1.92	3.88%	3.92%	2.94	2.80	-0.55%	3.32%	3.37%
Northwest Natural Gas	40.68	41.35	1.42	3.43%	3.49%	1.76	2.85	5.48%	8.91%	8.97%
Diadmont Natural Gas	27.59	28.06	1.00	3.56%	3.62%	0.99	1.75	6.53%	10.10%	10.16%
Courth Terreav Industrias	32.91	33.49	0.96	2.87%	2.92%	1.15	2.35	8.26%	11.13%	11.18%
Southweet Gae	37.38	38.04	0.82	2.16%	2.19%	1.17	2.25	7.50%	9.66%	9.70%
WGL Holdings, Inc.	32.82	33.29	1.38	4.15%	4.20%	1.60	2.35	4.34%	8.48%	8.54%
Comparable Companies' Averages	38.46	39.03	1.33	3.43%	3.48%	1.61	2.57	5.77%	9.20%	9.25%
Comparable Companies' Averages without NICOR Inc.	It NICOR	Inc.							9.93%	9.99%

Comparable Companies' Averages without NICOR Inc.

Sources: Value Line Investment Survey Yahoo! FINANCE

Response to KPSC Staff 2-44b

Projected Growth Rate DCF Using 52-Week Share Prices

	Share P Low	Prices High	2006 Dividend	52 Week Yields Low High	-	EPS Estimates Value Line S&P	nates S&P	Cost of Capital Low High	apital High
Atmos Energy Corp.	25.55	33.09	1.28	3.87%	5.01%	7.00%	6.00%	10.87%	12.01%
AGL Resources	33.74	40.00	1.58	3.95%	4.68%	4.50% 5.00%	4.00%	7.95%	9.18% 0.05%
Laclede Group New Tersey Resources	28.89 41.49	37.51 53.16	1.43 1.50	3.81% 2.82%	4.95% 3.62%	5.00% 4.50%	5.00%	0.01% 7.32%	9.93 % 8.62%
NICOR. Inc.	38.72	49.92	1.92	3.85%	4.96%	4.00%	4.00%	7.85%	8.96%
Northwest Natural Gas	32.83	42.15	1.42	3.37%	4.33%	7.00%	5.00%	8.37%	11.33%
Piedmont Natural Gas	23.21	28.38	1.00	3.52%	4.31%	6.00%	4.00%	7.52%	10.31%
South Jersev Industries	25.63	34.26	0.96	2.80%	3.75%	7.00%	6.00%	8.80%	10.75%
Southweet Gas	26.04	38.96	0.82	2.10%	3.15%	9.00%	3.00%	5.10%	12.15%
WGL Holdings, Inc.	27.04	33.55	1.38	4.11%	5.10%	1.50%	3.00%	5.61%	8.10%
Comparable Companies' Averages	30.84	39.77	1.33	3.37%	4.32%	5.39%	4.25%	7.48%	9.93%

Sources: Value Line Investment Survey Wall Street Journal Standard & Poor's Earnings Guide

Response to KPSC Staff 2-44b

Projected Growth Rate DCF Using Current Share Prices

	are	Prices	Current	Current Yields	'ields	EPS Estimates	mates c o D	Cost of Capital	apital Hinh
	Low	High	Dividend	LOW	uĝiu	value Line	L XO	LOW	IIĥILI
Atmos Energy Corp.	32.20	32.59	1.28	3.93%	3.98%	7.00%	6.00%	10.93%	10.98%
AGI Resources	38.47	39.00	1.58	4.05%	4.11%	4.50%	4.00%	8.05%	8.61%
l aclede Group	36.06	36.61	1.43	3.91%	3.97%	5.00%	NA	8.91%	8.97%
New Jersey Resources	51.32	51.94	1.50	2.89%	2.92%	4.50%	5.00%	7.39%	7.92%
NICOR Inc.	48.92	49.53	1.92	3.88%	3.92%	4.00%	4.00%	7.88%	7.92%
Northwest Natural Gas	40.68	41.35	1.42	3.43%	3.49%	7.00%	5.00%	8.43%	10.49%
Piedmont Natural Gas	27.59	28.06	1.00	3.56%	3.62%	6.00%	4.00%	7.56%	9.62%
South Jersey Industries	32.91	33.49	0.96	2.87%	2.92%	7.00%	6.00%	8.87%	9.92%
Southwest Gas	37.38	38.04	0.82	2.16%	2.19%	9.00%	3.00%	5.16%	11.19%
WGL Holdings, Inc.	32.82	33.29	1.38	4.15%	4.20%	1.50%	3.00%	5.65%	7.20%
Comparable Companies' Averages	38.46	39.03	1.33	3.43%	3.48%	5.39%	4.25%	7.54%	6.09%
Sources: Value Line Investment Survey Standard & Poor's Earnings Guide Yahoo! FINANCE									

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	52-Week High I	ek Low	Current High	nt Low	2007 Dividend	2000	2001	DIVIDENI 2002 2000-02	DIVIDENDS 2000-02
Atmos Energy Corp.	33.09	25.55	32.59	32.20	1.28	1.14	1.16	1.18	1.16
AGI Resolutions	40.00	33.74	39.00	38.47	1.58	1.08	1.08	1.08	1.08
l aclada Groun	37.51	28.89	36.61	36.06	1.43	1.34	1.34	1.34	1.34
Naw Jersey Resoluces	53.16	41.49	51.94	51.32	1.50	1.15	1.17	1.20	1.17
	49.92	38.72	49.53	48.92	1.92	1.66	1.76	1.84	1.75
Northwest Natural Gas	42.15	32.83	41.35	40.68	1.42	1.24	1.25	1.26	1.25
Diadmont Natural Gas	28.38	23.21	28.06	27.59	1.00	0.72	0.76	0.80	0.76
South Jersey Industries	34.26	25.63	33.49	32.91	0.96	0.73	0.74	0.75	0.74
Southwest Gas	38.96	26.04	38.04	37.38	0.82	0.82	0.82	0.82	0.82
WGL Holdings, Inc.	33.55	27.04	33.29	32.82	1.38	1.24	1.26	1.27	1.26
Comparable Companies' Averages	39.77	30.84	39.03	38.46	1.33	1.11	1.13	1.15	1.13

Sources : Value Line Investment Survey 9/15/2006 Wall Street Journal 12/7/2006

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s Energy Corporation se to KPSC Staff 2-44b 06 Cost of Capital

	2000	2001	EARNINGS 2002 2000-02	1	2009-11E 01	- 01 to 10 GR	2000
1.35 1.70%	1.03	1.47	1.45	1.32	2.50	7.38%	12.28
	1.29	1.50	1.82	1.54	2.95	7.52%	11.50
	1.37	1.61	1.18	1.39	2.50	6.77%	14.99
	1.79	1.95	2.09	1.94	3.30	6.06%	12.43
	2.94	3.01	2.88	2.94	2.80	-0.55%	15.56
	1.79	1.88	1.62	1.76	2.85	5.48%	17.93
	1.01	1.01	0.95	0.99	1.75	6.53%	8.26
	1.08	1.15	1.22	1.15	2.35	8.26%	7.25
	1.21	1.15	1.16	1.17	2.25	7.50%	16.82
1.48 1.83%	1.79	1.88	1.14	1.60	2.35	4.34%	15.31
1.48 3.09%	1.59	1.68	1.56	1.61	2.57	5.77%	13.34

		- BOOK V	BOOK VALUE		
	2001	2002 2000-02	00-02 20		01 to 10 GR
Atmos Energy Corp.	14.31	13.75	13.45	24.10	6.70%
AGI Resources	12.19	12.52	12.07	24.90	8.38%
l aclede Group	15.26	15.07	15.11	26.00	6.22%
New Jersey Resources	13.20	13.06	12.90	23.15	6.72%
NICOR Inc.	16.39	16.55	16.17	21.60	3.27%
Northwest Natural Gas	18.56	18.88	18.46	25.55	3.68%
Piedmont Natural Gas	8.63	8.91	8.60	12.75	4.47%
South Jersey Industries	7.81	9.67	8.24	17.55	8.76%
Southwest Gas	17.27	17.91	17.33	24.00	3.68%
WGL Holdings, Inc.	16.24	15.78	15.78	21.15	3.31%
Comparable Companies' Averages	13.95	14.26	13.85	21.85	5.39%
Sources : Value Line Investment Survey 9/15/2006 Wall Street Journal 12/7/2006					

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			Z							40.23	40.85	0.01		40.98	41.55				41.08			40.003
	-		Northwest Natural Gas	11:25	ШдП		40.17	71 JN	40.17	40.96	41.27		41.43	41.9	42 15	14 05	CA.14	41.83	41.69			41.352
					Mo		48.08	10.01	40.21	48.74	49.1		48.76	49.46	10 5	2.0	49.38	49.11	48.9	2		48.924
			AILOOR INC		High)	49.02	10.01	48.84	49.53	000	40.04	49.58	49.8	00.01	49.03	49.69	49.62	AD AG	10.10		49.529
				(esources	MO		EO B	0.00	50.96	E1 23		CC.1C	51.06	514		51.89	51.69	51.52	00 11	07.1C		51.318
				New Jersey Resources	Hinh	116111	00 11	08.16	51.5	E4 70	01.10	51.8	51 76	E1 96	00.10	52.54	52.14	52 08	00.00	52.05		51.937
					1 OW	LOW		37.18	37 32	10.10	31.88	38.32	38.11	20.11	20.00	39.12	30.55	V 00	1.00	39.21		38.474
				AGL Resources		High		37.73	00 20	00.10	38.58	28.83	20.00	30.01	39.33	39.72	20.02	20.02	39.93	39.55		38.998
				N Corn		Low		31.96		31.9	32.15	01 00	32.40	32.32	32.44	32 73	00.10	10.75	31.91	31.5		32.196
ices	200	uo		Atmos Energy Corp	עוווע בוואל	High		20 E1	10.20	32.09	32.63		32.78	32.75	32.86	20.00	32.03	32.87	32.7	31.0	2	32,594
Vahoo Einance Share Prices		Atmos Energy Corporation				Date			27-Nov-Ub	28-Nov-06	20 Nov-OG	00-001-07	30-Nov-06	1-Dec-06		4-DEC-00	5-Dec-06	6-Dec-06	7_Der_D6		8-Dec-00	Averade

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Yahoo Finance Share										
Autios Literay corpo	_									
		000 101.1	- f	Couthwast Gas	WGI Holdings Inc.	inds. Inc.	Laclede Group	Group	South Jersey Industries	r Industries
	Pleamont Natural Gas		1000			100	Lich	MO	Hiah	Low
Date	High	Low	High	Low	Ыgn		IIBII			
		27.07	36 98	36.32	33.18	32.33	36.74	35.83	33	32.02
27-Nov-06		10.12	00.00			32.3	36.19	35.6	32.6	32.01
28-Nov-06	27.53	20.9	31.11	20.00		0000	0 / 4	196	33 17	32.64
Annu-Nor-Oc	27.95	27.59	37.84	37.1	33.20	72.70	0.00	1.00	11.00	00 00
		27.66	37.87	37.42	33.3	32.9	36.79	36.39	55.55	60.20
90-70N-05		00.12	97 E7	36.77	33.08	32.33	36.51	35.85	33.48	32.8
1-Dec-06	G6.12	67.12	10.10			22.04	26.95	36.75	34.03	33.34
A Der-OR	28.12	27.73	38.38	37.34	33.42	10.24	C0.0C	24.00		
		27 90	38 96	38.29	33.55	33.25	36.88	36.4	34.26	33./8
5-Dec-06		00.00				33.29	36.67	36.42	33.94	33.65
6-Dec-06	20.30	20.02				23.12	36.41	36	33.73	33.2
7-Dec-06	28.44	28.05	38.63	38.21		20.12	11-00		00 00	27.01
8-Dec-06		27.53	38.53	37.83	33.35	32.85	36.22	27:05	00.00	10.70
		Allen								22 014
Averade	28.062	27.590	38.037	37.383	33.291	32.824	36.606	30.05	00.444	10.70

Comparable Gas Companies

Size Adjusted Capital Asset Pricing Model

	Risk Free Return	Beta	Equity Risk Premium	Adjusted Equity Risk Premium	Size Premium	Cost of Equity
Atmos Energy Corp.	4.78%	0.75	7.10%	5.33%	1.02%	11.13%
AGL Resources	4.78% 4.78%	0.95 0.85	7.10% 7.10%	6.75% 6.04%	1.02% 1.81%	12.55% 12.63%
Lacrede Croup New Jersey Resources	4.78%	0.80	7.10%	5.68%	1.81%	12.27%
NICOR. Inc.	4.78%	1.20	7.10%	8.52%	1.02%	14.32%
Northwest Natural Gas	4.78%	0.75	7.10%	5.33%	1.81%	11.92%
Piedmont Natural Gas	4.78%	0.80	7.10%	5.68%	1.02%	11.48%
South Jersev Industries	4.78%	0.70	7.10%	4.97%	1.81%	11.56%
Southwest Gas	4.78%	0.85	7.10%	6.04%	1.81%	12.63%
WGL Holdings, Inc.	4.78%	0.80	7.10%	5.68%	1.81%	12.27%
Comparable Companies' Average	4.78%	0.86	7.10%	6.07%	1.55%	12.40%

Sources : Value Line Investment Survey Ibbotson Associates 2006 SBBI Yearbook: Valuation Edition Federal Reserve Statistical Release

Comparable Gas Companies

Historical Capital Asset Pricing Model

	L Market Total Returns	-ong-Term Corporate Bonds Return	Risk Premium	Beta			Cost of Equity
Atmos Energy Corp.	14.85%	6.20%	8.65%	0.75	6.49%		11.82%
AGI Resoluces	14.85%	6.20%	8.65%		8.22%	5.33%	13.55%
l sclada Groun	14.85%	6.20%	8.65%	0.85	7.35%	-	12.68%
Lacieue Oloup Now Jersey Resolutres	14.85%	6.20%	8.65%	0.80	6.92%		12.25%
NEW JOI JPC	14.85%	6.20%	8.65%	1.20	10.38%	-	15.71%
NICOTA IIIC. Northweet Natiural Gas	14.85%	6.20%	8.65%	0.75	6.49%		11.82%
Nultiwest Natural Cas Diodmont Natural Gas	14 85%	6.20%	8.65%	0.80	6.92%		12.25%
Courth Terrear Industriae	14 85%	6.20%	8.65%	0.70	6.06%		11.39%
outh versey industries Conthined Cas	14 85%	6.20%	8.65%	0.85	7.35%		12.68%
WGL Holdings, Inc.	14.85%	6.20%	8.65%	0.80	6.92%		12.25%
Comparable Companies' Average	14.85%	6.20%	8.65%	0.86	7.40%	5.33%	12.73%

Sources : Value Line Investment Survey Ibbotson Associates 2006 SBBI Yearbook: Valuation Edition Federal Reserve Statistical Release

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 45 Witness: Don Murry

Data Request:

Refer to the Murry Testimony, pages 36 and 37, including footnote 10, and Schedules DAM-24 and DAM-25. Provide a copy of the relevant pages from the Ibbotson Associates' "Stock, Bonds, Bills, and Inflation: 2006 Yearbook Valuation Edition" that discuss the need for, and describe the method of, the small company adjustment used by Dr. Murry.

Response:

Please refer to the attached document labeled Case 2006-00464 KPSC DR-45 ATT1 Firm Size.



The Firm Size Phenomenon

One of the most remarkable discoveries of modern finance is that of a relationship between firm size and return. The relationship cuts across the entire size spectrum but is most evident among smaller companies, which have higher returns on average than larger ones. Many studies have looked at the effect of firm size on return.¹ In this chapter, the returns across the entire range of firm size are examined.

Construction of the Decile Portfolios

The portfolios used in this chapter are those created by the Center for Research in Security Prices (CRSP) at the University of Chicago's Graduate School of Business. CRSP has refined the methodology of creating size-based portfolios and has applied this methodology to the entire universe of NYSE/AMEX/NASDAQ-listed securities going back to 1926.

The New York Stock Exchange universe excludes closed-end mutual funds, preferred stocks, real estate investment trusts, foreign stocks, American Depository Receipts, unit investment trusts, and Americus Trusts. All companies on the NYSE are ranked by the combined market capitalization of their eligible equity securities. The companies are then split into 10 equally populated groups, or deciles. Eligible companies traded on the American Stock Exchange (AMEX) and the Nasdaq National Market (NASDAQ) are then assigned to the appropriate deciles according to their capitalization in relation to the NYSE breakpoints. The portfolios are rebalanced, using closing prices for the last trading day of March, June, September, and December. Securities added during the quarter are assigned to the appropriate portfolio when two consecutive month-end prices are available. If the final NYSE price of a security that becomes delisted is a month-end price, then that month's return is included in the quarterly return of the security's portfolio. When a month-end NYSE price is missing, the month-end value of the security is derived from merger terms, quotations on regional exchanges, and other sources. If a month-end value still is not determined, the last available daily price is used.

Base security returns are monthly holding period returns. All distributions are added to the month-end prices, and appropriate price adjustments are made to account for stock splits and dividends. The return on a portfolio for one month is calculated as the weighted average of the returns for its individual stocks. Annual portfolio returns are calculated by compounding the monthly portfolio returns.

Size of the Deciles

Table 7-1 reveals that the top three deciles of the NYSE/AMEX/NASDAQ account for most of the total market value of its stocks. Nearly two-thirds of the market value is represented by the first decile, which currently consists of 169 stocks, while the smallest decile accounts for just over

¹ Rolf W. Banz was the first to document this phenomenon. See Banz, Rolf W. "The Relationship Between Returns and Market Value of Common Stocks," *Journal of Financial Economics*, Vol. 9, 1981, pp. 3-18.

one percent of the market value. The data in the second column of Table 7-1 are averages across all 80 years. Of course, the proportion of market value represented by the various deciles varies from year to year.

Columns three and four give recent figures on the number of companies and their market capitalization, presenting a snapshot of the structure of the deciles near the end of 2005.

Table 7-1

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Size-Decile Portfolios of the NYSE/AMEX/NASDAQ Size and Composition 1926 through September 30, 2005

Decile	Historical Average Percentage of Total Capitalization	Recent Number of Companies	Recent Decile Market Capitalization (in thousands)	Recent Percentage of Total Capitalization
1-largest	63.29%	169	\$8,869,801,117	60.92%
2	13.97%	182	2,025,323,685	13.91%
3	7.57%	195	1,074,448,763	7.38%
4	4.74%	206	656,297,080	4.51%
5	3.24%	207	452,329,097	3.11%
6	2.37%	238	389,595,517	2.68%
7	1.73%	299	319,642,175	2.20%
8	1.28%	352	287,783,718	1.98%
9	0.99%	693	268,738,291	1.85%
10-Smallest	0.81%	1,746	216,334,858	1.49%
Mid-Cap 3-5	15.55%	608	2,183,074,940	14.99%
Low-Cap 6-8	5.39%	889	997,021,410	6.85%
Micro-Cap 9-10	1.80%	2,439	485,073,149	3.33%

Source: © 200603 CRSP® Center for Research in Security Prices. Graduate School of Business, The University of Chicago. Used with permission. All rights reserved, www.crsp.uchicago.edu.

Historical average percentage of total capitalization shows the average, over the last 80 years, of the decile market values as a percentage of the total NYSE/AMEX/NASDAQ calculated each month. Number of companies in deciles, recent market capitalization of deciles, and recent percentage of total capitalization are as of September 30, 2005.

Table 7-2 gives the current breakpoints that define the composition of the NYSE/AMEX/NASDAQ size deciles. The largest company and its market capitalization are presented for each decile. Table 7-3 shows the historical breakpoints for each of the three size groupings presented throughout this chapter. Mid-cap stocks are defined here as the aggregate of deciles 3–5. Based on the most recent data (Table 7-2), companies within this mid-cap range have market capitalizations at or below \$7,187,244,000 but greater than \$1,728,888,000. Low-cap stocks include deciles 6–8 and currently include all companies in the NYSE/AMEX/NASDAQ with market capitalizations at or below \$1,728,888,000 but greater than \$586,393,000. Micro-cap stocks include deciles 9–10 and include companies with market capitalizations at or below \$586,393,000. The market capitalization of the smallest company included in the micro-capitalization group is currently \$1,079,000.

Table 7-2

Size-Decile Portfolios of the NYSE/AMEX/NASDAQ, Largest Company and Its Market Capitalization by Decile September 30, 2005

Decile	Market Capitalization of Largest Company (in thousands)	Company Name
1-Largest	\$367,495,144	General Electric Co.
2	16,016,450	Entergy Corp.
3	7,187,244	Chesapeake Energy Corp.
4	3,961,425	Ball Corp.
5	2,519,280	Celenese Corp.
6	1,728,888	AGCO Corp.
7	1,280,966	ESCO Technologies Inc.
8	872,103	West Pharmaceutical Services Inc.
9	586,393	General Cable Corp.
10-Smallest	264,981	4Kids Entertainment Inc.

Source: Center for Research in Security Prices, University of Chicago.

Presentation of the Decile Data

Summary statistics of annual returns of the 10 deciles over 1926–2005 are presented in Table 7-4. Note from this exhibit that both the average return and the total risk, or standard deviation of annual returns, tend to increase as one moves from the largest decile to the smallest. Furthermore, the serial correlations of returns are near zero for all but the smallest two deciles. Serial correlations and their significance will be discussed in detail later in this chapter.

Graph 7-1 depicts the growth of one dollar invested in each of three NYSE/AMEX/NASDAQ groups broken down into mid-cap, low-cap, and micro-cap stocks. The index value of the entire NYSE/AMEX/NASDAQ is also included. All returns presented are value-weighted based on the market capitalizations of the deciles contained in each subgroup. The sheer magnitude of the size effect in some years is noteworthy. While the largest stocks actually declined 9 percent in 1977, the smallest stocks rose more than 20 percent. A more extreme case occurred in the depression-recovery year of 1933, when the difference between the first and tenth decile returns was far more substantial, with the largest stocks rising 46 percent, and the smallest stocks rising 224 percent. This divergence in the performance of small and large company stocks is a common occurrence.

Table 7-3

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Size-Decile Portfolios of the NYSE/AMEX/NASDAQ

Largest and Smallest Company by Size Group

from 1926 to1965

	Capitaliza	tion of Larges (in thousands	Capitalization of Smallest Company (in thousands)			
Date (Sept 30)	Mid-Cap 3-5	Low-Cap 6-8	Micro-Cap 9-10	Mid-Cap 3-5	Low-Cap 6-8	Micro-Cap 9-10
1926	\$61,490	\$14,040	\$4,305	\$14,100	\$4,325	\$43
1927	\$65,281	\$14,746	\$4,450	\$15,311	\$4,496	\$72
1928	\$81,998	\$18,975	\$5,074	\$19,050	\$5,119	\$135
1929	\$107,085	\$24,328	\$5,875	\$24,480	\$5,915	\$126
1930	\$67,808	\$13,050	\$3,219	\$13,068	\$3,264	\$30
1931	\$42,607	\$8,142	\$1,905	\$8,222	\$1,927	\$15
1932	\$12,431	\$2,170	\$473	\$2,196	\$477	\$19
1933	\$40,298	\$7,210	\$1,830	\$7,280	\$1,875	\$100
1934	\$38,129	\$6,669	\$1,669	\$6,734	\$1,673	\$68
1935	\$37,631	\$6,519	\$1,350	\$6,549	\$1,383	\$38
1936	\$46,920	\$11,505	\$2,660	\$11,526	\$2,668	\$98
1937	\$51,750	\$13,601	\$3,500	\$13,635	\$3,539	\$68
1938	\$36,102	\$8,325	\$2,125	\$8,372	\$2,145	\$60
1939	\$35,784	\$7,367	\$1,697	\$7,389	\$1,800	\$75
1940	\$31,050	\$7,990	\$1,861	\$8,007	\$1,872	\$51
1941	\$31,744	\$8,316	\$2,086	\$8,336	\$2,087	\$72
1942	\$26,135	\$6,870	\$1,779	\$6,875	\$1,788	\$82
1943	\$43,218	\$11,475	\$3,847	\$11,480	\$3,903	\$395
1944	\$46,621	\$13,066	\$4,800	\$13,068	\$4,812	\$309
1945	\$55,268	\$17,325	\$6,413	\$17,575	\$6,428	\$225
1946	\$79,158	\$24,192	\$10,013	\$24,199	\$10,051	\$829
1947	\$57,830	\$17,735	\$6,373	\$17,872	\$6,380	\$747
1948	\$67,238	\$19,575	\$7,313	\$19,651	\$7,329	\$784
1949	\$55,506	\$14,549	\$5,037	\$14,577	\$5,108	\$379
1950	\$65,881	\$18,675	\$6,176	\$18,750	\$6,201	\$303
1951	\$82,517	\$22,750	\$7,567	\$22,860	\$7,598	\$668
1952	\$97,936	\$25,452	\$8,428	\$25,532	\$8,480	\$480
1953	\$98,595	\$25,374	\$8,156	\$25,395	\$8,168	\$459
1954	\$125,834	\$29,645	\$8,484	\$29,707	\$8,488	\$463
1955	\$170,829	\$41,445	\$12,353	\$41,681	\$12,366	\$553
1956	\$183,434	\$46,805	\$13,481	\$46,886	\$13,524	\$1,122
1957	\$192,861	\$47,658	\$13,844	\$48,509	\$13,848	\$925
1958	\$195,083	\$46,774	\$13,789	\$46,871	\$13,816	\$550
1959	\$253,644	\$64,221	\$19,500	\$64,372	\$19,548	\$1,804
1960	\$246,202	\$61,485	\$19,344	\$61,529	\$19,385	\$831
1961	\$296,261	\$79,058	\$23,562	\$79,422	\$23,613	\$2,455
1962	\$250,433	\$58,866	\$18,952	\$59,143	\$18,968	\$1,018
1963	\$308,438	\$71,846	\$23,819	\$71,971	\$23,822	\$296
1964	\$344,033	\$79,343	\$25,594	\$79,508	\$25,595	\$223
1965	\$363,759	\$84,479	\$28,365	\$84,600	\$28,375	\$250

Source: Center for Research in Security Prices, University of Chicago.

Table 7-3 (continued)

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Size-Decile Portfolios of the NYSE/AMEX/NASDAQ

Largest and Smallest Company by Size Group

from 1966 to 2005

	on of Smalle (in thousand)			Capitalization of Largest Company (in thousands)				
Micro-Ca 9-1	Low-Cap 6-8	Mid-Cap 3-5	Micro-Cap 9-10	Low-Cap 6-8	Mid-Cap 3-5	Date (Sept 30)		
\$38	\$34,966	\$99,935	\$34,884	\$99,578	\$399,455	1966		
\$38	\$42,313	\$118,329	\$42,267	\$117,985	\$459,170	1967		
\$59	\$60,397	\$150,128	\$60,351	\$149,261	\$528,326	1968		
\$2,11	\$54,280	\$145,684	\$54,273	\$144,770	\$517,452	1969		
\$82	\$29,916	\$94,047	\$29,910	\$94,025	\$380,246	1970		
\$86	\$45,589	\$145,673	\$45,571	\$145,340	\$542,517	1971		
\$1,03	\$46,757	\$139,710	\$46,728	\$139,647	\$545,211	1972		
\$56	\$29,606	\$95,378	\$29,601	\$94,809	\$424,584	1973		
\$44	\$22,481	\$75,853	\$22,475	\$75,272	\$344,013	1974		
\$54	\$28,144	\$97,266	\$28,140	\$96,954	\$465,763	1975		
\$56	\$32,002	\$116,212	\$31,987	\$116,184	\$551,071	1976		
\$51	\$39,254	\$137,323	\$39,192	\$135,804	\$573,084	1977		
\$83	\$46,629	\$160,524	\$46,621	\$159,778	\$572,967	1978		
\$94	\$49,172	\$174,517	\$49,088	\$174,480	\$661,336	1979		
\$54	\$48,953	\$194,241	\$48,671	\$194,012	\$754,562	1980		
\$1,44	\$71,289	\$261,059	\$71,276	\$259,028	\$954,665	1981		
\$1,06	\$54,883	\$206,536	\$54,675	\$205,590	\$762,028	1982		
\$2,02	\$103,530	\$352,944	\$103,443	\$352,698	\$1,200,680	1983		
\$2,0	\$90,659	\$315,214	\$90,419	\$314,650	\$1,068,972	1984		
\$76	\$94,000	\$368,249	\$93,810	\$367,413	\$1,432,342	1985		
\$70	\$109,975	\$445,648	\$109,956	\$444,827	\$1,857,621	1986		
\$1,2	\$112,125	\$468,948	\$112,035	\$467,430	\$2,059,143	1987		
\$69	\$94,302	\$421,340	\$94,268	\$420,257	\$1,957,926	1988		
\$9	\$100,384	\$483,623	\$100,285	\$480,975	\$2,147,608	1989		
\$1:	\$93,750	\$474,065	\$93,627	\$472,003	\$2,164,185	1990		
\$2	\$87,733	\$458,853	\$87,586	\$457,958	\$2,129,863	1991		
\$5	\$103,500	\$501,050	\$103,352	\$500,346	\$2,428,671	1992		
\$60	\$137,987	\$608,825	\$137,945	\$608,520	\$2,711,068	1993		
\$59	\$149,532	\$602,552	\$149,435	\$601,552	\$2,497,073	1994		
\$1	\$158,063	\$654,019	\$158,011	\$653,178	\$2,793,761	1995		
\$1,04	\$195,326	\$763,812	\$195,188	\$763,377	\$3,150,685	1996		
\$4	\$230,554	\$821,028	\$230,472	\$818,299	\$3,511,132	1997		
\$1,6	\$253,336	\$936,727	\$253,329	\$934,264	\$4,216,707	1998		
\$1,50	\$218,368	\$875,582	\$218,336	\$875,309	\$4,251,741	1999		
\$1,40	\$192,721	\$840,730	\$192,598	\$840,000	\$4,143,902	2000		
\$4	\$270,391	\$1,115,200	\$269,275	\$1,114,792	\$5,252,063	2001		
\$50	\$314,174	\$1,144,452	\$314,042	\$1,143,845	\$5,012,705	2002		
\$3	\$330,797	\$1,167,040	\$330,608	\$1,166,799	\$4,794,027	2003		
\$1,3	\$506,410	\$1,607,931	\$505,437	\$1,607,854	\$6,241,953	2004		
\$1,0	\$587,243	\$1,729,364	\$586,393	\$1,728,888	\$7,187,244	2005		

Source: Center for Research in Security Prices, University of Chicago.

Table	7-4
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Size-Decile Portfolios of the NYSE/AMEX/NASDAQ, Summary Statistics of Annual Returns 1926-2005

Decile	Geometric Mean	Arithmetic Mean	Standard Deviation	Serial Correlation
1-Largest	9.5	11.3	19.17	0.09
2	10.9	13.2	21.86	0.03
3	11.3	13.8	23.66	-0.02
4	11.3	14.3	25.94	-0.02
5	11.6	14.9	26.78	-0.02
6	11.8	15.3	27.84	0.04
7	11.6	15.6	29.99	0.01
8	11.8	16.6	33.47	0.04
9	12.0	17.5	36.55	0.05
10-Smallest	14.0	21.6	45,44	0.15
Mid-Cap, 3-5	11.4	14.2	24.74	-0.02
Low-Cap, 6-8	11.7	15.7	29.52	0.03
Micro-Cap, 9-10	12.7	18.8	39.16	0.08
NYSE/AMEX/NASDAQ				
Total Value-Weighted Index	10.1	12.0	20.21	0.03

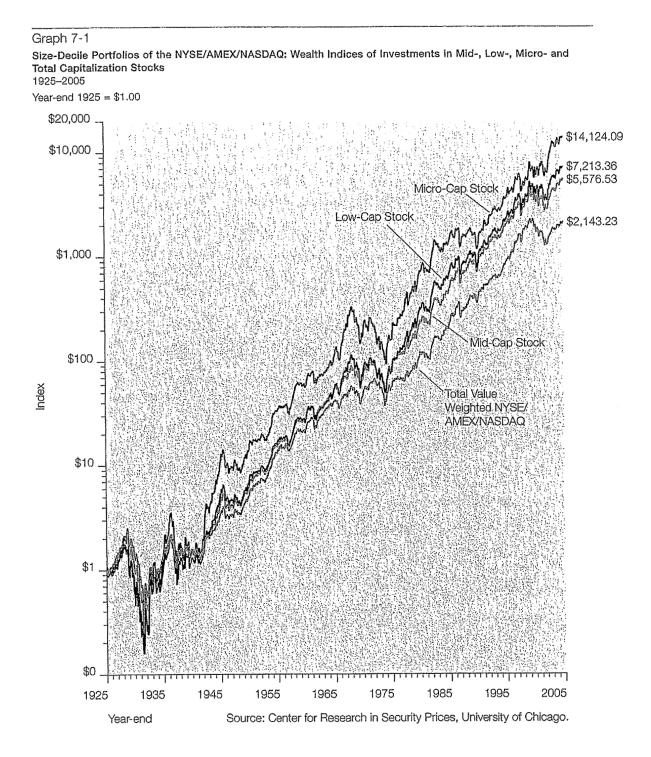
Source: Center for Research in Security Prices, University of Chicago.

Aspects of the Firm Size Effect

The firm size phenomenon is remarkable in several ways. First, the greater risk of small stocks does not, in the context of the capital asset pricing model (CAPM), fully account for their higher returns over the long term. In the CAPM only systematic, or beta risk, is rewarded; small company stocks have had returns in excess of those implied by their betas.

Second, the calendar annual return differences between small and large companies are serially correlated. This suggests that past annual returns may be of some value in predicting future annual returns. Such serial correlation, or autocorrelation, is practically unknown in the market for large stocks and in most other equity markets but is evident in the size premia.

Third, the firm size effect is seasonal. For example, small company stocks outperformed large company stocks in the month of January in a large majority of the years. Such predictability is surprising and suspicious in light of modern capital market theory. These three aspects of the firm size effect—long-term returns in excess of systematic risk, serial correlation, and seasonality—will be analyzed thoroughly in the following sections.



Long-Term Returns in Excess of Systematic Risk

The capital asset pricing model (CAPM) does not fully account for the higher returns of small company stocks. Table 7-5 shows the returns in excess of systematic risk over the past 80 years for each decile of the NYSE/AMEX/NASDAQ. Recall that the CAPM is expressed as follows:

 $k_s = r_f + (\beta_s \times ERP)$

Table 7-5 uses the CAPM to estimate the return in excess of the riskless rate and compares this estimate to historical performance. According to the CAPM, the expected return on a security should consist of the riskless rate plus an additional return to compensate for the systematic risk of the security. The return in excess of the riskless rate is estimated in the context of the CAPM by multiplying the equity risk premium by β (beta). The equity risk premium is the return that compensates investors for taking on risk equal to the risk of the market as a whole (systematic risk).² Beta measures the extent to which a security or portfolio is exposed to systematic risk.³ The beta of each decile indicates the degree to which the decile's return moves with that of the overall market.

A beta greater than one indicates that the security or portfolio has greater systematic risk than the market; according to the CAPM equation, investors are compensated for taking on this additional risk. Yet, Table 7-5 illustrates that the smaller deciles have had returns that are not fully explained by their higher betas. This return in excess of that predicted by CAPM increases as one moves from the largest companies in decile 1 to the smallest in decile 10. The excess return is especially pronounced for micro-cap stocks (deciles 9–10). This size-related phenomenon has prompted a revision to the CAPM, which includes a size premium. Chapter 4 presents this modified CAPM theory and its application in more detail.

This phenomenon can also be viewed graphically, as depicted in the Graph 7-2. The security market line is based on the pure CAPM without adjustment for the size premium. Based on the risk (or beta) of a security, the expected return lies on the security market line. However, the actual historic returns for the smaller deciles of the NYSE/AMEX/NASDAQ lie above the line, indicating that these deciles have had returns in excess of that which is appropriate for their systematic risk.

² The equity risk premium is estimated by the 80-year arithmetic mean return on large company stocks, 12.30 percent, less the 80-year arithmetic mean income-return component of 20-year government bonds as the historical riskless rate, in this case 5.22 percent. (It is appropriate, however, to match the maturity, or duration, of the riskless asset with the investment horizon.) See Chapter 5 for more detail on equity risk premium estimation.

³ Historical betas were calculated using a simple regression of the monthly portfolio (decile) total returns in excess of the 30-day U.S. Treasury bill total returns versus the S&P 500 total returns in excess of the 30-day U.S. Treasury bill, January 1926-December 2005. See Chapter 6 for more detail on beta estimation.

Table 7-5

Long-Term Returns in Excess of CAPM Estimation for Decile Portfolios of the NYSE/AMEX/NASDAQ 1926-2005

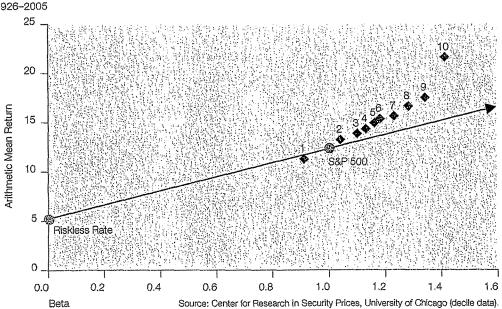
Decile	Beta*	Arithmetic Mean Return	Realized Return in Excess of Riskless Rate**	Estimated Return in Excess of Riskless Rate†	Size Premlum (Return in Excess of CAPM)
1-Largest	0.91	11.29%	6.07%	6,45%	-0.37%
2	1.04	13.22%	8.00%	7.33%	0.67%
3	1.10	13.84%	8.62%	7.77%	0.85%
4	1.13	14.31%	9.09%	7.98%	1.10%
5	1.16	14.91%	9.69%	8.20%	1.49%
6	1.18	15.33%	10.11%	8.38%	1.73%
7	1.23	15.62%	10.40%	8.73%	1.67%
8	1.28	16.60%	11.38%	9.05%	2.33%
9	1.34	17.48%	12.26%	9.50%	2.76%
10-Smallest	1.41	21.59%	16.37%	10.01%	6.36%
Mid-Cap, 3-5	1.12	14.15%	8.94%	7.91%	1.02%
Low-Cap, 6-8	1.22	15.66%	10.44%	8.63%	1.81%
Micro-Cap, 9-10	1.36	18.77%	13.55%	9.61%	3.95

*Betas are estimated from monthly portfolio total returns in excess of the 30-day U.S. Treasury bill total return versus the S&P 500 total returns in excess of the 30-day U.S. Treasury bill, January 1926–December 2005.

**Historical riskless rate is measured by the 80-year arithmetic mean income return component of 20-year government bonds (5.22 percent).

†Calculated in the context of the CAPM by multiplying the equity risk premium by beta. The equity risk premium is estimated by the arithmetic mean total return of the S&P 500 (12.30 percent) minus the arithmetic mean income return component of 20-year government bonds (5.22 percent) from 1926–2005.

Graph 7-2



Security Market Line versus Size-Decile Portfolios of the NYSE/AMEX/NASDAQ 1926-2005

Further Analysis of the 10th Decile

The size premia presented thus far do a great deal to explain the return due solely to size in publicly traded companies. However, by splitting the 10th decile into two size groupings we can get a closer look at the smallest companies. This magnification of the smallest companies will demonstrate whether the company size to size premia relationship continues to hold true.

As previously discussed, the method for determining the size groupings for size premia analysis was to take the stocks traded on the NYSE and break them up into 10 deciles, after which stocks traded on the AMEX and NASDAQ were allocated into the same size groupings. This same methodology was used to split the 10th decile into two parts: 10a and 10b, with 10b being the smaller of the two. This is equivalent to breaking the stocks down into 20 size groupings, with portfolios 19 and 20 representing 10a and 10b.

Table 7-7 shows that the pattern continues; as companies get smaller their size premium increases. There is a noticeable increase in size premium from 10a to 10b, which can also be demonstrated visually in Graph 7-3. This can be useful in valuing companies that are extremely small. Table 7-6 presents the size, composition, and breakpoints of deciles 10a and 10b. First, the recent number of companies and total decile market capitalization are presented. Then the largest company and its market capitalization are presented.

Breaking the smallest decile down lowers the significance of the results compared to results for the 10th decile taken as a whole, however. The same holds true for comparing the 10th decile with the Micro-Cap aggregation of the 9th and 10th deciles. The more stocks included in a sample the more significance can be placed on the results. While this is not as much of a factor with the recent years of data, these size premia are constructed with data back to 1926. By breaking the 10th decile down into smaller components we have cut the number of stocks included in each grouping. The change over time of the number of stocks included in the 10th decile for the NYSE/AMEX/NASDAQ is presented in Table 7-8. With fewer stocks included in the analysis early on, there is a strong possibility that just a few stocks can dominate the returns for those early years.

While the number of companies included in the 10th decile for the early years of our analysis is low, it is not too low to still draw meaningful results even when broken down into subdivisions 10a and 10b. All things considered, size premia developed for deciles 10a and 10b are significant and can be used in cost of capital analysis. These size premia should greatly enhance the development of cost of capital analysis for very small companies.

Table 7-6

Size-Decile Portfolios 10a and 10b of the NYSE/AMEX/NASDAQ, Largest Company and Its Market Capitalization September 30, 2005

Decile	Recent Number of Companies	Recent Decile Market Capitalization (in thousands)	Market Capitalization of Largest Company (in thousands)	Company Name
10a	483	\$108,194,821	\$264,981	4Kids Entertaint Inc.
10b	1,279	\$102,157,012	\$169,195	Quaker Chemical Corp.

Note: These numbers may not aggregate to equal decile 10 figures. Source: Center for Research in Security Prices, University of Chicago.

Table 7-7

Long-Term Returns in Excess of CAPM Estimation for Decile Portfolios of the NYSE/AMEX/NASDAQ, with 10th Decile Split

1926-2005

	Beta*	Arithmetic Mean Return	Realized Return in Excess of Riskless Rate**	Estimated Return in Excess of Riskless Rate†	Size Premium (Return in Excess of CAPM)
1-Largest	0.91	11.29%	6.07%	6.45%	0.37%
2	1.04	13.22%	8.00%	7.33%	0.67%
3	1.10	13.84%	8.62%	7.77%	0.85%
4	1.13	14.31%	9.09%	7.98%	1.10%
5	1.16	14.91%	9.69%	8.20%	1.49%
6	1.18	15.33%	10,11%	8.38%	1.73%
7	1.23	15.62%	10.40%	8.73%	1.67%
8	1.28	16.60%	11.38%	9.05%	2.33%
9	1.34	17.48%	12.26%	9.50%	2.76%
10a	1.43	19.71%	14.49%	10.10%	4.39%
10b-Smallest	1.39	24.87%	19.65%	9.82%	9.83%
Mid-Cap, 3-5	1,12	14.15%	8.94%	7.91%	1.02%
Low-Cap, 6-8	1.22	15.66%	10.44%	8.63%	1.81%
Micro-Cap, 9-10	1.36	18.77%	13.55%	9.61%	3.95%

*Betas are estimated from monthly portfolio total returns in excess of the 30-day U.S. Treasury bill total return versus the S&P 500 total returns in excess of the 30-day U.S. Treasury bill, January 1926–December 2005.

**Historical riskless rate is measured by the 80-year arithmetic mean income return component of 20-year government bonds (5.22 percent).

†Calculated in the context of the CAPM by multiplying the equity risk premium by beta. The equity risk premium is estimated by the arithmetic mean total return of the S&P 500 (12.30 percent) minus the arithmetic mean income return component of 20-year government bonds (5.22 percent) from 1926–2005.

Graph 7-3

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Security Market Line versus Size-Decile Portfolios of the NYSE/AMEX/NASDAQ, with 10th Decile Split 1926-2005

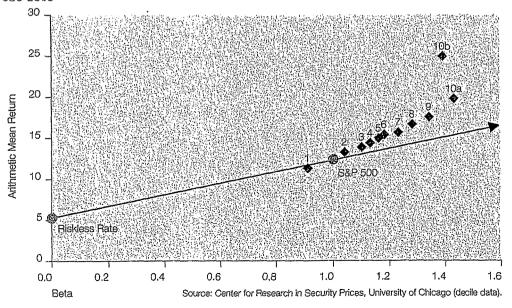


Table 7-8	
Historical Number of Companies for NYSE/AMEX/NASDAQ Decile 10	

Sept.	Number of Companies
1926	52*
1930	72
1940	78
1950	100
1960	109
1970	865
1980	685
1990	1,814
2000	1,927
2005	1,746

*The fewest number of companies was 49 in March, 1926

Source: Center for Research in Security Prices, University of Chicago.

Alternative Methods of Calculating the Size Premia

The size premia estimation method presented above makes several assumptions with respect to the market benchmark and the measurement of beta. The impact of these assumptions can best be examined by looking at some alternatives. In this section we will examine the impact on the size premia of using a different market benchmark for estimating the equity risk premia and beta. We will also examine the effect on the size premia study of using sum beta or an annual beta.⁴

Changing the Market Benchmark

In the original size premia study, the S&P 500 is used as the market benchmark in the calculation of the realized historical equity risk premium and of each size group's beta. The NYSE total value-weighted index is a common alternative market benchmark used to calculate beta. Table 7-9 uses this market benchmark in the calculation of beta. In order to isolate the size effect, we require an equity risk premium based on a large company stock benchmark. The NYSE deciles 1-2 large company index offers a mutually exclusive set of portfolios for the analysis of the smaller company groups: mid-cap deciles 3-5, low-cap deciles 6-8, and micro-cap deciles 9-10. The size premia analyses using these benchmarks are summarized in Table 7-9 and depicted graphically in Graph 7-4.

For the entire period analyzed, 1926–2005, the betas obtained using the NYSE total valueweighted index are higher than those obtained using the S&P 500. Since smaller companies had higher betas using the NYSE benchmark, one would expect the size premia to shrink. However, as was illustrated in Chapter 5, the equity risk premium calculated using the NYSE deciles 1–2 benchmark results in a value of 6.33, as opposed to 7.08 when using the S&P 500. The effect of the higher betas and lower equity risk premium cancel each other out, and the resulting size premia in Table 7-9 are slightly higher than those resulting from the original study.

⁴ Sum beta is the method of beta estimation described in Chapter 6 that was developed to better account for the lagged reaction of small stocks to market movements. The sum beta methodology was developed for the same reason that the size premia were developed; small company betas were too small to account for all of their excess returns.

Table 7-9

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Long-Term Returns in Excess of CAPM Estimation for Decile Portfollos of the NYSE/AMEX/NASDAQ, with NYSE Market Benchmarks 1926–2005

Decile	Beta*	Arithmetic Mean Return	Realized Return in Excess of Riskless Rate**	Estimated Return in Excess of Riskless Rate†	Size Premium (Return in Excess of CAPM)
1-Largest	0.94	11,29%	6.07%	5.98%	0.10%
2	1.09	13.22%	8.00%	6.91%	1.09%
3	1.16	13.84%	8.62%	7.32%	1.30%
4	1.20	14.31%	9,09%	7.57%	1,52%
5	1.23	14.91%	9.69%	7,77%	1.92%
6	1.26	15.33%	10,11%	7.98%	2.14%
7	1.32	15.62%	10.40%	8.34%	2.06%
8	1.37	16.60%	11.38%	8.68%	2.70%
9	1,44	17.48%	12.26%	9.11%	3.15%
10-Smallest	1,52	21.59%	16.37%	9.63%	6.74%
Mid-Cap, 3-5	1.18	14.15%	8,94%	7.47%	1.46%
Low-Cap, 6-8	1 30	15.66%	10.44%	8.23%	2.21%
Micro-Cap, 9-10	1.46	18.77%	13.55%	9.22%	4.33%

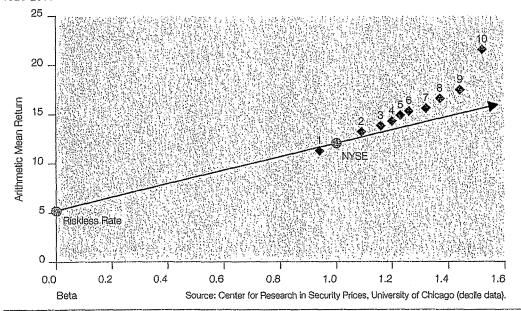
*Betas are estimated from monthly portfolio total returns in excess of the 30-day U.S. Treasury bill total return versus the NYSE total capitalization-weighted index total returns in excess of the 30-day U.S. Treasury bill, January 1926–December 2005,

**Historical riskless rate is measured by the 80-year arithmetic mean income return component of 20-year government bonds (5.22 percent).

†Calculated in the context of the CAPM by multiplying the equity risk premium by beta. The equity risk premium is estimated by the arithmetic mean total return of the NYSE deciles 1–2 (11.55 percent) minus the arithmetic mean income return component of 20-year government bonds (5.22 percent) from 1926–2005.

Graph 7-4

Security Market Line versus Size-Decile Portfolios of the NYSE/AMEX/NASDAQ with NYSE Market Benchmarks 1926-2005



Measuring Beta with Sum Beta

The sum beta method attempts to provide a better measure of beta for small stocks by taking into account their lagged price reaction to movements in the market. [See Chapter 6.] Table 7-10 shows that using this method of beta estimation results in larger betas for the smaller size deciles of the NYSE/AMEX/NASDAQ while those of the larger size deciles remain relatively stable. From these results, it appears that the sum beta method corrects for possible errors that are made when estimating small company betas without adjusting for the lagged price reaction of small stocks. However, the sum beta, when applied to the CAPM, still does not account for all of the returns in excess of the riskless rate historically found for small stocks. Table 7-10 demonstrates that a size premium is still necessary to estimate the expected returns using sum beta in conjunction with the CAPM, though the premium is smaller than that needed when using the typical calculation of beta.

Graph 7-5 compares the 10 deciles of the NYSE/AMEX/NASDAQ to the security market line. There are two sets of decile portfolios—one set is plotted using the single variable regression method of calculating beta, as in Graph 7-2, and the second set uses the sum beta method. The portfolios plotted using sum beta more closely resemble the security market line. Again, this demonstrates that the sum beta method results in the desired effect: a higher estimate of returns for small companies. Yet the smaller portfolios still lie above the security market line, indicating that an additional premium may be required.

Table 7-10

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Long-Term Returns in Excess of CAPM for Decile Portfolios of the NYSE/AMEX/NASDAQ, with Sum Beta 1926-2005

Decile	Sum Beta*	Arithmetic Mean Return	Realized Return in Excess of Riskless Rate**	Estimated Return in Excess of Riskless Rate†	Size Premium (Return in Excess of CAPM)
1-Largest	0.91	11.29%	6,07%	6.45%	-0.38%
2	1.06	13.22%	8.00%	7.50%	0.51%
3	1.13	13.84%	8,62%	8.00%	0.62%
4	1.20	14.31%	9.09%	8.49%	0.60%
5	1.24	14.91%	9.69%	8.77%	0.92%
6	1.30	15.33%	10.11%	9.24%	0.87%
7	1.38	15.62%	10.40%	9.76%	0.64%
8	1.48	16.60%	11.38%	10.50%	0.88%
9	1.55	17.48%	12.26%	11.00%	1.26%
10-Smallest	1.71	21.59%	16.37%	12.12%	4.26%
Mid-Cap, 3-5	1,17	14.15%	8.94%	8.28%	0.65%
Low-Cap, 6-8	1.36	15.66%	10.44%	9.66%	0.78%
Micro-Cap, 9-10	1.60	18.77%	13.55%	11.31%	2.24%

*Betas are estimated from monthly portfolio total returns in excess of the 30-day U.S. Treasury bill total return versus the S&P 500 index total returns in excess of the 30-day U.S. Treasury bill, January 1926–December 2005.

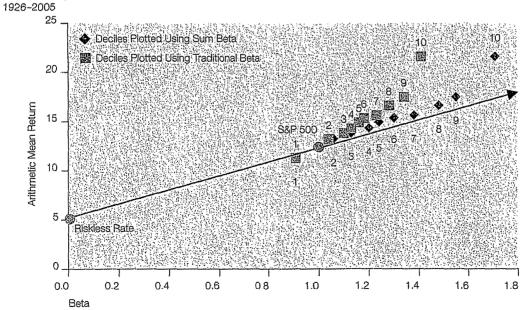
**Historical riskless rate is measured by the 80-year arithmetic mean income return component of 20-year government bonds (5.22 percent).

Security Market Line versus Size-Decile Portfolios of the NYSE/AMEX/NASDAQ, Sum Beta (with Lag)

†Calculated in the context of the CAPM by multiplying the equity risk premium by beta. The equity risk premium is estimated by the arithmetic mean total return of the S&P 500 (12.30 percent) minus the arithmetic mean income return component of 20-year government bonds (5.22 percent) from 1926-2005.

Graph 7-5

versus Unadjusted Beta (without Lag)



Ibbotson Associates

Annual Data versus Monthly Data

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Another potential way to correct for the low beta estimates of small company stocks is to calculate the long-term beta with annual data instead of monthly data. Using annual data may eliminate the infrequent trading argument because of the long period of time covered. However, Table 7-11 and Graph 7-6 illustrate that the size premium is still present when estimating beta with annual data.

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Table 7-11

Long-Term Returns in Excess of CAPM Estimation for Decile Portfolios of the NYSE/AMEX/NASDAQ, with Annual Beta 1926-2005

1920-2005

Decile	Annual Beta*	Arithmetic Mean Return	Realized Return in Excess of Riskless Rate**	Estimated Return in Excess of Riskless Rate†	Size Premium (Return In Excess of CAPM)
1-Largest	0.94	11.29%	6.07%	6.65%	-0.58%
2	1.04	13.22%	8.00%	7.38%	0.62%
3	1.08	13.84%	8.62%	7.68%	0.94%
4	1.17	14.31%	9.09%	8.27%	0.82%
5	1.20	14.91%	9.69%	8.51%	1.19%
6	1.20	15.33%	10.11%	8.51%	1.60%
7	1.30	15.62%	10.40%	9.21%	1.19%
8	1.37	16 60%	11.38%	9.67%	1.71%
9	1.46	17.48%	12.26%	10.31%	1.95%
10-Smallest	1.65	21.59%	16.37%	11.69%	4.69%
Mid-Cap, 3-5	1.13	14.15%	8.94%	8.01%	0.93%
Low-Cap, 6-8	1.27	15.66%	10.44%	8.98%	1.46%
Micro-Cap, 9-10	1.51	18.77%	13.55%	10.72%	2.83%

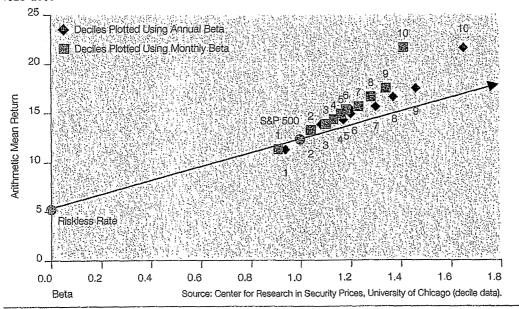
*Betas are estimated from annual portfolio total returns in excess of the 30-day U.S. Treasury bill total return versus the S&P 500 index total returns in excess of the 30-day U.S. Treasury bill, January 1926–December 2005.

**Historical riskless rate is measured by the 80-year arithmetic mean income return component of 20-year government bonds (5.22 percent).

†Calculated in the context of the CAPM by multiplying the equity risk premium by beta. The equity risk premium is estimated by the arithmetic mean total return of the S&P 500 (12.30 percent) minus the arithmetic mean income return component of 20-year government bonds (5.22 percent) from 1926–2005.

Graph 7-6

Security Market Line versus Size-Decile Portfolios of the NYSE/AMEX/NASDAQ Annual Beta versus Monthly Beta 1926-2005



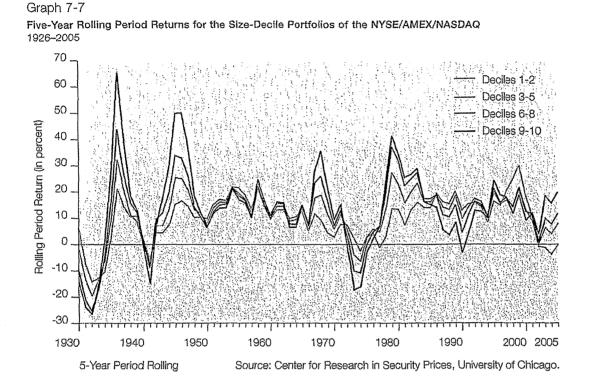
Serial Correlation in Small Company Stock Returns

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In five of the last ten years, large-capitalization stocks have outperformed small-capitalization stocks. This recent role reversal has led some to speculate that there is no size premium, but statistical evidence suggests that periods of underperformance should be expected.

History tells us that small companies are riskier than large companies. Table 7-4 shows the standard deviation (a measure of risk) for each decile of the NYSE/AMEX/NASDAQ. As one moves from larger to smaller deciles, the standard deviation of return grows. Investors are compensated for taking on this additional risk by the higher returns provided by small companies. It is important to note, however, that the risk/return profile is over the long term. If small companies did not provide higher long-term returns, investors would be more inclined to invest in the less risky stocks of large companies.

The increased risk faced by investors in small stocks is quite real. The long-term expected return for any asset class is quite different than short-term expected returns, and investors in small-capitalization stocks should expect losses and periods of underperformance. Graph 7-7 shows five-year rolling period returns of four size groups: large-cap (deciles 1-2), mid-cap (deciles 3-5), low-cap (deciles 6-8), and micro-cap (deciles 9-10). There have been a number of five-year periods in which the large-cap group outperformed some or all of the small-cap groups.



Serial correlation, or first-order autocorrelation, measures the degree to which the return of a given series is related from period to period. Serial correlation, like cross-correlation, ranges from positive one to negative one. A positive serial correlation can be an indicator of a trend in a return series. A serial correlation of positive one indicates that returns from one period have a perfectly positive relationship to the returns of the next period; returns are therefore perfectly predictable from one period to the next. A negative serial correlation can be an indicator of a cycle in a return series. A serial correlation of negative one indicates that returns from one period have a perfectly negative relationship to the next period. A serial correlation near zero indicates that returns are random or unpredictable.

If stock returns have a positive or a negative serial correlation, one can gain some information about future performance based on prior period returns. The serial correlation of returns on largecapitalization stocks is near zero. [See Table 7-4.] For the smallest deciles of stocks, the serial correlation is near or above 0.1. This observation bears further examination. To remove the randomizing effect of the market as a whole, the returns for decile 1 are geometrically subtracted from the returns for each decile 2 through 10. The result illustrates that these series in excess of decile 1 exhibit greater serial correlation than the individual decile series themselves. Table 7-12 presents the serial correlations of the excess returns for deciles 2 through 10. These serial correlations suggest some predictability of smaller company excess returns; however, caution is necessary. The serial correlation of small company excess returns for non-calendar years (February through January, etc.) do not always confirm the results shown here for calendar years (January through December). Therefore, predicting small company excess returns may not be easy.

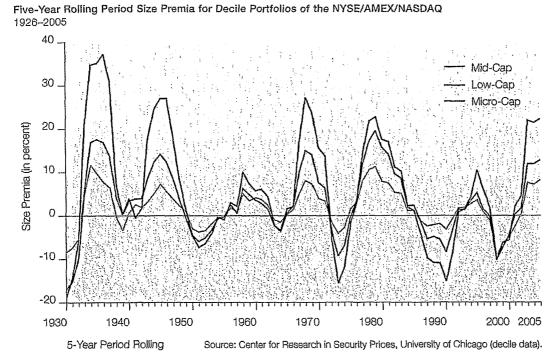
Table 7-12

Size-Decile Portfolios of the NYSE/AMEX/NASDAQ, Serial Correlation of Annual Returns in Excess of Decile 1 Returns 1926–2005

Decile	Serial Correlation of Annual Returns in Excess of Decile 1 Returns
2	0.27
3	0.31
4	0.24
5	0.27
6	0.35
7	0.28
8	0-34
9	0.32
10	0.40

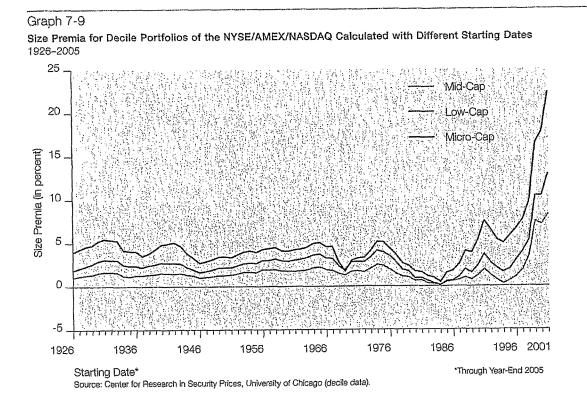
Source: Center for Research in Security Prices, University of Chicago.

The size premia developed in this chapter also remove the randomizing effect of the market as a whole and appear to be serially correlated. Graph 7-8 shows the size premia for rolling five-year periods for each of the three size groups: mid-cap, low-cap, and micro-cap. (A five-year period is necessary to calculate the beta for each portfolio, which is then used to calculate the size premia.) There are periods in which the size premia are positive and periods in which they are negative. However, none of these periods appears to continue for an extended time. Basing a long-term estimate of the size premia on the most recent periods would therefore be inappropriate.



Graph 7-8

The logic behind using a long history to estimate the size premia is similar to the argument for using a long history in estimating the equity risk premium (see Chapter 5). Longer historical periods provide more stable estimates of the size premia because unique events are not weighted heavily, and the probability of such events occurring is better represented by an average that covers a long period of time. Graph 7-9 demonstrates the calculation of the size premia using different starting dates. It shows the realized size premia for a series of time periods through 2005. In other words, the first value on the graph represents the average realized size premium over the period 1926–2005. The next value on the graph represents the average realized size premium over the period 1927–2005, and so on, with the last value representing the average over the most recent five years, 2000–2005. Concentrating on the left side of Graph 7-9, one notices that the realized size premia, when measured over long periods of time, are relatively stable. The increased volatility of the size premia in more recent periods is due to their cyclical nature.



Seasonality

Unlike the returns on large company stocks, the returns on small company stocks appear to be seasonal. The January effect denotes the empirical regularity with which rates of return for small stocks have historically been higher in January than in the other months of the year. Small company stocks often outperform larger stocks by amounts in January far greater than in any other month.

Table 7-13 shows the returns of capitalization deciles 2 through 10 in excess of the return on decile 1; the excess returns are segregated into months. For each decile and for each month, the exhibit shows both the average excess return and the number of times the excess return was positive. These two statistics measure the seasonality of the excess return in different ways—the average excess return illustrates the size of the seasonality effect, while the number of positive excess returns shows its reliability.

Table 7-13 Returns in Excess of First Decile, Size-Decile Portfolios of the NYSE/AMEX/NASDAQ 1926-2005

Tot													
c (Jan-De	Dec	Nov	Oct	Sep	Aug	Jul	Jun	May	Apr	Mar	Feb	Jan	Decile
6 1.56	0.36%	0.11%	-0.25%	0.10%	0.25%	~0.05%	0.08%	0.09%	-0.33%	-0.03%	0.52%	0.81%	2
1	44	44	36	45	42	37	39	41	29	37	50	59	
6 2.01	0.32%	0.57%	-0.38%	-0.02%	0.38%	0.00%	-0.11%	-0.17%	-0.12%	0.01%	0.32%	1.15%	3
3	46	46	34	43	47	40	36	35	30	41	51	59	
6 2.19	0.48%	0.41%	-0.76%	0.12%	0.32%	-0.02%	-0.06%	0.08%	0.30%	-0.07%	0.59%	1.30%	4
3	46	46	28	40	48	37	39	39	34	38	52	56	
6 2.67	0.31%	0.38%	-0.80%	0.16%	0.35%	-0.04%	0.03%	-0.18%	-0.29%	-0.13%	0.57%	2.19%	5
2	42	46	31	40	45	39	37	36	35	37	48	58	
6 3.01	0.22%	0.30%	-1.24%	0.21%	0.54%	-0.08%	-0.13%	0.27%	-0.18%	-0.20%	0.56%	2.56%	6
2	42	42	31	44	45	41	37	38	33	40	51	60	
6 3.02	0.02%	0.22%	-1.04%	0.29%	0.23%	-0.05%	-0.27%	0.14%	-0.19%	-0.20%	0.64%	3.16%	7
3	38	42	29	44	40	35	33	34	36	41	52	61	
6 3.77	-0.30%	0.31%	-1.04%	0.10%	0.07%	0.11%	-0.40%	0.45%	-0.46%	-0.44%	0.73%	4.32%	8
5	35	37	32	41	37	37	36	32	33	36	47	60	
6 4.40	-1.05%	0.19%	-1.26%	-0.03%	0.13%	0.04%	~0.35%	0.28%	-0.31%	-0.25%	0.96%	5.79%	9
3	33	34	30	38	40	36	33	33	32	40	44	63	
6 7.80	-1.69%	-0.34%	-1.41%	0.68%	-0.10%	0.56%	0.64%	0.51%	0.03%	-0.80%	1.01%	9.13%	10
в	28	30	28	42	30	37	32	35	36	34	41	72	

First row: average excess return in percent.

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Second row: number of times excess return was positive (in 80 years).

Source: Center for Research in Security Prices, University of Chicago.

Virtually all of the small stock effect occurs in January, as the excess outcomes for small company stocks are mostly negative in the other months of the year. Excess returns in January relate to size in a precisely rank-ordered fashion, and the January effect seems to pervade all size groups. Yet, simply demonstrating that the size premium is largely produced by the January effect does nothing to refute the existence of such a premium.

Possible Explanations for the January Effect

There is no generally accepted explanation of the January effect. One potential explanation is that it results from year-end window dressing by portfolio managers. Window dressing is the process of dumping money-losing stocks just before year-end so that such stocks are not included in the portfolio managers' annual reports.

Another explanation of the January effect is that it results from tax-loss selling at year-end, whereby money-losing stocks are sold at the end of the year for tax purposes. They are then repurchased in the market in January. Investors who have earned a capital loss on a security may be motivated to sell their shares shortly before the end of December in order to realize the capital loss for income tax purposes. This creates a preponderance of sellers in need of willing buyers at yearend. Amid such selling pressure, transactions will generally occur at the bid price, or the price a buyer is willing to pay for a particular stock, which is generally lower than the ask price. Therefore, a preponderance of sell orders will register more transactions at lower bid prices, which may create some temporary downward pressure on the prices of these stocks. They will only appear to recover in January, when trading returns to a more balanced mix of buy and sell orders, though there may be some actual recovery of prices as money generated by tax-loss selling returns to the market, driving up demand.

How does this cause "small" stocks to have higher apparent returns? Stocks that are "losers" will tend to have depressed stock prices. Also, stocks whose prices are quoted at the "bid" price will tend to have lower apparent market values than stocks quoted at the "ask" price. These two effects may lead to a bias when we use the market value of equity as our measure of "size." If losing stocks have both depressed prices and a tendency to sell at the "bid" at year-end, then they will likely be pushed down in the rankings according to market value. At the same time, winners will be pushed up. Thus, portfolios composed of "small" market value companies will tend to have more "losers" whose returns in January are distorted by tax-loss selling.

This argument vanishes if one uses a non-value criterion (such as net sales, total assets, or number of employees) to measure "size." As long as the "size" measure is not based on market value, there will be no tendency for firms with depressed stock prices to be ranked lower than other firms or for "small" stock portfolios to include a preponderance of "bid" prices at year-end. One study that corroborates the effect of different size measures is the PricewaterhouseCoopers study.⁵ The PricewaterhouseCoopers study focused on different measures of size and calculated size premia using these different measures. The measures of size considered by the study are market value of equity, book value of equity, five-year average net income, market value of invested capital, total assets, fiveyear average EBITDA, sales, and number of employees. This study is updated annually and now sold as the Duff & Phelps, L.LC. Risk Premium Report.⁶

⁵ Grabowski, Roger, and David W. King. "New Evidence on Size Effects and Rates of Return," Business Valuation Review, September 1996, p. 103.

⁶ For more information on the "Duff & Phelps, L.L.C. Risk Premium Report" see Ibbotson's Cost of Capital Center at http://www.ibbotson.com.

The Size Phenomena Across Industries

One question regularly raised concerning the size premium is whether it is relevant for specific industries. In the past there has been no concrete evidence to counter the contention that a size effect exists for the economy as a whole but may not be relevant to a specific industry. The problem of supporting a size premia for a specific industry has been made difficult by a lack of data for companies in individual industries.

We have attempted to answer this question by performing an industry-specific size effect study. The study uses the Center for Research in Security Prices (CRSP) database and the following methodology:

- 1. Industries are defined at the two-digit SIC (Standard Industrial Classification) code level. Companies are sorted into industries using the CRSP SIC code classification system. In order to be included in the study, an industry must have a minimum of ten companies for all periods. Any industry containing less than 30 years of data was not included in the study.
- 2. On a calendar year-end basis, companies are ranked by market capitalization within each industry from largest to smallest. Each industry is split into a "large" and a "small" portfolio with an equal number of companies.
- 3. A capitalization-weighted return series is calculated for each "large" and "small" portfolio. The excess return for each industry is represented by the "small" portfolio arithmetic return less the "large" portfolio arithmetic return.

The results of the study can be found in Table 7-14. Note that a large majority of industries exhibit returns where small company stocks outperform large company stocks over extended periods.

The excess returns presented in this table should not be construed as size premia. Due to limited data, we have defined size in rather general terms. In addition, the population of companies in most industries is very small. Table 7-14 only provides evidence that smaller companies have generally outperformed larger companies across industries. The size premium study presented earlier in this chapter provides more reliable statistics as they relate to the size premium. In addition, measures of industry risk for use in the buildup model are presented in Table 3-5.

Table 7-14

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Size Effect within Industries

Summary Statistics and Excess Returns

(Through Year-end 2005)

			Larg	je Company (aroup
SIC			Geometric	Arithmetic	Standard
Code	Description	Years	Mean	Mean	Deviation
0	Metal Mining	80	7.87%	11.47%	29.09%
3	Oil and Gas Extraction	43	11.41%	14.34%	26,13%
15	Building Construction-General Contractors & Op. Builders	34	12.93%	19.66%	39,85%
16	Hvy. Construction Other than Bldg, Construction-Contractors	35	7,28%	10.93%	30.54%
20	Food and Kindred Spirits	80	10.88%	12.52%	18.98%
22	Textile Mill Products	80	7.00%	11.87%	32.649
23	Apparel & other Finished Products Made from Fabrics & Similar	46	8.01%	12.64%	32.819
24	Lumber and Wood Products, Except Furniture	43	9.62%	12.26%	25.379
25	Furniture and Fixtures	36	10.11%	12.46%	22.379
26	Paper & Allied Products	76	10,29%	13.68%	28.099
27	Printing, Publishing and Allied Products	47	10.71%	12.81%	21.059
28	Chemicals and Allied Products	80	11.78%	13.91%	22.45%
29	Petroleum Refining & Related Industries	80	11.40%	13,50%	21.349
30	Rubber & Miscellaneous Plastics Products	59	10.83%	13.54%	25.349
31	Leather & Leather Products	43	12,74%	17.08%	33.029
32	Stone, Clay, Glass & Concrete Products	77	B.66%	12.46%	31.509
33	Primary Metal Industries	80	8.08%	12.01%	30.399
34	Fabricated Metal Products, Except Machinery & Trans. Equip.	80	9.56%	12.08%	23.109
35	Industrial & Commercial Machinery & Computer Equipment	80	10.68%	14.09%	27.669
36	Electrical Equipment & Components, Except Computer	80	9.86%	13.58%	28.54
37	Transportation Equipment	80	10.82%	15.07%	32,08
38	Measuring, Analyzing & Controlling Instruments	69	12.04%	14.14%	21.96
39	Miscellaneous Manufacturing Industries	44	7.88%	11.74%	28.57
40	Railroad Transportation	80	9.65%	12.67%	24.86
42	Motor Freight Transportation & Warehousing	42	9.78%	13.24%	28.28
45	Transport by Air	60	7.26%	11.67%	32.379
48	Communications	43	8.89%	11.20%	22.089
49	Electric, Gas & Sanitary Services	80	8,78%	10.89%	21,489
50	Wholesale Trade-Durable Goods	60	10.12%	12.34%	22.64
51	Wholesale Trade-Nondurable Goods	38	9.94%	12.89%	24.91
53	General Merchandise Stores	80	9.88%	13.09%	26.56
54	Food Stores	49	11.29%	13.79%	23.37
56	Apparel & Accessory Stores	59	14.08%	18,18%	32.15
57	Home Furniture, Furnishings, and Equipment Stores	33	12,37%	23.69%	60.37
58	Eating and Drinking Places	37	10.85%	15,36%	33.13
59	Miscellaneous Retail	43	12.66%	15.93%	26.94
	Depository Institutions	37	11.64%	13.78%	21.37
60		56	12.83%	15.66%	26.45
61 60	Nondepository Credit institutions Security and Commod. Brokers, Dealers, Exchanges	33	17.78%	24.55%	43.10
62		37	10.63%	12.51%	20.39
63	Insurance Carriers	33	14.79%	16,25%	18.21
64	Insurance Agents, Brokers, and Service		7.34%	11.82%	30.63
65	Real Estate	43			
67	Holding & Other Investment Offices	76	10.00%	13.17%	25.21
70	Hotels, Rooming Houses, Camps, & Other Lodging	36	10.03%	15.69%	35.13
72	Personal Services	36	8.73%	13.40%	30.78
73	Business Services	43	10.20%	15.01%	32.56
78	Motion Pictures	55	12.11%	16.67%	33.13
79	Amusement and Recreation Services	33	12.44%	16.16%	27.50
80	Health Services Center for Research in Security Prices, University of Chicago.	34	13.17%	18.92%	35.76

Table 7-14 (continued)

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Size Effect within Industries

Summary Statistics and Excess Returns

(Through Year-end 2005)

		Smal	I Company Gr	oup	
SIC		Geometric	Arithmetic	Standard	Excess
Code	Description	Mean	Mean	Deviation	Return
0	Metal Mining	8.31%	16.30%	46.05%	4.83%
3	Oli and Gas Extraction	12.81%	21.07%	46.60%	6.73%
5	Building Construction-General Contractors & Op. Builders	6.64%	15.87%	43.37%	-3.79%
6	Hvy. Construction Other than Bldg. Construction-Contractors	18.58%	23,57%	37.33%	12.65%
20	Food and Kindred Spirits	12.36%	15.95%	30.16%	3.44%
22	Textile Mill Products	9.77%	15.35%	34.60%	3.49%
23	Apparel & other Finished Products Made from Fabrics & Similar	5.72%	11.52%	37.95%	-1.12%
24	Lumber and Wood Products, Except Furniture	11.02%	21.19%	53.51%	8.93%
25	Furniture and Fixtures	9.12%	13.29%	29.62%	0.83%
26	Paper & Allied Products	14.21%	19.79%	42.06%	6.12%
27	Printing, Publishing and Allied Products	16.30%	19,15%	24.91%	6.34%
28	Chemicals and Allied Products	13.38%	18,87%	39.59%	4.95%
29	Petroleum Refining & Related Industries	13.21%	17.68%	31.92%	4.18%
30	Rubber & Miscellaneous Plastics Products	12.60%	17.05%	32.93%	3.52%
31	Leather & Leather Products	11.75%	16,79%	34.22%	-0.29%
32	Stone, Clay, Glass & Concrete Products	9.71%	14.54%	33.16%	2.08%
33	Primary Metal Industries	13.01%	18.76%	38.48%	6.75%
34	Fabricated Metal Products, Except Machinery & Trans. Equip.	11.77%	17.41%	37.42%	5.33%
35	Industrial & Commercial Machinery & Computer Equipment	12.20%	17.59%	35,60%	3.50%
36	Electrical Equipment & Components, Except Computer	12.01%	20.02%	45.90%	6.44%
	Transportation Equipment	12.04%	18.32%	38.31%	3.25%
37	and the second secon	13.25%	18.19%	35.01%	4.05%
38 00	Measuring, Analyzing & Controlling Instruments	8.07%	12.55%	31,90%	0.82%
39	Miscellaneous Manufacturing Industries	8.46%	14.82%	36,36%	2.15%
40	Railroad Transportation	7.21%	13.19%	38.93%	-0.04%
42	Motor Freight Transportation & Warehousing	8.71%	17.13%	48.27%	5.46%
45	Transport by Air		25,50%	46.18%	14.30%
48	Communications	17,30%	•• • •		· · ·
49	Electric, Gas & Sanitary Services	10.34%	13.96%	29.63%	3.08% 3.92%
50	Wholesale Trade-Durable Goods	11.01%	16.26%	36.38%	Statement of the Statement of the
51	Wholesale Trade-Nondurable Goods	8.64%	12.33%	28.69%	-0.56%
53	General Merchandise Stores	9.37%	16.84%	43.14%	3.75%
54	Food Stores	10.00%	13.82%	29.54%	0.03%
56	Apparel & Accessory Stores	11.87%	18.02%	38.93%	-0.16%
<u>57</u>	Home Furniture, Furnishings, and Equipment Stores	15.82%	26.33%	51.19%	2.64%
58	Eating and Drinking Places	2.03%	7.97%	36.84%	-7.39%
59	Miscellaneous Retail	12.11%	17.66%	36.52%	1.74%
60	Depository Institutions	15.33%	17.99%	25.10%	4.21%
61	Nondepository Credit Institutions	13.52%	17.44%	29.94%	1.78%
62	Security and Commod. Brokers, Dealers, Exchanges	14.58%	21.59%	42.10%	-2.96%
63	Insurance Carriers	13.39%	16.25%	24.02%	3.749
64	Insurance Agents, Brokers, and Service	11.82%	19.26%	43.80%	3.01%
65	Real Estate	6.72%	11.65%	34.85%	-0.16%
67	Holding & Other Investment Offices	11.19%	15.46%	31.25%	2.28%
70	Hotels, Rooming Houses, Camps, & Other Lodging	6,42%	12.53%	37.23%	-3.16%
72	Personal Services	18.06%	22.49%	32.80%	9.09%
73	Business Services	13.95%	23.68%	59.91%	8,679
78	Motion Pictures	6.18%	14.05%	45.60%	-2.62%
79	Amusement and Recreation Services	11.18%	15.10%	31.68%	-1.079
80	Health Services	15.59%	22.05%	40.75%	3.13%
	enter for Research in Security Prices, University of Chicago.				

Other Criticisms of the Size Premium

Bid/Ask Spread

All stocks have a bid/ask spread that represents the differential between the highest price a prospective buyer is prepared to pay (bid) and the lowest price a seller is willing to accept (ask). Market makers in a particular security make their money off of this spread. The spread is a form of transaction cost and is a function of the liquidity of a particular security; the greater the liquidity, the lower the bid/ask spread. In general, larger companies have more trading activity and therefore have greater liquidity and a lower bid/ask spread.

Some argue that the existence of such a spread adds a bias to all stock returns but particularly so to portfolios comprised of less liquid (generally smaller) companies that have higher bid/ask spreads. The bias arises because the movement from a bid price to an ask price creates a measured rate of return that is higher in absolute value than a movement from one ask price to another ask price. Since trades occur randomly at either the bid or the ask price, some bias may slip into the measured returns. This bias can be especially pronounced if one is measuring rates of return on a daily basis. Most studies (e.g., Ibbotson Associates and PricewaterhouseCoopers) calculate returns at the portfolio level on a monthly basis and then compound the portfolio returns for each of the 12 months of the year to obtain an annual rate of return.

The "bid/ask bias" is a valid concern that deserves some consideration. Most studies of the small stock effect use the Center for Research in Security Prices (CRSP) database to measure rates of return. CRSP generally uses the closing price, which will be either a "bid" or an "ask," to measure the rates of return. If there are no trades on a given day, CRSP will use the average of the "bid" and "ask" prices. Note that the most illiquid stocks (those with the highest bid/ask spreads) will be the least likely to trade on a given day. For these stocks, CRSP uses the bid/ask average, which automatically rectifies the "bias" to some extent.

The "bid/ask bias" has only a trivial impact on the observed size/return relationship. Average bid/ask spreads are less than four percent of the underlying stock price for all but the very smallest portfolios of stocks.⁷ Spreads of under 4 percent could give rise to biases in measured returns that are at most 50 basis points (assuming that annual returns are being compounded from monthly portfolio results, as in the Ibbotson and PricewaterhouseCoopers studies), yet the size/return relationship is manifest even for mid-sized public companies.

Geometric versus Arithmetic Averages

It has been suggested that using geometric averages to formulate discount rates will correct for the alleged "bid/ask bias." This argument is completely spurious. The difference between the geometric and arithmetic averages has nothing whatsoever to do with the bid/ask bounce. Both measures are built up from the same underlying monthly return measurements. Geometric averages are always less than arithmetic averages as a matter of mathematical law, not as a result of the bid/ask spread. Though using geometric averages produces a lower discount rate, the lower rate cannot be attributed to a correction of the bid/ask spread.

⁷ Amihud, Yakov, and Haim Mendelson. "Asset Pricing and the Bid-Ask Spread," Journal of Financial Economics, Vol. 17, 1986, pp. 223-249.

Infrequent Trading and Small Stock Betas

It has been argued that betas for smaller, less frequently traded stocks are mismeasured; in particular, they tend to be too low. If small stock betas were sufficiently high to measure their true systematic risk, then the small stock premium might disappear. This possibility has been offered as an argument against the use of a small stock premium in calculating discount rates.

With a little bit of thought, one should come to a very different conclusion. If small stocks have high returns because they have high betas, and if methods of measuring betas for smaller companies produce betas that are too low, then in the context of the CAPM some sort of adjustment is necessary in order to produce a discount rate of the right magnitude. A small stock premium is one such adjustment.

The Ibbotson Associates size premia study presented earlier in this chapter demonstrates this concept. Beta is calculated for each decile for the entire history back to 1926. These betas are then plugged into the capital asset pricing model to produce decile costs of equity under CAPM, which are then compared to the actual returns that the deciles achieved over this period of history. For all but the largest decile, CAPM underestimates the cost of equity. The amount of this underestimation is termed the size premium.

As was noted earlier in this chapter, it is possible to estimate beta with a different regression equation to take into account the infrequent trading of small-capitalization stocks. One can accomplish this either by using the sum beta technique or by measuring beta with annual data. As seen in Tables 7-10 and 7-11, these techniques increase the cost of equity as predicted by CAPM, but fail to completely eradicate the size premium.

Transaction Costs

It has been argued that, because of high bid/ask spreads and other transaction costs, an investor in publicly traded small stocks is not able to realize returns as high as those we observe in the historical record. According to one theory, small stocks earn high returns in order to compensate investors for high transaction costs. However, in valuing a business, one typically applies to cash flows a discount rate that does not reflect the buyer's or the seller's transaction costs. It would be inconsistent to also use a discount rate that reflects a rate of return on a "net of transaction cost" basis.

Delisted Return Bias

Tyler Shumway published some evidence that the CRSP database omits delisting returns for a large number of companies.⁸ This creates a potential bias because stocks generally experience negative returns upon delisting. Since delisting is concentrated in firms with small market values, this has been offered as a partial explanation of the observed size effect.

Shumway's data revealed that the possible bias is trivial for all but the very smallest companies, yet the historical size effect is still evident in mid-cap companies. Therefore, this bias would explain little of the observed historical relationship.

PricewaterhouseCoopers revised its methodology to take into account the Shumway evidence. Shumway reported that the average delisting rate of return for companies for which he could find

8 Shumway, Tyler. "The Delisting Bias in CRSP Data," Journal of Finance, Vol. 52, 1997, pp. 327-340.

data was approximately minus 30 percent. The PricewaterhouseCoopers calculations thus assumed a rate of return upon delisting of minus 30 percent for any company for which CRSP lacks delisting return data. This adjustment did not greatly affect the results of the 25 size portfolios in the *PricewaterhouseCoopers Risk Premia Study*. Even for the very smallest (25th) portfolio, the adjustment lowered the observed average return by only 22 basis points (less than one percent). For the rest of the portfolios, the adjustment was even smaller or non-existent. The 2005 update to the original PricewaterhouseCoopers Study is published as the *Duff & Phelps, LLC Risk Premium Report*. This report is available on <u>www.Ibbotson.com</u>.

CRSP questions, in its *CRSP Delisting Returns Study*, "whether or not using one replacement value for all missing delisting returns associated with poor performance delists is the most appropriate solution." CRSP further implies that using one single replacement value may create more bias in the data than would otherwise have existed because of the "significant variation in the average delisting returns for individual delist codes..." The "codes" represent groupings of firms that were delisted from an exchange for the same reason.

In the table below borrowed from the study, geometric annual returns of the 10 deciles are calculated over the 1926–2000 period in three ways: (1) Without Replacements – calculated without any substitution of the missing returns, as outlined on page 129 of this chapter, (2) Treating partial-month returns as delisting returns; partial-month returns are calculated by using the last daily trade price or bid-ask spread for the month in which the security delisted, if no post-delist value can be found, and (3) Using one of the three single-replacement values, based on the assumption "that all issues with missing delisting returns lost an additional 30, 55, or 100 percent of their pre-delist value after leaving the exchange."

Table 7-15

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Size-Decile Portfolios of the NYSE/AMEX/NASDAQ, Geometric Annual Returns With or Without Single-replacement Values 1926-2000

	Without Replacements	Partial	-30%	-55%	-100%
1 - Largest	10.31%	10.31%	10.31%	10.31%	10.31%
2	11.28	11.27	11.27	11.27	11.27
3	11.58	11.58	11.58	11.58	11.57
4	11.53	11.53	11.53	11.53	11.53
5	11.81	11.81	11.81	11.81	11.81
6	11.82	11.84	11.83	11.83	11.82
7	11.57	11.57	11.57	11.56	11.55
8	11.65	11.66	11.65	11.64	11.63
9	11.75	11.75	11.74	11.74	11.72
10 - Smallest	13.11	13.11	13.05	13.00	12.92

The highest difference between the returns calculated using a single-replacement value and no replacement value is 19 basis points in the case of the smallest decile portfolio (Decile 10: 13.11%-12.92%); hence, single-replacement values have little impact on the overall decile portfolios. Consequently, the potential upward bias in the size premia-constructed by

applying Ibbotson Associates' methodology to CRSP's NYSE/AMEX/NASDAQ Size-Decile Portfolios—is not evident, since the bias of the missing delisting returns (discussed by Shumway) does not manifest when decile portfolio returns are calculated with and without single-replacement value. For more information on delisting returns, visit CRSP's web site at http://www.crsp.uchicago.edu/.

Small Stock Returns Are Unpredictable

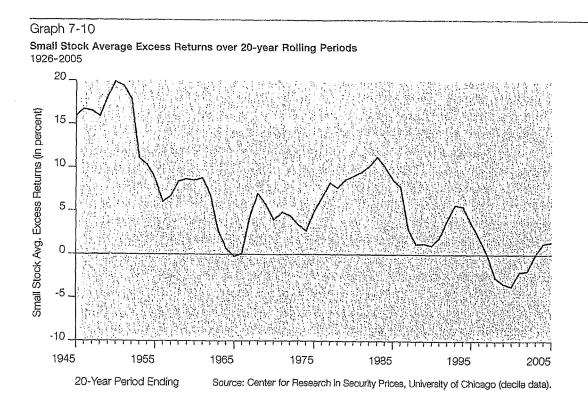
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Since investors cannot predict when small stock returns will be higher than large stock returns, it has been argued that they do not expect higher rates of return for small stocks. As was illustrated earlier in this chapter, even over periods of many years, investors in small stocks do not always earn returns that are higher than those of investors in large stocks. By simple definition, one cannot expect risky companies to always outperform less risky companies; otherwise they would not be risky. Over the long-term, however, investors do expect small stocks to outperform large stocks.

The unpredictability of small stock returns has given rise to another argument against the existence of a size premium: the argument that markets have changed so that there is no longer such a thing as a size premium. As evidence, one might observe the last 20 years of market data to see that the performance of large-capitalization stocks was basically equal to that of small-capitalization stocks. In fact, large-capitalization stocks have outperformed small-capitalization stocks in five of the last ten years.

While the 20-year returns of small-capitalization stocks currently seem low in comparison to large-capitalization stocks, the same relationship has been true in the past. Graph 7-10 shows the average excess returns of small stocks versus large stocks over historical rolling 20-year time periods. (Small stocks are represented by the CRSP NYSE/AMEX/NASDAQ deciles 9 and 10. The S&P 500 represents large stocks. The excess return is calculated by subtracting the large stock returns from the small ones.) The graph clearly shows that over the most recent 20-year rolling periods, small-capitalization stocks have not outperformed large-capitalization stocks.

As was noted earlier in this chapter, one thing that we do know about the size premium is that it is cyclical in nature. Most market returns (including those of large- and small-capitalization stocks) have no historical pattern; however, this is not true of the size premium. It is not unusual for the size premium to follow several years of consistently positive values with several years of consistently negative values. Given the cyclical nature of the size premium, it is therefore not surprising that in recent years large-capitalization stocks have dominated small-capitalization stocks. We should actually expect periods of small stock underperformance as well as overperformance in the future.



Conclusion

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Most criticisms of the use of size premia do not address the underlying reason for the existence of size premia. Small-capitalization stocks are still considered riskier investments than large company stocks. Investors require an additional reward, in the form of additional return, to take on the added risk of an investment in small-capitalization stock. It is unlikely that in the future investors will require no compensation for taking on this additional risk.

The size premium will undoubtedly continue to be questioned in some quarters. The goal of this section was to review the most common arguments against its existence. Most criticisms presented to date, however, have not provided sufficient evidence to disprove the existence of a size premium.

Table 7-16

Size-Decile Portfolios of the NYSE/AMEX/NASDAQ Year-by-Year Returns

from	1926	to	1970
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nonn i	0201010		-							
	Decile 1	Decile 2	Decile 3	Decile 4	Decile 5	Decile 6	Decile 7	Decile 8	Decile 9	Decile 10
1926	0.1438	0.0545	0.0355	0.0085	0.0033	0.0335	-0.0250	-0.0932	-0.0997	-0.0605
1927	0.3400	0.2957	0.3116	0.4134	0.3467	0.2312	0.3025	0.2553	0.3190	0.3126
1928	0.3889	0.3777	0,3982	0.3736	0.4965	0.2809	0.3530	0.3212	0.3740	0.6974
1929	-0.1056	-0.0793	-0.2569	-0.3177	-0,2448	-0.4044	-0.3769	-0.4082	-0,4993	-0.5359
1930	-0.2422	-0.3747	-0.3465	-0.3418	-0.3627	-0.3781	-0.3661	-0.4951	-0.4570	-0.4567
1931	-0.4215	-0.5011	-0.4600	-0.4569	-0.4865	-0.5102	~0.4787	-0.4907	-0.4908	-0.5010
1932	-0.1226	-0.0024	-0.0252	-0.1261	-0.1018	0.0398	~0.1734	0.0147	0.0000	0.3946
1933	0.4619	0.7631	1.0107	1.1255	0.9787	1.0886	1.1649	1.5446	1 7262	2.2383
1934	0.0213	0.0595	0.0889	0.1723	0.0806	0.2123	0.1693	0.2736	0.2290	0.3238
1935	0.4164	0.5598	0.3638	0.3754	0.6417	0.5448	0.6677	0.6123	0.6563	0.8333
1936	0.3010	0.3474	0.2813	0.4264	0.4823	0.5009	0.5213	0.4952	0.8323	0.8764
1937	-0.3182	-0.3703	-0.3801	~0.4412	0.4801	-0.4791	-0.4908	-0.5284	-0.5182	-0.5546
1938	0.2505	0.3465	0.3367	0.3472	0.5081	0.4218	0.3556	0.4584	0,2996	0.0956
1939	0.0473	-0.0279	-0.0482	0.0173	0.0224	0.0554	0.0521	-0.0433	-0.0619	0.1905
1940	-0.0707	0.0858	~0.0860	-0.0391	-0.0076	-0.0581	-0.0571	-0.0606	-0.0409	-0,3139
1941	-0.1079	0.0714	~0.0581	-0.1003	-0.1174	-0.1018	-0.0947	-0.0868	-0.1258	-0.1712
1942	0.1310	0.2360	0.2074	0.1961	0.2098	0.2441	0.2936	0.2963	0.4337	0.7664
1943	0.2361	0.3578	0.3342	0.4018	0.4844	0,4262	0.7259	0.7164	0.8446	1.4216
1944	0,1721	0.2513	0.2394	0.3300	0.3995	0.4438	0.3792	0.4980	0.5613	0.7060
1945	0.2935	0.4846	0.5447	0.6278	0.5429	0.6048	0.6400	0.7047	0.7621	0,9507
1946	-0.0445	-0.0442	-0.0789	-0.1289	-0.0955	-0.0656	-0.1588	-0.1470	-0.0950	-0,188
1947	0.0557	0.0081	-0.0034	0.0221	0.0260	-0.0289	-0.0211	-0.0293	-0.0360	-0.020
1948	0.0370	0.0009	0.0226	-0.0186	-0.0166	-0.0430	-0.0246	-0.0741	-0.0698	-0.049
1949	0.1868	0.2566	0.2652	0.1957	0.1802	0.2349	0.2195	0.1600	0.1975	0.246
1950	0.2862	0.2856	0.2636	0.3210	0.3682	0.3398	0.3794	0.4043	0.4029	0.557
1951	0.2149	0.2243	0.2176	0,1656	0.1455	0,1373	0.1832	0.1528	0.1109	0.058
1952	0.1430	0.1294	0.1220	0.1209	0.1099	0.1002	0.0974	0.0849	0.0859	0.017
1953	0.0110	0.0177	0.0023	-0.0135	0.0309	-0.0090	-0.0251	-0.0751	-0.0463	-0.0846
1954	0.4844	0.4831	0.5868	0.5122	0.5770	0,5927	0.5736	0.5241	0.6328	0.6888
1955	0.2833	0,1897	0.1893	0.1875	0.1795	0.2373	0.1790	0.2061	0.2008	0.2648
1956	0.0789	0.1138	0.0765	0.0849	0.0845	0.0653	0.0729	0.0532	0.0603	-0.0160
1957	-0.0932	-0.0845	-0.1324	-0.1063	-0.1391	-0.1848	-0.1712	-0.1809	-0.1474	-0.161
1958	0.4076	0,4957	0.5439	0.5923	0.5569	0.5674	0.6794	0.6570	0.7057	0.6988
1959	0.1236	0.0960	0.1340	0.1545	0.1858	0.1497	0,2089	0.1748	0.1940	0.155
1960	0.0037	0.0551	0.0441	0.0161	-0.0131	-0.0096	-0.0571	-0.0463	-0.0372	-0.082
1961	0.2633	0.2685	0.2911	0.3013	0.2808	0.2704	0,3007	0.3448	0.2984	0.322
1962	-0.0880	-0.0943	-0.1192	0.1276	-0.1652	-0.1795	-0.1647	-0.1528	-0.1661	-0.142
1963	0.2244	0.2131	0.1649	0.1716	0.1273	0.1843	0.1745	0.1992	0.1291	0.110
1964	0.1596	0.1450	0.1997	0.1612	0.1588	0.1721	0,1592	0.1708	0.1537	0,210
1965	0.0893	0.1913	0.2456	0.2429	0.3218	0.3801	0.3391	0.3182	0.3195	0.433
1966	-0.1033	-0.0529	-0.0517	-0,0606	-0.0729	-0.0495	-0.0905	-0.0872	-0.0583	-0.102
1967	0.2193	0.2099	0.3179	0.4524	0.5238	0.5275	0.6519	0.8177	0.9018	1,141
1968	0.0753	0.1657	0.1978	0.1829	0.2765	0.3040	0.2671	0.4028	0.3759	0.612
1969	-0.0584	-0.1297	-0.1170	-0.1674	-0.1804	-0.1852	-0.2458	-0.2473	-0.3157	-0.329
1970	0.0231	0.0182	0.0328	-0.0698	-0.0594	-0.0604	-0.0971	-0.1611	-0.1535	-0.178

Source: Center for Research in Security Prices, University of Chicago.

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Table 7-16 (continued)

Size-Decile Portfolios of the NYSE/AMEX/NASDAQ

Year-by-Year Returns

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from 1971 to 2005

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	Decile 1	Decile 2	Decile 3	Decile 4	Decile 5	Decile 6	Decile 7	Decile 8	Decile 9	Decile 10
1971	0.1484	0.1328	0.2011	0.2472	0.1890	0.2244	0.2018	0.1735	0.1647	0.1853
1972	0.2212	0.1278	0.0938	0.0881	0.0863	0.0695	0.0632	0.0205	-0.0229	~0.0057
1973	-0.1274	-0.2266	-0.2278	-0.2680	-0.3217	-0.3177	-0.3730	-0.3532	-0.3895	-0.4200
1974	-0.2803	-0.2441	-0.2449	-0.2834	-0.2167	0.2694	-0.2552	-0.2360	-0.2704	-0.2716
1975	0.3169	0.4573	0.5363	0.6168	0.5966	0.5675	0.6326	0.6579	0.6634	0.7579
1976	0.2073	0.3045	0.3811	0,4008	0.4363	0.4808	0,5018	0.5690	0.5101	0.5516
1977	-0.0884	-0.0367	0.0109	0.0376	0.1126	0.1408	0.1754	0.2261	0.2022	0.2310
1978	0.0637	0.0229	0.1084	0.0974	0.1207	0.1637	0.1705	0.1632	0.1605	0.2815
1979	0.1519	0.2871	0.3061	0.3516	0.3557	0.4888	0.4206	0.4638	0.4594	0.4158
1980	0.3275	0.3442	0.3186	0,3043	0.3193	0.3141	0,3623	0.3233	0.3823	0.3071
1981	-0.0833	0.0059	0.0372	0.0403	0.0484	0.0677	-0.0040	0.0055	0.0802	0.0856
1982	0,1964	0.1749	0.2081	0.2566	0.3076	0.2940	0.2919	0.2955	0.2608	0.2855
1983	0.2057	0.1686	0.2662	0.2633	0.2626	0.2589	0.2727	0.3721	0.3130	0.3690
1984	0.0840	0.0770	0.0253	-0.0458	-0.0269	0.0248	-0.0426	-0.0747	-0.0896	-0.1951
1985	0.3137	0.3770	0.2910	0.3390	0.3115	0.3097	0.3254	0.3651	0.3077	0.2582
1986	0,1801	0,1810	0.1636	0.1741	0.1504	0.0871	0.1250	0.0387	0.0572	0.0040
1987	0.0504	0.0036	0.0393	0.0167	-0.0402	-0.0509	-0.0843	-0.0804	-0.1274	-0.1488
1988	0.1486	0.1982	0.2126	0.2237	0.2138	0.2336	0.2394	0.2854	0.2283	0.2105
1989	0.3295	0.3008	0.2629	0.2308	0.2423	0.2107	0.1785	0.1788	0.1058	0.0550
1990	-0.0088	-0.0853	-0.1015	-0.0875	-0.1409	-0.1849	-0.1532	-0.1979	-0.2460	-0.3128
1991	0.3039	0.3463	0.4140	0.3883	0.4813	0.5326	0.4421	0.4707	0.5066	0.4804
1992	0.0474	0.1577	0.1387	0.1249	0.2609	0.1885	0.1917	0.1287	0.2495	0.3374
1993	0.0733	0.1316	0.1614	0.1567	0.1691	0.1733	0.1882	0.1865	0,1656	0.2561
1994	0.0174	-0.0174	-0.0423	-0.0098	-0.0166	0.0034	-0.0252	-0.0308	-0.0312	-0.0297
1995	0.3940	0.3526	0.3533	0.3275	0.3324	0.2692	0.3264	0.2935	0.3497	0.3048
1996	0.2375	0.1963	0.1714	0.1883	0.1366	0.1737	0.1965	0.1720	0.2064	0.1722
1997	0.3486	0.3012	0.2512	0.2611	0.1565	0.2865	0.3003	0.2537	0.2554	0.2201
1998	0.3515	0.1272	0.0764	0.0724	0.0054	0.0116	-0.0090	0.0102	-0.0502	-0.1155
1999	0.2450	0.1976	0.3433	0.3006	0.2595	0,3492	0.2570	0,3888	0.3436	0.2809
2000	-0.1362	-0.0030	-0.0620	-0.0997	-0.0710	-0.1028	-0.1070	-0.1297	-0.1337	-0.1295
2001	-0.1529	-0.0882	-0.0411	-0.0096	-0.0214	0.0952	0.1226	0.2119	0.3157	0.3668
2002	-0.2246	-0.1736	-0.1934	-0.1771	-0.1778	-0.2122	-0.2297	-0.1998	-0.1859	-0.0555
2003	0.2568	0.3738	0.4029	0.4402	0.4090	0.4877	0.5075	0.5780	0.6822	0.9208
2004	0.0794	0.2013	0.1796	0.1874	0.1734	0.2205	0.1887	0.2190	0.1516	0.1858
2005	0.0372	0.1199	0.1237	0.1058	0.1011	0.0323	0 1048	0.0755	0.0200	0.0580

Source: Center for Research in Security Prices, University of Chicago.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 46 Witness: Don Murry

Data Request:

Refer to the Murry Testimony, pages 37 and 38 and Schedule DAM-24. There is no discussion of the underlying data or the selection of specific variables used in the calculations.

- a. Provide DAM-24 in electronic format (Excel) with formulas intact, including the underlying data.
- b. Provide a complete description of, derivation of, and the rationale for the use of each variable used in the Schedule.

Response:

- a. Please reference the response to KPSC DR 2-35 for the requested electronic file.
- b. The following discussion describes the variables in Schedule DAM-24:

"Risk Free Return" – the yield on a 20-Year Treasury Bond reported by *The Federal Reserve Statistical Release H.15.* Dr. Murry chose this particular bond yield because Ibbotson Associates recommends its use in its size adjusted cost of capital method.

"Beta" – a measure of risk of particular security relative to the market as identified in the underlying theory of the CAPM. *Value Line* is the source for this data.

"Equity Risk Premium" – the expected return of the market as a whole produced by Ibbotson Associates from Table C-1 from the *SBBI Valuation Edition 2006 Yearbook.*

"Adjusted Equity Risk Premium" – a calculated value derived by multiplying the equity risk premium times beta. This is from the underlying theory of the CAPM.

"Size Premium" – an adjustment to the basic CAPM to account for its empirical bias that understates the expected returns of smaller companies. The source is Table C-1 from the *SBBI Valuation Edition 2006 Yearbook*. For the companies with a market capitalization between \$1.7 and \$7.2 billion, Ibbotson adds 1.02 percent. For the companies with a market capitalization between \$587million and \$1.7 billion, Ibbotson adds 1.81 percent.

"Cost of Equity" – the sum of the Risk Free Return, the Adjusted Equity Risk Premium, and the size premium for each respective companies.

Please see the attachment KPSC DR2-46 ATT1 for supporting documentation.

Table C-1 Key Variables in Estimating the Cost of Capital

	Value
Yields (Riskless Rates) ¹	
Long-term (20-year) U.S. Treasury Coupon Bond Yield	4.6%
Equity Risk Premium ²	
Long-horizon expected equity risk premium (historical): large company stock total returns minus long-term government bond income returns	7.1
Long-horizon expected equity risk premium (supply side): historical equity risk premium minus price-to-earnings ratio calculated using three-year average earnings	6.3

Size Premium³

Decile	Market Capitalization of Smallest Company (in millions)		Market Capitalization of Largest Company (in millions)	Size Premium (Return in Excess of CAPM)
Mid-Cap, 3-5	\$1,729.364		\$7,187.244	1.02%
Low-Cap, 6-8	\$587.243	-	\$1,728.888	1.81
Micro-Cap, 9-10	\$1.079		\$586.393	3.95
Breakdown of Deciles 1-10				
1-Largest	\$16,091.015	-	\$367,495.144	-0.37
2	\$7,189.887	-	\$16,016.450	0.67
3	\$3,968.998	-	\$7,187.244	0.85
4	\$2,525.472		\$3,961.425	1.10
5	\$1,729.364	-	\$2,519.280	1.49
6	\$1,282.276		\$1,728.888	1.73
7	\$872.443	-	\$1,280.966	1.67
8	\$587.243	-	\$872,103	2.33
9	\$265.056	-	\$586.393	2.76
10-Smallest	\$1.079	-	\$264.981	6.36
Breakdown of the 10th Decile				
10a	\$169.245	-	\$264,981	4,39
10b	\$1.079	-	\$169.195	9.83

1 As of December 31, 2005. Maturity is approximate.

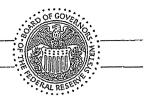
² See chapter 5 for complete methodology.

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³ See chapter 7 for complete methodology.

Note: Examples on how these variables can be used are found in Chapters 3 and 4

FEDERAL RESERVE statistical release



H.15 (519) SELECTED INTEREST RATES

Yields in percent per annum

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For use at 2:30 p.m. Eastern Time December 4, 2006

Yields in percent per annum December 4, 2006								-
Instruments	2006	2006	2006	2006	2006		Ending	2006
	Nov 27	Nov 28	Nov 29	Nov 30	Dec 1	Dec 1	Nov 24	Nov
Federal funds (effective) ^{1 2 3} Commercial Paper ^{3 4 5} Nonfinancial	5.32	5.24	5.26	5.31	5.27	5.26	5.24	5.25
1-month 2-month	5.20 n.a.	5.24 5.24	5.21 n.a.	5.22 n.a.	5.19 5.19	5.21 5.22	5.21 5.16	5.21 5.19
3-month Financial	n.a.	5.23	n.a.	n.a.	n.a.	5.23	5.14	5.17
1-month 2-month 3-month CDs (secondary market) ^{3 6}	5.23 5.24 5.24	5.22 5.23 5.24	5.23 5.23 5.24	5.24 5.22 5.24	5.23 5.24 5.23	5.23 5.23 5.24	5.23 5.24 5.25	5.23 5.24 5.24
1-month 3-month 6-month	5.29 5.32 5.32	5.29 5.32 5.31	5.29 5.31 5.30	5.30 5.31 5.30	5.30 5.31 5.29	5.29 5.31 5.30	5.29 5.32 5.33	5.29 5.32 5.33
Eurodollar deposits (London) ^{3 7} 1-month 3-month 6-month	5.32 5.37 5.36	5.32 5.36 5.33	5.35 5.36 5.33	5.35 5.36 5.33	5.35 5.35 5.28	5.34 5.36 5.33	5.31 5.36 5.37	5.32 5.36 5.37
Discount window primary credit ^{2 9} U.S. government securities Treasury bills (secondary market) ^{3 4}	8.25 6.25							
4-week 3-month 6-month Treasury constant maturities	5.16 4.92 4.94	5.18 4.91 4.93	5.17 4.91 4.93	5. 1 4 4.90 4.91	5.14 4.90 4.86	5.16 4.91 4.91	5.15 4.93 4.95	5.13 4.94 4.95
Nominal ¹⁰ 1-month 3-month	5.22 5.05	5.27 5.04	5.26 5.04	5.22 5.03	5.21 5.03	5.24 5.04	5.23 5.06	5.21 5.07
6-month 1-year 2-year 3-year	5.14 5.00 4.71 4.60	5.13 4.98 4.67 4.57	5.13 4.98 4.69 4.58	5.10 4.94 4.62 4.52	5.05 4.87 4.52 4.43	5.11 4.95 4.64 4.54	5.15 5.01 4.75 4.64	5.15 5.01 4.74 4.64
5-ýear 7-year 10-year 20-year 30-year	4.54 4.54 4.54 4.73 4.62	4.50 4.50 4.51 4.70 4.59	4.51 4.51 4.52 4.72 4.61	4.45 4.45 4.66 4.56	4.39 4.39 4.43 4.64 4.54	4,48 4,48 4,49 4,69 4,58	4.58 4.57 4.58 4.76 4.66	4.58 4.58 4.60 4.78 4.69
Inflation indexed ¹¹ 5-year 7-year 10-year	2.33 2.29 2.24	2.28 2.26 2.21	2.28 2.26 2.22	2.21 2.19 2.16	2.12 2.13 2.10	2.24 2.23 2.19	2.43 2.36 2.30	2.41 2.35 2.29
20-year Inflation-indexed long-term average ¹² Interest rate swaps ¹³	2.19 2.14	2.17 2.13	2.19 2.15	2.13 2.10	2.09 2.06	2.15 2.12	2.24 2.20	2.23 2.19
1-year 2-year 3-year	5.29 5.08 5.00	5.24 5.01 4.92	5.24 5.00 4.92	5.22 4.96 4.89	5.11 4.86 4.78	5.22 4.98 4.90	5.30 5.08 5.01	5.30 5.09 5.03
4-year 5-year 7-year 10-year	4.98 4.98 5.01 5.06	4.90 4.91 4.93 4.98	4.90 4.91 4.93 4.99	4.87 4.87 4.90 4.96 5.09	4.76 4.78 4.82 4.89	4.88 4.89 4.92 4.97 5.10	4.99 4.99 5.02 5.07 5.19	5.01 5.02 5.05 5.11 5.23
30-year Corporate bonds Moody's seasoned Aaa ¹⁴	5.18	5.11 5.24	5.11 5.25	5.09	5.04 5.18	5.23	5.30	5.33
Baa State & local bonds ¹⁵ Conventional mortgages ¹⁶	6.15	6.13	6.14	6.10 4.04 6.14	6.08	6.12 4.04 6.14	6.18 4.14 6.18	6.20 4.14 6.24

See overleaf for footnotes. n.a. Not available.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 47 Witness: Don Murry

Data Request:

Refer to the Murry Testimony, pages 37 and 38 and Schedule DAM-25. There is no discussion of the underlying data or the selection of specific variables used in the calculations.

- a. Provide DAM-25 in electronic format (Excel) with formulas intact, including the underlying data.
- b. Provide a complete description of, derivation of, and the rationale for the use of each variable used in the Schedule.
- c. Provide a discussion of the validity of using both the Long Term Corporate Bond Return and the Aaa Corporate Bond Return in the same CAPM calculation.
- d. Explain why there was no size adjustment in the calculations.
- e. Explain why it is appropriate to use any measure of corporate bond returns in the CAPM analysis as opposed to using long-term government bond returns.
- f. The Market returns used in this Schedule appear to differ from those used in Schedule DAM-24. Provide an explanation of the difference.

Response:

- a. Please reference the response to KPSC DR 2-35 for the requested electronic file.
- b. The following discussion describes the variables in Schedule DAM-25:

"Market Total Returns" – an estimate of expected market returns using data from Table 2-1 of Ibbotson Associates' *SBBI Valuation Edition 2006 Yearbook*,calculated as the average of the Large Company Total Stock Returns (12.3 percent) and the Ibbotson Small Company Stocks Total Return (17.4 percent).

"Long-Term Corporate Bonds Return" – a bond yield from Table 2-1 of Ibbotson Associates' *SBBI Valuation Edition 2006 Yearbook* titled "Long-Term Corporate Bonds, Total Returns" (6.2 percent).

"Risk Premium" – the difference between "Market Total Returns and Long-Term Corporate Bonds Return."

"Beta" – a measure of risk of particular security relative to the market as identified in the underlying theory of the CAPM. *Value Line* is the source for this data.

"Adjusted Equity Risk Premium" – a calculated value derived by multiplying the equity risk premium times beta. This is from the underlying theory of the CAPM.

"Aaa Corporate Bonds Return" - the yield on Moody's seasoned Aaa Corporate bonds reported by *The Federal Reserve Statistical Release H.15.* Risk premium models like the CAPM require a bond yield to calculate a cost of capital.

"Cost of Equity" – the sum of the Adjusted Equity Risk Premium, and the Aaa Corporate Bonds Return for each respective companies.

- c. Ibbotson Associates cites the source of its Long-Term Corporate Bonds as total returns represented by the "Citigroup Long-Term High-Grade Corporate Bond Index." The selection of the Moody's Aaa Corporate Bond yield is for analytical consistency. The use of a current bond yield is to capture current underlying market sentiment.
- d. Please see the response to 47b above. The "Market Total Returns" in Schedule DAM-25 are "the average of the Large Company Total Stock Returns (12.3 percent) and the Ibbotson Small Company Stocks Total Return (17.4 percent)."
- e. The CAPM is a risk premium method and using a measured corporate bond risk premium with a corporate bond rate is methodologically consistent.
- f. As noted in the explanations in KPSC DR 2-46b and 47b, the market returns differ because the source data differ and they reveal different market relationships.

Please see the attachment labeled KPSC DR2-47 ATT1 for supporting documentation.

Table 2-1

Total Returns, Income Returns, and Capital Appreciation of the Basic Asset Classes Summary Statistics of Annual Returns

from	1926	to	2005
nom	1920	εO	2000

Series	Geometric Mean	Arithmetic Mean	Standard Deviation	Serial Correlation	
Large Company Stocks		**************************************			
Total Returns	10.4%	12.3%	20.2%	0.03	
ncome	4.2	4.2	1.5	0.89	
Capital Appreciation	5.9	7.8	19.5	0.03	
bbotson Small Company Stocks					
Total Returns	12.6	17.4	32.9	0.06	
Mid-Cap Stocks*					
Total Returns	11.4	14.2	24.7	-0.02	
Income	4.1	4.1	1.7	0.89	
Capital Appreciation	7.1	9.8	24.1	-0.02	
Low-Cap Stocks*					
Total Returns	11,7	15.7	29.5	0.03	
Income	3.7	3.7	2.0	0.89	
Capital Appreciation	7.9	11.7	28.9	0.03	
Micro-Cap Stocks*	• • •				
Total Returns	12.7	18.8	39.2	0.08	
Income	2.6	2.6	1.8	0.91	
Capital Appreciation	10.1	16.1	38.6	30.0	
Long-Term Corporate Bonds					
Total Returns	5.9	6.2	8.5	0.08	
Long-Term Government Bonds					
Total Returns	5.5	5.8	9.2	-0.08	
Income	5.2	5.2	2.7	0.96	
Capital Appreciation	0.1	0.4	8.1	-0.22	
Intermediate-Term Government Bonds					
Total Returns	5.3	5.5	5.7	0.16	
Income	4.7	4.8	2,9	0.96	
Capital Appreciation	0.4	0.5	4.4	-0.19	
Treasury Bills					
Total Returns	3.7	3.8	3.1	0.9	
Inflation	3.0	3.1	4.3	0.6	

Total return is equal to the sum of three component returns; income return, capital appreciation return, and reinvestment return.

*Source: Center for Research in Security Prices, University of Chicago. See Chapter 7 for details on decile construction.

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FEDERAL RESERVE statistical release



H.15 (519) SELECTED INTEREST RATES

Yields in percent per annum

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For use at 2:30 p.m. Eastern Time December 4, 2006

Yields in percent per annum December 4, 2006								
······································	2006	2006	2006	2006	2006	Week	Ending	2006
Instruments	Nov 27	Nov 28	Nov 29	Nov 30	Dec 1	Dec 1	Nov 24	Nov
Federal funds (effective) ^{1 2 3} Commercial Paper ^{3 4 5}	5.32	5.24	5.26	5.31	5.27	5.26	5.24	5.25
Nonfinancial 1-month 2-month 3-month	5.20 n.a. n.a.	5.24 5.24 5.23	5.21 n.a. n.a.	5.22 n.a. n.a.	5,19 5.19 n.a.	5.21 5.22 5.23	5.21 5.16 5.14	5.21 5.19 5.17
Financial 1-month 2-month 3-month	5.23 5.24 5.24	5.22 5.23 5.24	5.23 5.23 5.24	5.24 5.22 5.24	5.23 5.24 5.23	5.23 5.23 5.24	5.23 5.24 5.25	5.23 5.24 5.24
CDs (secondary market) ^{3 6} 1-month 3-month 6-month	5.29 5.32 5.32	5.29 5.32 5.31	5.29 5.31 5.30	5.30 5.31 5.30	5.30 5.31 5.29	5.29 5.31 5.30	5.29 5.32 5.33	5.29 5.32 5.33
Eurodollar deposits (London) ^{3 7} 1-month 3-month 6-month Bank prime loan ^{2 3 8} Discount window primary credit ^{2 9}	5.32 5.37 5.36 8.25 6.25	5.32 5.36 5.33 8.25 6.25	5.35 5.36 5.33 8.25 6.25	5.35 5.36 5.33 8.25 6.25	5.35 5.35 5.28 8.25 6.25	5.34 5.36 5.33 8.25 6.25	5.31 5.36 5.37 8.25 6.25	5.32 5.36 5.37 8.25 6.25
U.S. government securities Treasury bills (secondary market) ^{3 4} 4-week 3-month 6-month Treasury constant maturities	5.16 4.92 4.94	5.18 4.91 4.93	5.17 4.91 4.93	5.14 4.90 4.91	5.14 4.90 4.86	5.16 4.91 4.91	5.15 4.93 4.95	5.13 4.94 4.95
Treasury constant maturities Nominal ¹⁹ 1-month 3-month 6-month 1-year 2-year 3-year 5-year 7-year 10-year 20-year 30-year Inflation indexed ¹¹	5.22 5.05 5.14 5.00 4.71 4.60 4.54 4.54 4.54 4.73 4.62	5.27 5.04 5.13 4.98 4.67 4.57 4.50 4.50 4.51 4.70 4.59	5.26 5.04 5.13 4.98 4.58 4.51 4.51 4.52 4.72 4.61	5.22 5.03 5.10 4.94 4.62 4.452 4.45 4.45 4.45 4.466 4.66 4.56	5.21 5.03 5.05 4.87 4.52 4.43 4.39 4.39 4.43 4.64 4.54	5.24 5.04 5.11 4.95 4.64 4.54 4.48 4.48 4.48 4.49 4.69 4.58	$\begin{array}{c} 5.23\\ 5.06\\ 5.15\\ 5.01\\ 4.75\\ 4.64\\ 4.58\\ 4.57\\ 4.58\\ 4.76\\ 4.66\end{array}$	5.21 5.07 5.15 5.01 4.74 4.64 4.58 4.58 4.60 4.78 4.69
5-year 7-year 10-year 20-year Inflation-indexed long-term average ¹²	2.33 2.29 2.24 2.19 2.14	2.28 2.26 2.21 2.17 2.13	2.28 2.26 2.22 2.19 2.15	2.21 2.19 2.16 2.13 2.10	2.12 2.13 2.10 2.09 2.06	2.24 2.23 2.19 2.15 2.12	2.43 2.36 2.30 2.24 2.20	2.41 2.35 2.29 2.23 2.19
Interest rate swaps ¹³ 1-year 2-year 3-year 4-year 5-year 7-year 10-year 30-year	5.29 5.08 5.00 4.98 4.98 5.01 5.06 5.18	5.24 5.01 4.92 4.90 4.91 4.93 4.98 5.11	5.24 5.00 4.92 4.90 4.91 4.93 4.99 5.11	5.22 4.96 4.89 4.87 4.87 4.90 4.96 5.09	5.11 4.86 4.78 4.76 4.78 4.82 4.89 5.04	5.22 4.98 4.90 4.88 4.89 4.92 4.97 5.10	5.30 5.08 5.01 4.99 4.99 5.02 5.07 5.19	5.30 5.09 5.03 5.01 5.02 5.05 5.11 5.23
Corporate bonds Moody's seasoned Aaa ¹⁴ Baa State & local bonds ¹⁵ Conventional mortgages ¹⁶	5.26 6.15	5.24 6.13	5.25 6.14	5.20 6.10 4.04 6.14	5.18 6.08	5.23 6.12 4.04 6.14	5.30 6,18 4,14 6,18	5.33 6.20 4.14 6.24

See overleaf for footnotes.

n.a. Not available.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 48 Witness: Don Murry

Data Request:

Concerning the Customer Rate Stabilization ("CRS") mechanism and the recommendations of Dr. Murry:

- a. Are you aware that Atmos has requested authorization to implement a CRS mechanism in this rate case?
- b. Explain why Dr. Murry did not adjust the return on equity to account for Atmos's proposed CRS mechanism.
- c. Would you agree that the CRS would reduce a utility's risk from sales fluctuations by adding more stability to revenues, cash flow and earnings without requiring the utility to file a general rate case?
- d. Are you aware that some jurisdictions have reduced a utility's authorized ROE to reflect a reduced risk related to the implementation of similar mechanisms?

Response:

- a. Yes.
- b. The CRS mechanism does not merit an adjustment to the return on common equity because it does not alter the business risk of Atmos.
- c. No. The proposed CRS alters only the variability, and not necessarily the relative level, of the revenue stream that investors anticipate from the company. The proposed rate design, which raises the lower end of the expected company revenues, also reduces the higher end of this range.
- d. Yes.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 49 Witness: Bernard Uffelman

Data Request:

Refer to the Direct Testimony of Bernard L. Uffelman ("Uffelman Testimony"), Exhibit BLU-2, page 1 of 17. Explain the derivation of the returns provided on line 17.

Response:

The returns shown on Exhibit BLU-2, page 1 of 17, line 17 are computed as follows:

Total Operating Margins (Line 1)

Less: O&M Expense (Line 3)

Depreciation & Amortization (Line 5)

Property & Other Taxes (Line 7)

Income Taxes (Line 15)

= Return

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 50 Witness: Bernard Uffelman

Data Request:

Refer to the Uffelman Testimony, Exhibit BLU-2, page 4 of 17.

- a. Provide the basis for allocating 50 percent of the storage costs to demand and 50 percent to commodity.
- b. Provide a list of the costs included in the production category.
- c. Provide a list of the costs included in the transmission category.
- d. Provide the basis for allocating 100 percent of the costs as demand for the transmission and production costs.

Response:

- a. Costs associated with gas storage are incurred to both meet customer demands placed on Atmos Energy Corporation's Kentucky gas system, and to provide the gas commodity to customers. Atmos considers a 50/50 allocation of storage costs to be reasonable and is consistent with the 50/50 allocation of storage costs in Atmos last rate proceeding in Kentucky, Case No. 99-070.
- b. The production costs shown in column a of Exhibit BLU-2, page 4 of 17, line 7 represent the production rate base components listed on Exhibit BLU-2, page 3 of 17, in column e.
- c. The transmission costs shown in column a of Exhibit BLU-2, page 4 of 17, line 5 represent the transmission rate base components listed on Exhibit BLU-2, page 3 of 17, in column d.
- d. Atmos' Kentucky transmission and production plant is sized and constructed to meet the maximum demand placed on the gas system to provide service to customers, therefore, allocation of 100 percent of the transmission and production rate base amounts shown on Exhibit BLU-2, page 4, lines 5 and 7 respectively, is appropriate and consistent with the allocation of these costs in Atmos' last rate proceeding in Kentucky, Case No. 99-070.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 51 Witness: Gary Smith

Data Request:

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Provide electronic versions of Exhibit RRC-1 from the Cook Testimony, GLS-1 through GLS-7 from the Direct Testimony of Gary L. Smith ("Smith Testimony"), and BLU-2 from the Uffelman Testimony.

Response:

Electronic versions of the referenced Exhibits are attached. File names corresponding to the specified Exhibits are as follows:

Case 2006-00464 KPSC DR2-51ATTRRC.xls – Exhibit RRC-1 Case 2006-00464 KPSC DR2-51ATTGLS.xls – Exhibits GLS-1 through GLS -7 Case 2006-00464 KPSC DR2-51ATTBLU.xls – Exhibits BLU-2

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 52 Witness: Gary Smith

Data Request:

Refer to the Application, Volume 3, Tab 12, the Smith Testimony, pages 6 and 7. Mr. Smith discusses the decrease in the average number of active customers since the price of natural gas first spiked in the winter of 2000-2001.

- a. Define an "active customer."
- b. Chart GLS-2 shows an increase of approximately 2,000 in the number of customers in 2003 from the customer levels in 2001 and 2002. Explain, if known, why Atmos experienced an increase in customers during 2003.
- c. Supply any studies, analyses, or other documents that support the explanation that customers are leaving Atmos's system due to the increase in natural gas prices.
- d. Does Atmos expect its proposed increase in rates to cause more customers to leave the system?

Response:

- a. An "active customer" means a customer with an active meter set who therefore receives a monthly base charge.
- b. Atmos Energy believes that its growth to new customers during the period from FY 1999 through FY 2006 has consistently ranged between 1800-2100 per year. Therefore, we believe the difference between this gross growth rate and the net growth (or loss) from year to year represents attrition, or customers lost. Thus, the gain in FY 2003 indicates that our attrition rate was far lower than the other years either due to fewer losses or a return to service by a higher number of inactive customers, or both.
- c. Atmos Energy has not conducted any studies on this issue. However, we reached the conclusion that customer losses are related to higher natural gas costs due to the level of attrition, or customer losses, consistently evident since 2000-2001. The most profound level of attrition occurred in 2000-2001, when the Company suffered the net loss of more than 3000 customers. This occurred in conjunction with the first gas supply price spike, with the average residential bill doubling from the prior year.

Atmos Energy has recently participated in an analysis of price elasticity coordinated by the American Gas Association. Results of that analysis should become available during the conduct of this case. The Company would be pleased to supplement this response with the results of the price elasticity study when published.

d. We do not believe the overall increase request of 4.6% will materially impact customer losses. For the average residential customer, if the full increase request is granted, the total annual increase would be less than \$47 per year. With reference to Chart GLS-1, on page 6 of the Smith Testimony, increases due to gas costs have routinely increased at a rate greater than this amount, often at amounts more than twice that level of annual increase.

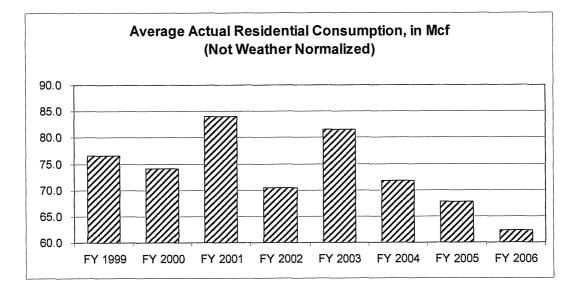
Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 53 Witness: Gary Smith

Data Request:

Refer to the Smith Testimony, page 7, Chart GLS-3. Provide a revision of this chart using actual average residential consumption without weather normalizing the data.

Response:

Please see the chart below for the requested information.



Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 54 Witness: Gary Smith

Data Request:

Refer to the Smith Testimony, pages 11 through 16.

- a. Describe how the revenue and volume forecasts were prepared for the base period in this case.
- b. Explain why the 12-month period ending September 30, 2006, the "reference period," was used to determine the billing determinants for the forecasted test period of July 1, 2007 through June 30, 2008 instead of the base period of April 1, 2006 through March 31, 2007.
- c. Were any sensitivity analyses performed on the revenue and volume forecasts?
 - (1) If yes, describe the analyses and provide the results of the analyses.
 - (2) If no, explain why sensitivity analyses were not performed.
- d. Explain in detail why Atmos did not utilize NOAA data for a 30-year period from 1976 through 2005 in its weather normalization calculations and the Weather Normalization Adjustment mechanism.
- e. Provide a revised Chart GLS-5 that includes NOAA Normal data for the period 1976 through 2005.

Response:

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a. In a process similar to that described for the forecast test year, except with projections only through the end of March 2007.

First, in order to build upon a foundation based on rate case quality billing data, the Company produced bill-frequency reports to isolate correct determinants of bills rendered and volumes delivered. This "reference period" reported the billing determinants to the customer class and rate classification level for the 12-month period ending September 30, 2006. The Base Period and Test Period were both built upon this same foundational reference period.

Then, a number of pro-forma adjustments are applied to the reference period:

 industrial/commercial adjustments to reflect known and measurable contract changes, load changes, new plant additions and closings. These adjustments are summarized on Exhibit GLS-3 of the Smith Testimony. Electronic copies of all the GLS Exhibits are provided in response to KPSC DR 2-51, and include supporting workpapers. Workpapers for the multitude of industrial/commercial contract and volume changes are attached as Attachment KPSC DR 2-54(a).

- 2) adjust firm residential, commercial and public authority volumes to correlate to normal HDD's, as currently defined (NOAA NDDs for 1961-1990). These adjustments are shown on Exhibit GLS-4.
- 3) forward-looking adjustments from this reference period to the Base Period could also include a declining usage projection and a growth projection. However, for declining usage, the Company did not assume a further decline for the year following the reference period (due to the abnormally steep decline in FY 2006). And, the net customer growth assumption for future periods was zero. So, neither of these adjustments impacted the Base Period.

Lastly, for monthly filing requirement schedules, the Company supplied the required 6-months of per-book actual results. Therefore, the Base Period filing also includes affects of weather variances and does not include the normalization adjustments for industrial/commercial volumes outlined above. The derivation of the pro-forma, annualizing adjustments described above are utilizing for the budget months of September 2006 through March 2007.

- b. As stated in testimony and in the Company's response to KPSC DR 2-54(a) above, the chose the reference period in order to build upon a foundation of rate case quality billing data. For this 12-month period ending September 30, 2006, the Company produced bill-frequency reports to isolate correct determinants of bills rendered and volumes delivered to the customer class and rate classification level. The Base Period and Test Period were both built upon this same foundational reference period.
- c. The only sensitivity analyses performed by the Company for the revenue budgets were in regard to weather. The weather adjustment of the reference period and derivation of corollary factors is shown on Exhibit GLS-4 of the Smith Testimony.

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- d. As indicated in the Company's response to KPSC DR 2-6(b), we do not believe NOAA has published any reports relating to 30-year NDD data for the period from 1976-2005. It is our belief that the most current NOAA 30year NDD publication is for the period of 1971-2000, which is why we chose that basis for this Case. Please also refer to the Company's response to KPSC DR 2-6(a).
- e. It is the Company's understanding that NOAA has not published any 30year NDD reports for the period of 1976-2005. Subsequent to our receipt of this data request, we researched the NOAA website to determine what information was available for the stated period to produce the revised Chart GLS-5. Even though the most recent NOAA publication of 30-year NDDs is for the period of 1971-2000, their website indicates that a "dynamic normals" tool is available which allows a user to select a more current timeframe than the latest published NDD report. We attempted to view a report for the period from 1976-2005, but the web-tool responded that the requested data was only available "through DEC 2001."

Please also refer to the Company's response to part (d) of this data request and to KPSC DR 2-6(a) and (b).

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Attachment KPSC DR 2-54(a) Sheet 1 of 6

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	Account Customer	Comment	Service	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	lul	Aug	Sep
Classification Classif	100	1	G-1 Ind Sales	(2,273)	(2,724)	(2,934)	(3,556)	(3,512)	(3,444)	(3,724)	(3,527)	(3,994)	(3,156)		
C 1 Structure (p00) C 1 Structure	down wr and the astronomy between a substrated of the full of the	G-1 Ind Sales Bill	daj den en ej forman en als pare ago en ego den ego den ante	(1)	(1)	(1)	(1)	(1)	Ð	(1)	(E)	ε	(1)		
Constraint (1) (2)		C-10-300 Method		(UUE)	(300)	(1002)	(300)	(300)	(300)	(300)	(300)	(300)	(300)		
Constrained Constrained (Constrained (Constrained) Constrained (Constrained) Constrained) Constrained) Con		G-1 301-15000 Mcf/mo		(1.973)	(2.424)	(2.634)	(3.256)	(3.212)	(3.144)	(3.424)	(3.227)	(3,694)	(2,856)		
Control (rel 16 / M) Enter 1 - 2 / M 2 - 2 / M		G-1 > 15000 Melimo			ī	ī		Ĭ							
1 value 1 value </td <td></td> <td>Control Mountain</td> <td>T. J. Chimana</td> <td>5 577 C</td> <td>PCL 6</td> <td>2 034</td> <td>3 556</td> <td>3 517</td> <td>YYY S</td> <td>3 774</td> <td>3 597</td> <td>7994</td> <td>3 156</td> <td></td> <td></td>		Control Mountain	T. J. Chimana	5 577 C	PCL 6	2 034	3 556	3 517	YYY S	3 774	3 597	7994	3 156		
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17-3 15000 1000 <t< td=""><td></td><td>T-3 Bill</td><td></td><td>E</td><td>Ē</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		T-3 Bill		E	Ē										
Carrent Chi (chi (chi (chi (chi (chi (chi (chi (c		T-3 0-15000 Mcl/ma		(426)	(040)										
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(-1) (-1) <th< td=""><td></td><td>G-1 0-300 Mcf/mo</td><td></td><td>(300)</td><td>(006)</td><td>(300)</td><td>(300)</td><td>(300)</td><td>(300)</td><td>(300)</td><td>(300)</td><td>(006)</td><td>(300)</td><td></td><td></td></th<>		G-1 0-300 Mcf/mo		(300)	(006)	(300)	(300)	(300)	(300)	(300)	(300)	(006)	(300)		
Control Control <t< td=""><td></td><td>G-1 301-15000 Mcl/ma</td><td></td><td>(1,585)</td><td>(2,268)</td><td>(3,387)</td><td>(4,597)</td><td>(4,897)</td><td>(4,410)</td><td>(067,6)</td><td>(1,996)</td><td>(2,202)</td><td>(1,734)</td><td></td><td></td></t<>		G-1 301-15000 Mcl/ma		(1,585)	(2,268)	(3,387)	(4,597)	(4,897)	(4,410)	(067,6)	(1,996)	(2,202)	(1,734)		
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		T-4 301-15000 Mcl/mo		(2,255)	(2,078)										
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Attachment KPSC DR 2-54(a) Sheet 2 of 6

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560 080 05000 0 Contr Ch (62 to 1 G-2 Conn Int sale G-2 Conn Int sale G-2 0-15000 McI G-2 0-15000 McI G-2 0-15000 McI T-3 0-15000 McI T-3 0-15000 McI T-4 0-300 McI T-4 0-300 McI T-4 0-300 McI T-4 0-300 McI T-3 0-15000 McI	2. Io T.3) 411/06 t sales Bill I Morrimo O Morrimo 22. Io T.3) 411/06 22. Io T.3) 411/06 22. Io T.3) 411/06 22. Io T.3) 411/06 20. Morrimo 00. Morrimo 00.0 Morrimo 00.0 Morrimo p.May	G-2 Com Sales 1-3 Carriage	(2,138) (1) (2,138)	(2,600) (1) (2,600)		(1,150) (1)	(47) (1)	(err,r) (6)						部の派遣
	Aritice Need	T.3 Carriage				E	Ξ	12						
	Withde	T-3 Carriage						Ð						
	411/D6 6 Need	T-3 Carriage			(2,014)	(1,150)	(47)	(1,115)						
	4/1/06 o 6 Need	T-3 Carriage									All a conservation of the			Acres 200
	6 Need		2,138	2,600	2,014	1,150	47	1,115						
	1000 Mcf/mo 1000 Mcf/mo 1000 Mcf/mo 15000 Mcf/mo 15000 Mcf/mo 15000 Mcf/mo 15000 Mcf/mo 15000 Mcf/mo 15000 Mcf/mo				A DESCRIPTION OF		and the second	North Control of Contr						的问题
	5000 Mct/mo 3000 Mct/mo 300 Mct/mo -15000 Mct/mo 5000 Mct/mo 5500 Mct/mo 5500 Mct/mo 5500 Mct/mo	- of the same of a factometer in the factor of the same factor of the same of	-	-				-						
	5000 Mc/mo 00 Mc/mo 5000 Mc/mo 5000 Mc/mo 51016 Meed 51016 Need		2,138	2,600	2,014	1,150	42	1,115						
	00 Mc/mo -15000 Mc/mo 5000 Mc/mo 5000 Mc/mo 5000 Mc/mo (Sep-May									and a second statement of the				
	00 Mct/rmo -15000 Mct/rmo 5000 Mct/rmo started 6/2006 Need rSep-May	T-4 Carriage	(3,133)	(2,000)	(1,169)	(1,867) ((1,133)	(829)					
	J0 Mct/mo -15000 Mct/mo 5000 Mct/mo started 6/2006 Need rSep-May	and the second secon	Ð	£	£	£	Ê	£	Ē					
	Ju Nicutto -15000 Mcf/mo 5000 Mcf/mo stanted 6/2005 Need r Sep-May		13001	(300)	(300)	(300)	(300)	(300)	(300)					
	-15000 Mct/mo 5000 Mct/mo started 5/2006 Need r Sep-May		(000)	(002.1)	(usor	14 5671	(978)	(833)	(623)					
	5000 Mcf/mo started 6/2006 Need r Sep-May		(2,833)	(nn/'L)	(800)	(inc'i)	intel	1222						
	started 6/2006 Need r Sep-May					and the second	Capital and the way had		012314230000394749			112-11-11-11-11-11-11-11-11-11-11-11-11-	100000000000000000000000000000000000000	10000000000
	Sep-May	T-3 Carriade	の時間の時間の時間の											
		No. of the second s			「「「「「「「「「「」」」」」		COMPANY PRIME	Contraction and the second	orasago batanan take waya	a 2% (major 2011) 11. C. Common	a mana and when the second of the			
			-											
	r-3 0-15000 Mcl/mo													
	T_3 > 15000 Mcl/mo										the second s	1. [7] mar 41. [7]	5000 T T T	
	ped load	T-3 Carriage	3,000	3,000 3,000 3,000	3,000	3,000	3,000 3,000		3,000	3,000	3,000 3,000 3,000 3,000	3,000	3,000	3,000
T-3 0-15 T-3 0-15 T-3 > 15		BLEER RURPH - and - Adda	ar again o air gana air an an an	or Approximately and a state of the	and a second									
T-3 > 15 T-3 > 15			0	D	0	0	0	0	0			3,000	3,000	2,952
T-3 > 15			000 6	2000 2	2 000	3 000	3 000	3.000	3.000	3,000	3,000	0	0	48
	T-3 > 15000 Mct/mo		2,000			- 籠	re non	THE PARTY NEWSFER			100	(1000)	(10,000)	
551 080 03600 0 ADJUS	ADJUSTMENT	1-1-1-1-10 Sales			600170	65 -	100 million			a harvest and a state of the		8	ويعتقرهم والمتعاولات	
	G-2 Ind Int Sales Bill				[1000				(F 871)			(6.540)	
G-2 0-1	G-2 0-15000 Mcf/mo				(1,4,1)	(105'0)							13 AGN	
	G-2 > 15000 Mcf/mo				(24,523)	(1,019)	STATES STATES		CONTRACTORIS CONTRACTORIS	10,1631	CHEROSCO DE LA CONTRA DE LA CON			
551 080 03610 0 ADJUS	ADJUSTMENT	T-2/G-2 Ind Sales		(6,000)	(20,000)	No. of Concession, Name				and the second second	and the second second			North States
na manana man	G-2 Ind Int Sales Bill													
G-2 0-1	G-2 0-15000 Mcf/mo			(5,358)	(6,130)									
1~2~1	G-2 > 15000 Mclimo			(642)	(13,870)				and the second second second	and and other set of the set of the	Cardina and a second	of an address of the second		
	AD ILISTMENT	T-4 Carriade	(3.000)	(2,000)	(2,000)									
	The subscription of the su		And and set of the work of the		Shows an and the second second	And April 1 and and Application of Application	A TOTAL AND A REPORT OF A DOLLAR AND A							
10-10 4 -1			1000	1000 67	1000 67									
T-4 301	r-4 301-15000 Mct/mo		innn'n)	1000171	inno's									
	T-4 > 15000 Mcl/mo				enn e	2 EUU	2 000	onn c	000 ¢	2 000	2 000	2.000	2,000	2,000
Prem 365458 New Ct	New Customer	G-1 Ind sales		100 A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A		Contract of the local data	CREW TANK TOP		and and a second relationship	STRUCTURE STRUCT	ana an- 1999	orm.com; vecentry	onen la contracto	
G-1 Ind	G-1 Ind Sales Bill		-	- 1			- 000	- 006	5005	300	300	300	300	300
G-1 D-3	G-1 0-300 Mcf/mo		300	300	300	005	2000			002.7	1700	1 700	1 700	1 700
G-1 30	G-1 301-15000 Mcf/mo		1,700	2,700	3,200	3,200	Z,700	nn/'L	nn/'1	nn / 1	00.1	00.1,1	2021	201
6-1 > 1	G-1 > 15000 Mcf/mo							and the second se	Tom office to second		000007780004160	100-0-0-0-000		C. LUCON
Doom Seened	New Clistomer	G-1 Ind Sales	100	300	500	600	300	300	100	10	10	10	n.	n Carl
		statement of the former of the statement of the statement of the	ender of the field of the other and the first of the firs	-		-		-	-	۳		-		
	ma sales n		100	300	300	300	300	300	100	10	10	10	10	10
6-1 0-2	G-1 U-200 MICHING			4		006	c	c	c	c	0	0	0	0
G-1 30	G-1 301-15000 Mcl/mo		C	þ	2002	200	•	5	,					
	G-1 > 15000 Mcf/mo	And the second se		1.11 - 1.1 -		ALL AND ADDRESS OF A DESCRIPTION	2002 AN AV 2022	N OC N	ALL NO.	1100	N JEAN	(6Pb)		で何の成功
Prem 198418 Contr C	Contr Ch (G1 to T4) 8/1/06 G-1 PA Sales	G-1 PA Sales	(943)	(1:231)	(1,499)	(1,083)	(1,444)	/+co'l)	leet N				STANSA STAN	
(a) A set of the set of t set of the set	G-1 PA Sales Bill		ε	Ξ	Ξ	(E)	Ξ	E	E	5	11	(1)		
G-1 D-2	G-1 0-300 Mcf/mo		(00E)	(300)	(300)	(300)	(300)	(100)	(1005)	(nne)	(nnc)	(onc)		
	G_1 301_15000 Mcf/mo		(643)	(337)	(1,199)	(1,383)	(1, 104)	(1,354)	(1.135)	(568)	(964)	(64a)		

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Attachment KPSC DR 2-54(a) Sheet 3 of 6

Attachment KPSC DR 2-54(a) Sheet 4 of 6

Total (1) Control (1) (1) (1) Control (1) (1) (1) Control (1) (1) (1) Control (1) (1) Control (1) (1) Control (1) (1) Control (1)		Customer	Comment	Service	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
14 att 14 att<	CALCONS ST		Contr Ch (G1 to T4) 8/1/06	T-4 Carriage	943	1,237	1,499	1,683	1,404	1,654	1,435	1,195	1,264	949	Solution and the second se	Allowing the second
14 3 (1) 1 (2)		and a subscription of the product of the second	T-4 Bill	a na manana na manana na manana manana manana kata na manana kata na manana na manana na manana na manana na ma		-	-	-	-	-	-	-	-	•		
1-3 1-1 <td></td> <td></td> <td>T-4 0-300 Mcl/mo</td> <td></td> <td>300</td> <td></td> <td></td>			T-4 0-300 Mcl/mo		300	300	300	300	300	300	300	300	300	300		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			T-4 301-15000 Mcf/mo		643	937	1,199	1,383	1,104	1,354	1,135	895	964	649		
Current Control Current Co			T-4 > 15000 Mcf/mo													
Control Control <t< td=""><td>Prem 229321</td><td></td><td>Contr Ch (G1 to T4) 9/1/06</td><td>G-1 Com Sales</td><td>(1,500)</td><td>(628)</td><td>(154)</td><td>(1,102)</td><td>(1.718)</td><td>(1,832)</td><td>(1,748)</td><td>(1,800)</td><td>(1,724)</td><td>(1,675)</td><td>(1,251)</td><td></td></t<>	Prem 229321		Contr Ch (G1 to T4) 9/1/06	G-1 Com Sales	(1,500)	(628)	(154)	(1,102)	(1.718)	(1,832)	(1,748)	(1,800)	(1,724)	(1,675)	(1,251)	
C 1 300 Melline C 1 30	and the distribution of which will not be distributed for the factor		G-1 Com Sales Bill	an - an	(1)	£	(F)	Ð	E	£	£	£	£	(E)	£	
C 131 : 1 1000 Melline C 130 (12 M) C 130 (12 M) <thc (12="" 130="" m)<="" th=""> C 130 (12 M) C 13</thc>			G-1 0-300 Mcf/mo		(300)	(300)	(154)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			G-1 301-15000 Mcf/mo		(1,200)	(328)	0	(802)	(1,418)	(1,532)	(1,448)	(1.500)	(1,424)	(1,375)	(951)	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			G-1 > 15000 Mef/mo													
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Popoco mano		Contrict /G1 to TAV 9/1/06	T.A Carriane	1,500	628	154	1 102	1.718	1.832	1.748	1.800	1.724	1.675	1,251	E S A R B S A S A S A S A S A S A S A S A S A S
1 - 1.0.00 Methins 1.0 200 100	170077 11011			A DESCRIPTION OF A DESC			NG (Commercial)	1500	196 Semilaro (1963).	1977 (1981) - 1977 (1977) 1977 - 1977 (1977)	atestanican penata	dd Gert syn agenyr y frant de	statility as tagen to down M	alkada uzuri veraco	operation and the	5-16-10 MDH 0-1-1-1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					- 005	1006	+EA	005	100	100	300	300	300	300	300	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			1-4 0-300 Mci/mo		000	000	5						PO0 1	1 276	051	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			T-4 301-15000 Mcf/mo		1,200	328	0	208	1,418	1,032	1,440	nnc'i	424,1	c/c'1	105	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			T-4 > 15000 Mcl/mo										1000	And a second		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Prem 142289		Contr Ch (G1 to T4) 8/1/06	G-1 PA Sales	(3,653)	(5,174)	(5,526)	(5,336)	(5,279)	(4,377)	(3,656)	(4,372)	(3,310)	(3,366)	(2,973)	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	la su estador a su og Specimienen nadalik sedela edding high Unit og	o antaŭ en la bilikta kaj kaĝente el kalente dato e su	G-1 PA Sales Bill	ang internet with the second construction of the Lands of the second second second second second second second	£	£	Ð	£	£	£	E	(1)	£	£	£	
C = 10 + 1000 Method C = 10 + 1000 Method C = 30 + 1000 Method C = 30 + 100 Method </td <td></td> <td></td> <td>G-1 0-300 Mcl/mo</td> <td></td> <td>(300)</td> <td>(300)</td> <td>(300)</td> <td>(300)</td> <td>(300)</td> <td>(300)</td> <td>(300)</td> <td>(300)</td> <td>(300)</td> <td>(002)</td> <td>(300)</td> <td></td>			G-1 0-300 Mcl/mo		(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(002)	(300)	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			G-1 301-15000 Mcf/mo		(3,353)	(4,874)	(5, 226)	(5,036)	(4,979)	(4,077)	(3,356)	(4,072)	(3,010)	(3,066)	(2,673)	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			G-1 > 15000 Melium													
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			Control Act to Tay BM 06	T. L' Primera	3 643	E 174	5 826	5 336	5 279	A 377	3 656	4 372	3.310	3.366	2.973	などの思想で
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	PIEM 142203													2017-0	2017-11-11-10-10-10-10-10-10-10-10-10-10-10-	110000 (NACC)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								- 000	- 000	- 006	- 006	1000		102	300	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			T-4 0-300 Mct/mo		300	200	300		000		000	010				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			T-4 301-15000 Mcf/mo		3,353	4,874	5,226	5,036	4,979	4,077	000'0	4,0/2	010,6	o'noo	c/0/7	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						A State	and the second second		100 million - 1000	100	00		ale an an include	10.75	10.000 mm mm m m m m m m m m m m m m m m	The second second
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Prem 148854			G-1 PA Sales	(1,006)	(828)	(1,187)	(1,169)	(946)	(1,265)	(966)	(305)	(1,031)	(834)	(336)	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			G-1 PA Sales Bill		(1)	E	(1)	£	£	£	(1)	(1)	£	£	3	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			G-1 0-300 Mcf/mo		(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	
C1 > 15000 Mcfmo Contr Ch (g1 to 11) Ditate 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,16 1,11 1			G-1 301-15000 Mcf/mo		(106)	(528)	(887)	(869)	(646)	(365)	(969)	(605)	(131)	(534)	(969)	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			G-1 > 15000 Mcf/mo													
	Prem 148854		Contr Ch (G1 to T4) 8/1/06	T-4 Camage	1,006	828	1,187	1,169	946	1,265	966	905	1,031	834	966	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	high of the data for the second state of the first of the second s	1999 - 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	G-1 PA Sales Bill	and the second se	anures provementaria e crar	1000000000000	ARTRANTICS CONTRACTOR		1	107367 November - 1027 N		ana manana ing manana ang	1	-	-	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			G-1 0-300 Mcf/mo		300	300	300	300	300	300	300	300	300	300	300	
G1 > 15000 Metimo Closing T-4 Carriage (1 90) (2,572) (3,428) (2,583) (2,540) (1,104) (631) (410) (552) (3,41) T -4 Sino Metimo (1 0)			G-1 301-15000 Mcf/mo		706	528	887	869	646	965	696	605	731	534	696	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			G-1 > 15000 Mcf/mo													
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	560 080 01001 0		Closing	T-4 Camage	(1,980)		(3,428)	(2,863)	(3,285)	(2,640)	(1,104)	(631)	(410)	(362)	(341)	(413)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Re Three work of the state of the street of the state of	NANYAN SULAR MANDALANA ZARANA UNIYAN MAN	T-4 Bill	contractive of set of platformation, while many of the series of the	Ð		(f)	£	£	£	£	3	£	Ξ	Ξ	£)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			T-4 0-300 Mcf/mo		(300)		(300)	(300)	(300)	(300)	(300)	(006)	(300)	(00E)	(300)	(300)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			T-4 301-15000 Mcf/mo		(1,680)		(3,128)	(2,563)	(2,985)	(2,340)	(804)	(331)	(110)	(62)	(41)	(113)
Contrict (G1 to T4) T2/106 G-1 Cain Sales (B47) (1,009) (226) (333) (751) (304) (557) (74) G-1 Com sales Bill G-1 Com sales Bill (1)			T-4 > 15000 Mcf/mo													
G-1 Com Sales Bil (1)	Shelbwille		Contr Ch (G1 to T4) 12/1/06	G-1 Com Sales	(861)	(688)	(917)	(1,009)	(926)	(934)	(838)	(751)	(804)	(657)	(744)	(758)
G-1 0-300 Mc/Imo G-1 0-300 Mc/Imo<	transferrer on second particular (% AAU 2008 (% AU)	ere and weighter southing the second	C-1 Com Sales Bill	1993 CORONALINA NA N	(1)	3	(1)	(5)	(E)	6	E	£	E	Ξ	£	(E)
G-1 301-15000 Mc/mo G61 (589) (617) (709) (626) (634) (538) (451) (504) (357) (441) G-1 > 15000 Mc/mo G-1 > 15000 Mc/mo G-1 > 15000 Mc/mo 851 869 917 1,009 925 994 838 751 804 657 744 T-4 Bill 1 1 1 1 T-4 Bill 1 1 1 1 1 T-4 0300 Mc/mo 300 300 300 300 300 300 300 300 300 300			G-1 0-300 Mcl/mo		(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(00£)	(300)	(300)
G-1 > 15000 Mc/ma Contri Ch (G1 to T4) 12/105 T-4 Carriage 861 889 917 1,009 926 994 839 751 804 657 744 T-4 801 T-4 900 Mc/ma T-4 900 Mc/ma T-4 90-300 Mc/ma T-4 90-300 Mc/ma T-4 910-15000 Mc/ma S61 589 617 709 526 694 538 451 504 337 444			G-1 301-15000 Mcl/mo		(561)	(583)	(617)	(602)	(626)	(694)	(538)	(451)	(504)	(357)	(444)	(458)
Contr.Ch (G1 tb T4) T21 t05 T4 Camiage 861 869 917 1,009 925 994 638 751 804 657 744 T4 Bill T4 Bill 1 <			G-1 > 15000 Mcf/mo													
T.4 Bill 1 1 1 1 1 1 1 1 1 T.4 0.300 Mcf/mo 300 301 414	Chalhwilla		Contr Ch (G1 th TA) 12/1/06	T.4 Carriane	861	889	917	1.009	926	994	838	751	804	657	744	758
D0 Mc/imo 300 300 300 300 300 300 300 300 300 30	CHOID YVIII OF A CARACTERISTICS OF A CARACTERI				PARTIN STATISTICS AND ADDRESS	aller and a second second	and the second second second	14,6,6,5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1	20/00101000000 1 0.000	n in the line of the second	6868126652455	obranizeron fanja	//////////////////////////////////////	aposantantan - 1760	1 1
561 569 617 709 626 694 538 451 504 357 444			T_A 0.300 Mc/mo		300	300	300	300	300	300	300	300	300	300	300	300
					197		E47	202	676	EQ.	538	451	504	357	444	458
			0001-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		100	800	10	en.	070	+20	200	2	100	200	ļ	

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Account	Customer	Comment	Service	Oct	Nov	Dec	Jan	Feb	Mar	Арг	May	Jun	Jul	Aug	ceb
Camphellsville	A second submitted of the first of the second submitted of the second second second second second second second	Contr Ch (G1 to T4) 12/1/06	G-1 Ind Sales	(1,248)	(1,502)	(2,590)	(3,206)	(4,116)	(4,242)	(2,894)	(2,320)	(2,557)	(1,934)	(2,215)	(1.764)
and the sector state water of the sector		and wants were to be set a state with the set of the se	andourseloonse nie en helden sokaat nie de beer helden heere.	(1) (1)	(1)	(F)	£	Ð	E	E	E	Ð	E	£	E
		G-1 0-300 Mcf/mp		(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)	(300)
		G-1 301-15000 Mcf/mo		(948)	(1,202)	(2,290)	(2,906)	(3,816)	(3,942)	(2,594)	(2,020)	(2,257)	(1,634)	(1,915)	(1,464)
		G-1 > 15000 Mcf/mo								1000 Personal Perso Personal Personal P					
Camballevilla	State of the state	Contr Ch (G1 to T4) 12/1/06	T-4 Camage	1,248	1,502	2,590	3,206	4,116	4,242	2,894	2,320	2,557	1,934	2,215	1,764
			o kitiyang se ang sang sang na 🗸 sa Ar ting (na ata t	onderstand (C) was related	nane na manana		-	-	-	-		-		-	
		T_4 0_300 Mcf/mp		300	300	300	300	300	300	300	300	300	300	300	300
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Attachment KPSC DR 2-54(a) Sheet 5 of 6

Attachment KPSC DR 2-54(a)

Sheet 6 of 6

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Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 55 Witness: Gary Smith

Data Request:

Refer to the Smith Testimony, page 20. Explain how Atmos's agreement with BP Energy affects the agreement Atmos currently has with its asset manager, Atmos Energy Marketing, approved by the Commission in Case No. 2006-00194.

Response:

In accordance with the referenced case, Atmos Energy Marketing (AEM) serves as the full-requirements supplier and asset manager for Atmos Energy's Kentucky operations. Therefore, the only effect of the enterprise-level agreement with BP Energy for Kentucky is in conjunction with hedging transactions. Kentucky's financial hedges are in the form of over-the-counter swaps through counterparties such as BP Energy and are outside the parameters of the asset management agreement with AEM or Atmos Energy's Performance-Based Ratemaking mechanism.

Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 56 Witness: Gary Smith

Data Request:

Refer to the Smith Testimony, page 22 and to the Application, Volume 1, Tab 6, FR 10(1)(b)(7), Proposed Tariff, Original Sheet 42.1 through 42.4.

- a. Does the CRS mechanism provide for any consideration of the appropriate rate of return on equity as part of each annual review? Explain why or why not.
- b. Does the CRS provide for consideration of the reasonableness of the costs and expenses incurred during the Evaluation Period or proposed for the Rate Effective Period? Explain why or why not.
- c. Does the CRS provide for updating the cost of debt as part of each annual review? Explain why or why not.
- d. Explain how the Commission, the Attorney General ("AG") and Atmos's customers can be assured that rates are appropriate if there is no consideration of the appropriate return on equity or consideration of the reasonableness of the costs and expenses.
- e. Have any of the credit rating agencies published any information that leads Atmos to believe that it needs a CRS in order to maintain an acceptable credit rating? If yes, provide the documentation.
- f. Explain why Atmos is proposing that the CRS be a 5-year experimental program rather than a 2-year, 3-year or 4-year experimental program.
- g. Explain why Atmos believes that the CRS mechanism provides for a financially transparent rate review process.
- h. Explain why Atmos believes that the review and adjustments anticipated under the CRS mechanism can be performed at a very low cost.
- i. Is Atmos familiar with any other gas distribution company utilizing the CRS as proposed in this case? If, yes, identify those companies and the period under which they have used the CRS.

Response:

- a. No. The CRS is not simply a traditional rate case compressed into a narrower time frame. The CRS is designed to allow costs and revenues to be annually updated to ensure that the rates in place continue to earn no greater or less rate of return than established in the most recent rate case. The CRS was designed as a low cost, pilot program for a limited time period. Nothing in the proposed CRS mechanism prohibits the Commission from choosing to review the Company's return at any time nor prohibits the Company from filing a traditional rate case in order to have its return revisited.
- b. Yes for both. It is anticipated that the focus of the CRS, in fact, will be the reasonableness of the costs and revenues to be updated and projected, as

opposed to other issues which often consume much time and attention during a rate case.

- c. Yes. Interest costs regularly change and it is appropriate that they be updated with each filing.
- d. Rates under the CRS will be more reasonable than they are under traditional rate case regulation because underlying costs and revenues will be reviewed annually (as opposed to every five years or so) and updated to ensure that rates continue to earn no greater or lesser rate of return than established in the most recent rate case.
- e. Yes, Moody's Investors Services has issued a report and a rating action. The report titled "Local Gas Distribution Companies: Update on Revenue Decoupling and Implications for Credit Ratings" was issued June 2006 while the rating action for Southwest Gas Corporation was issued March 10, 2006. We believe the referenced report is somewhat applicable to our CRS proposal, as the report uses the term 'revenue decoupling" (RD) in the broadest terms, as is evident in the following passage:

"It appears that LDCs that already have full RD [revenue decoupling] similar to the "balancing accounts" including revenue normalization adjustments or customer utilization trackers being employed in certain jurisdictions such as California, Maryland and North Carolina, prefer to keep their rate designs intact as they are easily administered and allow for full recovery of their authorized margins. Most other companies that currently have WNC [weather normalization clauses] in some of their jurisdictions however, prefer to keep the conservation margin tracker or tariff separate, for the reason that their current WNC provide real time cash flow and earnings adjustments whereas the conservation trackers typically provide after-the-fact cash flow adjustments through deferral accounts that are collected over a subsequent 12-month period."

Please also refer to KPSC DR 2-59a for additional information about our CRS proposal and decoupling. The referenced documents are attached hereto as Attachment KPSC DR 2-56(e).

- f. The five year CRS pilot program would allow the Company and Commission the opportunity to observe this proposed mechanism over a time period which is roughly equivalent to the duration between traditional rate cases. While the Company is open to discussing alternative time periods, it believes the best approach is to allow several CRS filings before drawing conclusions as to the effectiveness of the process.
- g. It is the annual review process that provides financial transparency. More frequent filings also ensure rates earn no greater or less rate of return than the return established in the most recent rate case. Absent annual reviews, the Commission insight into the Company's finances becomes less clear over time.
- h. An annual review is not simply a traditional rate case condensed into a smaller time frame. An annual review would involve fewer processes and require less time for the Company and the Commission than a traditional rate case. Many traditional rate case costs incurred by the Company and the Commission would be eliminated or substantially reduced because many traditional rate case processes would be eliminated or simplified.

Among the traditional processes to be eliminated would be the preparation, filing and review of rate case testimony, and the preparation of special studies for depreciation, cost of capital and rate design (often performed by consultants). Because we envision a more streamlined approach to conducting an annual review, we would expect to incur less legal fees, less office supply expense, less printing and copying costs, less employee overtime or temporary labor expense, and less employee related expense.

Refer also to the Company's response to KPSC DR 2-58(d).

- i. The following is a list of Companies where periodic reviews similar to the proposed CRS exist and when the mechanism commenced:
 - Alabama Gas Alabama (1983)
 - Atmos Energy Louisiana Gas Service (2001)
 - Atmos Energy Trans Louisiana (1991)
 - Atmos Energy Mississippi (1992)
 - CenterPoint Texas (1982)
 - CenterPoint Energy Mississippi (1996)
 - CenterPoint Energy Louisiana (2004)
 - CenterPoint Energy Oklahoma (2006)
 - Entergy New Orleans (2003)
 - Mobile Gas Alabama (2002)
 - Piedmont Natural Gas South Carolina (2005)
 - South Carolina Electric & Gas South Carolina (2005)

Attachment KPSC 2-56(e) Sheet 1 of 10

Special Comment

June 2006

Contact	Phone
<u>Vew York</u> Edward Tan Vilhoko Manabe John Diaz	1.212.553.1653

Local Gas Distribution Companies: Update on Revenue Decoupling And Implications for Credit Ratings

Summary Opinion

- With natural gas prices expected to remain at high levels, local gas distribution companies (LDCs) face earnings and cash flow pressures as their customers increase conservation efforts. In addition, bad debt expense has increased as more customers face increasing difficulties in paying their bills. Furthermore, LDC volumes remain subject to weather conditions.
- Moody's analyzed its gas LDCs (local distribution companies) and notes that weather normalized winter
 gas consumption in per customer usage has declined at an increased pace since 2003. This decline coincides
 with a period of steadily rising natural gas prices for the LDCs and steadily falling heating degree days.
- Had gross margins (gas revenues less cost of gas and associated gas taxes) been fully protected against gas
 consumption declines on account of customer conservation during the past five winters, they would have
 been higher by an average of \$5.2 million in 2004 and \$4.6 million in 2005. One company would have
 increased its profits by \$18.3 and \$11.6 million in those two years (3% and 2% of gas margins, respectively).
- Bad debt expense has shown a steady average increase in each of the past four winters, tracking the increase in natural gas prices during the same period.
- Despite the general increase in working capital and natural gas prices, LDC short-term debt has remained relatively flat from 2003-2005.
- Except for a handful of jurisdictions that employ full revenue decoupling (RD) through a mechanism akin to "balancing accounts" (California, Maryland and North Carolina), most companies prefer to keep the weather normalization clause (WNC) rate design separate from the conservation margin tracker.
- While some jurisdictions permit the application for RD to be requested outside the procedural norms of a full rate case, most would prefer a full rate case or rate review.
- LDCs pursuing a full or partial RD feel that it is an important aspect of their rate design requirements and
 most companies indicated that they would continue filing for it until their regulators gave final approval.
- Moody's observes that in the face of volatile natural gas prices, volatile weather patterns and other exogenous forces that would prompt gas customers to curtail gas consumption volumes from their utilities, LDC earnings and credit metrics will come under pressure.
- LDCs that have, or soon expect to have, RD stand a better chance than others in being able to maintain
 their credit ratings or stabilize their credit outlook in face of adversity. This difference between those companies that have RD and those that do not will tend to be further accentuated as the credit demarcation
 reflected through rating actions becomes more evident.



Introduction

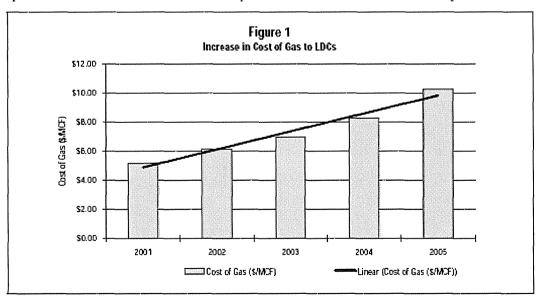
At this time last year, Moody's published its first study dedicated to the question of gas conservation and its impact on gas LDC earnings and credit ratings (see Moody's June 2005 Special Comment titled *Impact of Conservation on Gas Margins and Financial Stability in The Gas LDC Sector*). We found that while many companies were aware of the conservation factor and 18 of the 34 gas LDCs followed by Moody's could quantify the loss in their per customer volume consumption, only a handful of companies had taken the step to incorporate it into their rate design so that their gross margins would be unaffected. Last year we also discussed how three companies were approaching this rate design feature through slightly different decoupling mechanisms. While the approach may be different, the concept and end result are not. Companies in the gas utility business are increasingly interested in not only protecting themselves against gross margin variations caused by customer conservation (partial decoupling), but also by weather variations (full decoupling).

In keeping with the evolving convention, we will refer to these mechanisms as revenue decoupling (RD) in general terms and to "partial decoupling" to mean rate design protection for conservation or "full decoupling" to mean rate design protection for both conservation and weather variations. When a company only has weather normalization clause protection, we refer to the rate design as WNC. Fewer companies have conservation rate design protection without also having WNC as permanent features of their ratemaking.

As with our previous study, we define "conservation" as any technical advancement that improves home heating or gas appliance efficiencies as well as the curtailment of consumption on account of high gas commodity prices. Twenty three of the 34 gas LDCs followed by Moody's responded to various questions posed by Moody's and their results have been tabulated and presented in this paper in aggregate form in order to protect the confidentiality of information submitted.

Nationwide Trend of Rising Gas Prices and Falling Heating Degree Days

Companies overall responded that they were experiencing rising natural gas prices during the past five winter heating seasons, with their average gas purchase prices depicted in the graph below and labeled Increase in Cost of Gas (Fig.1). Natural gas prices rose by a compounded average growth rate of 17% during this period, with the sharpest rise occurring in the winter of 2005 (most recent winter heating season) where it registered an average price increase of 24% over 2004. The highest price recorded by an LDC during this past winter was \$13.31/mef and lowest \$6.73/mef with \$10.70 being the median. While only half the respondents provided natural gas price stimates for 2006, those that \$10.59/mef being the median. Most LDCs expect future natural gas prices to moderate, but the trend is still in an upwards direction and this has been found to be the prime driver for the conservation factor on the part of customers.

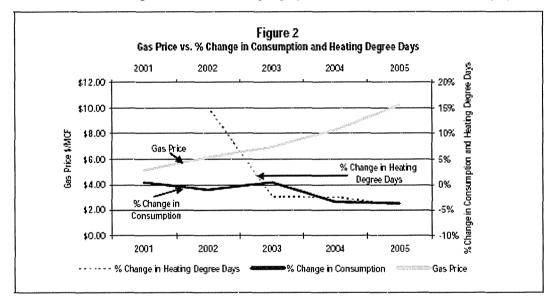


² Moody's Special Comment

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The other noticeable trend is that of falling heating degree days since the winter of 2002 among the responding LDCs. On average, the winter of 2002 appears to have been a fairly cold winter, but the number of heating degree days has since fallen by an average of 3-5% in each of the winter heating seasons since that year. LDCs lacking a WNC or full decoupling mechanism would have suffered in their gas consumption and gross margins when faced with the strong combination of warmer than normal winters and declining gas consumption on account of customer conservation.

Finally, except for a period in 2003 when the average customer consumption increased by .5%, the per customer consumption for residential and commercial users has fallen by 3.4% in each of the last two winter heating seasons on a weather normalized basis, representing that portion of loss in gas consumption resulting from conservation. Changes in gas prices are plotted against percentage changes in per customer consumption and heating degree days in Fig. 2. We note that while the change in per customer consumption on account of conservation has been declining since the 2003 winter heating season at a rate of 3.4% p.a., gas prices have continued to rise much more rapidly.



The winter of 2005 saw the most dramatic rise in both natural gas prices and also per customer gas consumption decline on account of conservation (4% average decline). The weather normalized consumption decline for the last winter ranges from 9.1% in the case of one LDC to a gain of 3.1% in another, as it had colder winter weather in 2005 compared with 2004. With the exception of another LDC that had no loss in consumption, all the other respondents had declines in gas consumption. Similarly, except for one LDC which experienced an increase in per customer consumption in 2004 of 1.2%, all others saw declines in per customer consumption from 2003 which ranged from -0.2% to -9.6%.

Impact of Conservation on Losses in Gross Margin

When LDCs were asked how much higher would their gross margins (gas revenues less cost of gas purchased and associated gas taxes) have been had they been fully protected against declines in gas consumption resulting from conservation, all indicated higher gross margins for the last two winter heating seasons. The average gross margins would have increased from a low of \$2.4 million in 2003 to a high of \$5.2 million in 2004, with one company indicating that they would have gained \$18.3 million in 2004 alone and \$11.6 million in 2005, where the average company stood to gain an additional \$4.6 million in gross margin.

The problem of declining gross margins on account of per customer conservation is explained by the various rate filings and testimonies being offered by consultants on the subject. Symptomatic of the LDC conservation problem is

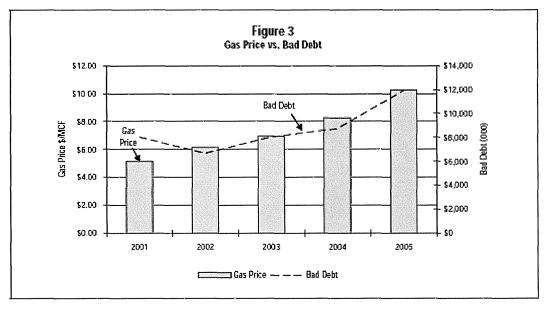
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the argument for incorporating a conservation protection design. For example, Questar Gas Company believes that earning its authorized return has been very difficult due to the combination of declining average consumption over time, the use of a historical test year in general rate cases, and the fact that most of its fixed-non-fuel costs are recovered through a volumetric charge. The upshot has been revenues that in normal weather years have fallen short of their own non-gas costs---because average-customer sales in the rate-effective years fell short of the (historical) test-year figures that were used to set rates. Questar would like to decouple its non-gas revenues from year-to-year movements in the per-customer average consumption levels. The mechanics of the decoupling would employ a balancing account to recover non-gas related revenues lost/gained when average consumption drops/rises above the projected average.¹

In attempting to grapple with the conservation issue, LDCs are in fact, having to dispel the notion that their fixed charges should be recovered from volumetric sales of gas. As the fixed charges appear year in and year out regardless of gas usage, the volumetric approach to cost recovery for operating a gas distribution system is a faulty equation which needs to be rectified in ratemaking. It would appear therefore, that unless and until this anomaly is corrected, the LDC would lack the necessary tools with which to earn its allowed rate of return.

Bad Debt Expense and Increases in Working Capital

One consequence of rising natural gas prices purchased by LDCs and passed onto their customers is the higher level of bad debt expense and increases in working capital that these companies must now contend with. In the winter of 2005 for example, one LDC reported a doubling of their bad debt expense which increased by an average of 17% for all respondents. LDCs in some states such as those located in North Carolina, had the good fortune of being able to recover the gas component of bad debt expense through their purchase gas adjustment (PGA) mechanism, thereby reducing the level of bad debt expense that the company had to absorb on their own. Fig. 3 depicts the close correlation between rising average bad debt expenses and rising gas prices.



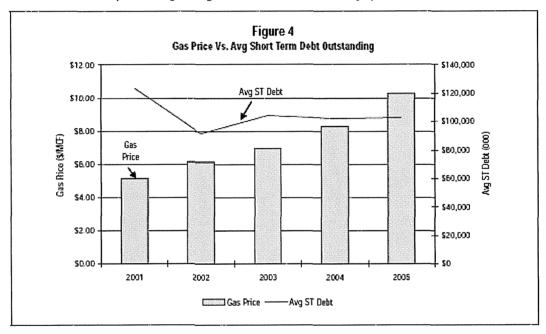
4 Moody's Special Comment

Fredied Direct Testimony of George R. Complian, Fh.D., for the Division of Public Utilities of the Utah Department of Commerce, Bebre the Public Service Commission of Utah, January 23, 2005, Docket No. 05-057-701

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As one would expect, with the higher level of gas commodity prices that customers had to pay and the rise in bad debt expense experienced during the past three winter heating seasons, most LDCs incurred higher levels of working capital. The winter of 2005 witnessed one of the sharpest increases in seasonal working capital on account of accounts receivables and inventory build-ups related to higher natural gas prices, rising 136% over 2004 levels among those LDCs responding to affirmative increases in working capital levels. One large LDC reported a 185% increase in their 2005 working capital level over the prior year. Some companies however, were able to match their increases in accounts payable by structuring their gas purchase transactions to more closely match their gas payments for inventory and timing these closer to the anticipated cash receipts from customers, so that they had less working capital to finance.

It is also interesting to note, as depicted in Fig. 4, that on average, LDC short term debt remained relatively flat after 2003 despite the continuing rise in the cost of natural gas prices. Some companies indicated that they were deliberately refinancing short-term debt through medium term notes or through other means of long-term debt by locking in the cost of financing under favorable interest rates, while others were able to contain the increases in their 2005 working capital levels and did not need to borrow as much for their seasonal needs. In fact, approximately half the LDCs indicating having higher levels of working capital in 2005 compared with prior years were able to reduce their short-term debt levels by refinancing via long-term debt or issuance of new equity.



LDCs Take Varied Approaches in Integrating WNC with RD

It appears that LDCs that already have full RD similar to the "balancing accounts" including revenue normalization adjustments or customer utilization trackers being employed in certain jurisdictions such as California, Maryland and North Carolina, prefer to keep their rate designs intact as they are easily administered and allow for full recovery of their authorized margins. Most other companies that currently have WNC in some of their jurisdictions however, prefer to keep the conservation margin tracker or tariff separate, for the reason that their current WNC provide real time eash flow and earnings adjustments whereas the conservation trackers typically provide after-the-fact eash flow adjustments through deferral accounts that are collected over a subsequent 12-month period.

While some public utility commissions would permit the filing of RD outside the procedural norm of a full rate case, most would clearly prefer a full rate case to be filed in connection with a rate design alteration or at least to review a general rate case after-the-fact in short order. It also appears that the great majority of respondents experiencing customer gas consumption declines on account of conservation would be inclined to file and re-file for some form of RD if denied the first time by their regulators. For many, this is a long but necessary trek to take as a means of curing a rate design deficiency that appears to be increasingly untenable.

Conclusion

In our comment last year, we mentioned several LDCs that had the ability to correct for margin losses on account of conservation or weather variables through their rate design mechanisms, or had RD filing plans or extension plans. Among these, Alabama Gas Corporation (Alagasco) advises that their "rate stabilization and equalization" mechanism will continue through at least 2008 and Southern California Gas Company (SoCal Gas) appears to be satisfied with how their "balancing accounts" have been implemented previously and have requested that the regulatory commission continue with them going forward. Following the completion of an independent study to measure the effectiveness of its conservation mechanism, Northwest Natural Gas Company was able to obtain approval of the Oregon Public Utility Commission in 2005 to continue its conservation tariff for an additional four years through September 30, 2009, and increase the mechanism's coverage from a partial decoupling of 90% of residential and commercial gas usage to a full decoupling of 100%. It also maintains a separate weather normalization mechanism that was extended through September 2008.

In April of 2006, Cascade Natural Gas Corporation in Washington State obtained approval from the Oregon Public Utility Commission to implement a decoupling mechanism to track changes in margin due to conservation (variations in weather-normalized usage) and to track changes in margin due to weather variations from normal for residential and commercial customers. Cascade's RD application for Washington State is still pending.

Piedmont Natural Gas in North Carolina obtained approval for a full RD mechanism for a three-year trial period, with the state's Attorney General appealing the decision in the courts. The appeal has been initiated and the court has taken no action. In the meantime, the company has implemented the mechanism effective November 1 of 2005.

Washington Gas Light Company obtained a full RD (Revenue Normalization Adjustment) in its Maryland jurisdiction which went into effect on October 1, 2005. It has previously attempted to introduce at least partial RD in its Virginia and Washington D.C. jurisdictions.

Southwest Gas Corporation did not fare as well in its Arizona RD application where it generates 54% of its gross margin. The company's credit metrics were already weaker than its Baa utility peers and it badly needed an effective RD mechanism across all its jurisdictions to protect its gross margins. While the Arizona Corporation Commission finally granted it a partial rate increase after over one-year in the application process and brought current recent cost and customer usage factors in Arizona, it denied the company its request for RD through "balancing accounts" as it has in California. The company also lacks RD in its Nevada jurisdiction (37% of gross margins) and the company lost gross margins in 2005 when it experienced one of the 10 warmest years on record, which followed a warm 2003, one of the warmest years in over 100 years. The cumulative effects of this warmer than normal weather continued into the company's quarter ending March 31, 2006 which was mostly responsible for the company's loss of \$9 million in operating margin. Moody's took action in May 2006 to downgrade the company's senior unsecured debt to Baa3 from Baa2 where it is currently under stable outlook.

In the meantime, the list of LDCs applying for RD continues to expand with Atmos Energy Corporation attempting to add conservation riders in key jurisdictions where it already has WNC, Indiana Gas Company and Southern Indiana Gas and Electric Company (utility subsidiaries of Vectren Utility Holdings) both applying for conservation margin protection in Indiana to supplement their recently approved WNC, and Questar Gas Corporation seeking a conservation tariff in Utah. New Jersey Natural Gas and South Jersey Gas Company filed for a joint RD application in New Jersey, requesting a full decoupling mechanism. Both of these New Jersey utilities already have WNC.

Moody's believes that the LDCs successful in their RD initiatives will stand a better chance than others in protecting their gross margins and overall credit metrics from the negative impacts of increasing volatility of natural gas prices and climatic changes. Stronger margins and earnings would also serve to cushion the blows inflicted by increases in bad debt expense that tend to accompany rising gas prices. As gas customers step up their conservation efforts in response to these rising commodity prices, it will become increasingly important for LDCs to switch from a gas volumetric cost recovery methodology to one of RD. While RD may have originally begun as a regional concept in certain jurisdictions, it has quickly become a nationwide phenomenon that will challenge regulators and gas utilities alike, as they seek to correct a structural imbalance in their rate design that has become increasingly difficult to ignore.

Related Research

Special Comments:

Impact of Conservation on Gas Margins and Financial Stability in the Gas LDC Sector, June 2005 (92798) Comparative ROE Attributes of US Local Gas Distribution Companies, July 2004 (87301) Negative Rating Trend for Local Gas Distribution Companies: Impact of Diversifications and Warm Weather, October 2002 (76344)

To access any of these reports, click on the entry abave. Note that these references are current as of the date of publication of this report and that more recent reports may be available. All research may not be available to all clients.

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Global Credit Research Rating Action 10 MAR 2006

Rating Action: Southwest Gas Corporation

MOODY'S PLACES THE Baa2/NEGATIVE OUTLOOK SENIOR UNSECURED DEBT OF SOUTHWEST GAS CORPORATION UNDER REVIEW FOR POSSIBLE DOWNGRADE

Approximately \$1.2 BN of Debt Affected

New York, March 10, 2006 -- Moody's Investors Service places under review for possible downgrade the Baa2/negative outlook senior unsecured debt of Southwest Gas Corporation (SWX), following the company's recent announcement that the Arizona Corporation Commission (ACC) issued a final decision not to adopt the company's proposed rate design for balancing accounts, thereby exposing it to continuing earnings risks associated with weather volatility and declining customer use resulting from the effects of gas conservation. At the same time, the company declared that 2005 was one of the 10 warmest years on record and that it lost approximately \$17MM in operating margins, primarily as result of lower gas usage. Consolidated net income for 2005 declined 23% from 2004, largely on account of loss in operating margins resulting from warmer than normal weather. Arizona accounts for approximately 55% of SWX's gas distribution business and the ACC decision weighs heavily on the company.

In its review, Moody's will consider what other options may be available to the company in terms of mitigating the effects of warmer than normal weather, loss of operating margins on account of gas conservation by customers, the reduction of regulatory lag in dealing with high capital expenditures in a fast-growing service territory and rising operating expenses. Also under review will be the impact of these factors on the company's credit metrics and future financial performance.

Ratings of SWX under Review are as follows:

Southwest Gas Corporation - Baa2 senior unsecured

Southwest Gas Capital II - Baa3 preferred trust securities

Southwest Gas Corporation - (P) Ba1 preferred shelf

Southwest Gas Corporation is headquartered in Las Vegas, Nevada, and provides natural gas service to over 1.7 million customers in Arizona, Nevada and California.

New York John Diaz Managing Director Corporate Finance Group Moody's Investors Service JOURNALISTS: 212-553-0376 SUBSCRIBERS: 212-553-1653

New York Edward Tan Vice President - Senior Analyst Corporate Finance Group Moody's Investors Service JOURNALISTS: 212-553-0376 SUBSCRIBERS: 212-553-1653

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Atmos Energy Corporation, Kentucky Case No. 2006-00464 KPSC 2nd Data Request Dated February 23, 2007 DR Item 57 Witness: Gary Smith

Data Request:

Refer to the Smith Testimony, page 23, line 1 through page 24, line 9 and to the Application, Volume 1, Tab 6, FR 10(1)(b)(7), Proposed Tariff, Original Sheet 42.1 through 42.4.

- a. Does Atmos plan to continue to apply the Weather Normalization Adjustment Rider ("WNA Rider") if the CRS mechanism is authorized?
- b. Does the CRS mechanism allow for Commission consideration of the reasonableness of the six months of budgeted capital additions and associated items for the Rate Effective Period? Explain why or why not.
- c. Under the proposed CRS mechanism Atmos will be able to true-up or adjust its rates based on the results of the Evaluation Period to equal the return established in the last general rate case. Explain why it is reasonable for Atmos to also be able to adjust rates based on the Rate Effective Period which recognizes changes that occur after the Evaluation Period and includes six months of budgeted capital additions.
- d. Page 24, lines 3 through 6, states that the "annual review of the preceding calendar year (the Evaluation Period) incorporates a safeguard against returns for the Company either greater or lower than the authorized return on equity." Doesn't the WNA Rider accomplish the same thing? Explain why or why not.
- e. Explain why Atmos's concerns over its revenue recovery are not fully addressed by its Performance Based Ratemaking mechanism, its Weather Normalization Adjustment mechanism and its Margin Loss Recovery mechanism.

Response:

a. Yes, the Company plans to continue to apply the WNA Rider in conjunction with CRS mechanism. The WNA Rider has performed well since its inception in Case 99-070, correcting for the impact of weather-related variations from normal on the Company's non-gas revenues. Under traditional rate design, with the recovery of fixed costs through volumetric charges, winter temperature-driven customer volumes introduce significant variations in the Company's return absent WNA. Since the inception of the WNA Rider in the winter of 2000-2001, the mechanism has reduced annual distribution charges by as much as \$1,034,462 (in a winter 6,4% colder than normal), and increased annual distribution charges by as much as \$2,051,095 (in a winter 13.4% warmer than normal). The WNA mechanism adjusts though real-time adjustment based on the winter temperature variances in the customer's billing cycle. We believe the WNA Rider is the ideal solution to address this challenge. By supplementing the CRS with the WNA rider, the CRS will simply correct for changes in costs and variables other than those already corrected through the WNA rider.

- b. Yes. With respect to the capital additions projected for the Rate Effective Period, we would expect that the focus of data requests will be the reasonableness of the projections. Refer also to the Company's response to AG DR 1-82(a).
- c. The CRS proposal is designed to accomplish two review exercises with each filing, one historical and one prospective:

The first review exercise is to true-up the historical Evaluation Period. This review will compare actual costs and revenues and then calculate the amount of revenue to be increased or decreased such that the earned rate of return for the Evaluation Period equals the return authorized by the Commission in the most recent rate case. <u>This historical review will not involve any type of pro-forma adjustments or adjustments to revenue billing determinants</u>. The only adjustments applied to the Evaluation Period will be those traditionally applied for ratemaking purposes, calculating the 13-month average of rate base components, and removing non-recoverable costs as determined by the Commission in the Company's most recent rate case (such as donations, promotional and institutional advertising expenses, lobbying expenses, etc.)

The second review exercise is to project revenues and costs for the Rate Effective Period. This review will include adjustments to rate base and income historically approved by the Commission. Such adjustments would include updates to revenue billing determinants, six months of budgeted capital additions and other rate base adjustments. This prospective review would identify an amount of revenue to be increased or decreased such that the expected return for the Rate Effective Period equals the return authorized by the Commission in the most recent rate case. To the extent these prospective adjustments vary from the actual results in the Rate Effective Period, the following year's true-up review will correct for such variances.

The sum of the revenue adjustment required for the Evaluation Period and the revenue adjustment required for the Rate Effective Period will determine the total amount of revenue for which rates will then be adjusted. Those rates will remain in effect for the entire Rate Effective Period.

- d. The WNA rider provides, only in limited measure, a safeguard against returns for the Company either greater or lower than the authorized return on equity; but only as it relates to the collection of distribution (non-gas) revenues. In essence, without WNA, the Company's distribution revenues would be greater than necessary to cover its costs and produce its authorized return on equity if weather was much colder than normal. Conversely, the Company's return could be much lower than authorized if weather was much warmer than normal absent WNA. WNA only addresses the impact of weather-related variations from normal on the Company's non-gas revenues. The proposed CRS would not only monitor revenues, but also changes in costs, ultimately comparing the actual return on equity achieved versus the authorized rate of return.
- e. Each of the referenced mechanisms achieves their intended purpose, but even in aggregate, they do not address the comprehensive scope of the proposed CRS.