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February 28, 2008

RECEIVED

FEB 29 2008

**PUBLIC SERVICE
COMMISSION**

VIA FEDERAL EXPRESS

MS ELIZABETH O'DONNELL
EXECUTIVE DIRECTOR
PUBLIC SERVICE COMMISSION OF KENTUCKY
211 SOWER BOULEVARD
FRANKFORT KY 40602

**Re: Jackson Purchase Energy Corporation
Case No. 2007-00116**

Dear Ms. O'Donnell:

Enclosed please find the original and 7 copies of Jackson Purchase Energy Corporation's Response to the Second Data Request from Commission Staff. Thank you for your consideration of this matter.

Sincerely,



Vickey L. Martin
Paralegal to

Melissa D. Yates
Attorney for Jackson Purchase Energy Corporation ("JPEC")

Enclosures

cc: Dennis G. Howard, Attorney General, via Federal Express

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COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

FEB 29 2008

**PUBLIC SERVICE
COMMISSION**

IN THE MATTER OF:

JACKSON PURCHASE ENERGY)
CORPORATION,)
)
)
)

CASE NO. 2007-00116

**JPEC’S RESPONSES TO
SECOND REQUEST FOR DATA FROM COMMISSION STAFF**

COMES Jackson Purchase Energy Corporation (hereinafter “JPEC”), through the undersigned counsel, and submits herein its responses to the Second Data Request of Commission Staff.

1. Jackson Purchase submitted its application for an increase in rates on December 5, 2007 wherein it proposed a test year ending December 31, 2006. Explain in detail why Jackson Purchase did not propose a test year that was more current than the proposed test year, which was 11 months old at the time the application was received.

RESPONSE: JPEC planned an earlier filing. It gave notice of its intent in March, 2007. Thereafter, a decision was made to submit significant changes to all regulatory tariffs, as well as rate tariffs. The research and rewriting process, with board involvement, took longer than anticipated. In addition, JPEC’s rate study and depreciation experts were unable to complete their assignments as quickly as initially indicated due to personal workloads.

Witness: Kelly Nuckols.

2. Refer to Paragraph 12(a) of Jackson Purchase's Application. Provide copies of Jackson Purchase's Financial Policy and Equity Management Policy.

RESPONSE: The correct paragraph reference is (b). JPEC's Application for Rate Increase incorrectly stated that JPEC has a Financial Policy and Equity Management Policy; JPEC has no formal written policy(s). It is JPEC's long-standing practice to maintain TIER. This is reviewed on a monthly basis.

Witness: Kelly Nuckols.

3. In Paragraph 12(b) of the Application, Jackson Purchase states it has been duly notified by the Rural Utilities Service ("RUS") and the National Rural Utilities Cooperative Finance Corporation ("CFC") that it did not meet its minimum default mortgage requirements.

- a. Provide copies of the correspondence from RUS and CFC notifying Jackson Purchase that it did not meet its mortgage requirements.
- b. Provide copies of correspondence sent by Jackson Purchase to RUS and CFC in response to the notice.

RESPONSE:

- a. Please see Exhibit 1 attached hereto. Normally, CFC requires a 1.35 MDSC ratio; however, because the RUS is the predominate lender and because the Mortgage represents a joint Mortgage of the RUS, CFC and CoBank, CFC has agreed to the same requirements in the Mortgage to the same requirements of RUS. See Section 2.01 (a)(1)(i) of the Mortgage.

"The Mortgagor shall have achieved for each of the two calendar years immediately preceding the issuance of such Additional Notes, a TIER of not less than 1.25 and a DSC of not less than 1.25;"

At the end of 2006, JPEC had a TIER of 0.96, a DSC of 1.23 and a MDSC of 1.22. JPEC was also informed verbally by CFC Vice President of Regulatory Affairs that it failed to meet its mortgage requirements.

b. Please see Exhibit 2 attached hereto.

Witness: Kelly Nuckols.

4. Paragraph 12(c) of the Application refers to its Times Interest Earned Ratios (“TIER”) for the test year. Provide Jackson Purchase’s income statements and TIERS for the 12-month period ending December 31, 2007 as soon as it is available.

RESPONSE: For 2007 TIER is 1.31 and OTIER is 1.08. These calculations were made from data contained in Exhibit 3 attached hereto.

Witness: Chuck Williamson.

5. Following Paragraph 39 of Jackson Purchase’s application, the following statement appears, “Wherefore, Jackson Purchase requests that the Public Service Commission of Kentucky approve the requested increase as expeditiously as possible by authorizing Jackson Purchase to make the requested rates effective immediately through the issuance of an order.” By this statement is Jackson Purchase requesting the Commission to schedule a hearing to determine whether the proposed rates or a portion thereof should become effective during the suspension period as provided in KRS 278.190?

RESPONSE: JPEC is not requesting that its rate be effective during the suspension period; JPEC desires a final rate decision at the earliest possible date.

Witness: Kelly Nuckols.

6. Provide a schedule comparing the proposed depreciation rates with Jackson Purchase’s current depreciation rates and the depreciation rates established by RUS.

RESPONSE: Please see Exhibit 4 attached hereto.

Witness: Chuck Williamson.

7. Refer to Exhibit G, Schedule 5, of the Application. Provide the current interest rates on the long-term debt as of January 31, 2008.

RESPONSE: Please see Exhibit 5 attached hereto.

Witness: Chuck Williamson.

8. Refer to Exhibit G, Schedule 6, of the Application. Provide a copy of the “COMPensate Plan” prepared by the National Rural Electric Cooperatives Association for the calendar years 2005, 2006 and 2007 when it becomes available.

a. Are wage and salary adjustments for the executive officers included in the COMPensate Plan?

RESPONSE: JPEC has requested guidance from NRECA regarding the COMPensate Plan. JPEC is informed that the Plan is copyrighted material and contains confidential information on a national level. JPEC has requested permission to provide a summary of the Plan. Upon receipt of NRECA’s reply, a copy of same will be filed with the PSC.

a. All executive officers except CEOs are included in the Plan.

Witness: Kelly Nuckols.

9. Refer to Exhibit G, Schedule 8, page 2 of 5, of the Application. Does Jackson Purchase’s contribution of 100 percent of medical insurance extend to family coverage? Explain the response.

RESPONSE: The NECA-IBEW Welfare Trust Fund is a single premium plan; JPEC does not have the option to purchase single or tiered amounts.

Witness: Kelly Nuckols.

10. Refer to Exhibit G, Schedule 9, of the Application. Provide a copy of the 2007 Post Retirement Benefits Valuation when it becomes available.

RESPONSE: FAS 106 requires a valuation only once every three years, assuming there have been no significant changes in assumptions, which there have not. This study (performed by NRECA) is expensive to complete and requires significant staff resources. As such, JPEC only updates the study every three years. A new valuation will not be available until the fourth quarter of 2009.

Witness: Chuck Williamson.

11. Refer to Exhibit G, Schedule 12, of the Application.

a. Refer to page 2 and 17 of 23. Explain why Jackson Purchase removed the 2006 membership dues to the Kentucky Association of Electric Cooperatives on page 2 but did not remove the membership dues on page 17.

b. Refer to page 3 through 7 of 23. For all advertising identified as safety or conservation, explain why each expense item should be included for rate-making purposes pursuant to 807 KAR 5:016, Section 4.

c. Provide samples of the advertisements included as safety or conservation. For radio and television advertisements, the text will be sufficient.

d. Explain the purpose and nature of the expenses referred to as “Networking” in the Distribution Description that appears throughout this schedule. Explain why the expenses should be included for rate-making purposes.

e. Refer to pages 11 through 14 of 23. For the following expense items, explain why each item should be included for rate-making purposes.

(1) J & S Vending – coffee supplies.

- (2) Positive Promotions, Inc. – light let safety light.
- (3) Jackson Purchase Energy – donuts for employee meeting.
- f. Refer to page 15 of 23, line 34. Explain why Jackson Purchase removed the deposit for the annual meeting.
- g. Refer to page 16 through 18 of 23. For the following expense items, explain why each item should be included for rate-making purposes.
 - (1) Rural Cooperatives Credit Union - annual fee.
 - (2) Hultman Signs & Screen Pt. Inc. – 3x3 banner – logo.
 - (3) Hultman Signs & Screen Pt. Inc. – shirts.
 - (4) Sam’s Club – membership.
 - (5) Lee Wayne Corporation – pens.
 - (6) Visa – lunch with Jeff Voight, etc.
- h. Refer to pages 17 and 19 of 23. Explain the purpose and nature of the Teller Committee Pay expense. Explain why the expense should be included for rate-making purposes.
- i. Refer to page 19 of 23. Explain why the expenses for “shirts for annual meeting” should be included for rate-making purposes.

RESPONSE:

- a. KAEC membership dues were treated as “allowed” items in both schedules.

Witness: Chuck Williamson.

b. JPEC believes all advertising being claimed as safety or conservations qualifies under 807 KAR 5:016 Sections (a), (b), (c), (d), (e) and/or (f) based upon the content of the advertisement.

Witness: Chuck Williamson.

c. Upon receipt of the Second Request for Data from Commission Staff, JPEC's Marketing Department attempted to reconstruct past data and information as is available to reconstruct. To the best of my knowledge and belief, the information is correct as reflected below.

Television - Jackson Purchase Energy's Television ads included five pre-produced Touchstone Energy commercials that ran in equal rotation. Two of the five (20%) are allowable for rate-making purposes. A summary of each spot is below.

Touchstone Energy Safety - This ad educates customers about the dangers of home improvement and overhead electric lines. It features the actor outside a home with a ladder on the side of the house and visible overhead electric lines. The actor warns this is extremely dangerous and encourages do-it-yourselfers to be cautious when working near electric lines.

Touchstone Energy Conservation/Wise Use - This ad features an actor outside a home on a cold day with an infra-red heat gun. The commercial shows the video from the infra-red gun which demonstrates all the places the home is losing heat. The actor then gives suggestions on how to correct this loss of energy by installing more insulation, weather stripping and energy efficient windows.

Radio - Jackson Purchase Energy's regularly runs two radio ads per month.

These ads focus on a variety of topics, many of which are allowable for rate-making purposes. Samples of radio scripts that are indicative of allowable content are below.

Radio Ad for 1/2 – 1/15 (:30 sec.) - We know Jackson Purchase Energy members lead busy lives. That's why information about your JPEC account is available online at jpenergy.com. You can review account information, check electric use along with three years of history and compare use to weather information. Online account information is one of the many reasons Jackson Purchase Energy is the region's Cooperative Partner by Choice and Your Touchstone Energy Partner.

Radio Ad for 4/3 – 4/16 (:30 sec.) - April showers bring May flowers, but sometimes those showers are storms. Jackson Purchase Energy reminds you that a downed power line is not necessarily a dead one. If you see a downed line, don't touch it and contact JPEC. Lighting the way to safety - Jackson Purchase Energy is the region's Cooperative Partner by Choice and Your Touchstone Energy Partner.

Radio Ad for 8/21 – 9/3 (:30 sec.) - Jackson Purchase Energy wants you to keep you safe around electricity. When using an extension cord, always buy one that has at least a fifteen amp rating capacity. Make sure and use three-wire extension cords for appliances with three-pronged plugs and never snip off the third prong! Lighting the way to safety, we are Jackson Purchase Energy the region's Cooperative Partner by Choice and Your Touchstone Energy Partner.

Radio Ad for 12/4 – 12/17 (:30 sec.) - Holiday lights make the season brighter and Jackson Purchase Energy is proud to be part of the season. Play it safe with holiday lighting. Outside, only use lights rated for outdoor use. Never overload extension cords and never use frayed cords. Making the season brighter and lighting the way to safety - Jackson Purchase Energy - The region's Cooperative Partner by Choice and Your Touchstone Energy Partner.

Witness: Chuck Williamson.

d. **Networking** - "Networking" is a generic term for advertising and marketing efforts at JPEC. The specific payments noted as "networking" were identified and advertising or marketing efforts that contained safety or conservation information were noted and included.

Witness: Chuck Williamson.

e. (1) J & S Vending – coffee supplies: JPEC furnishes coffee for its employees. This has been a long standing practice and JPEC believes the expense is more than recouped by the morale of its employees. During outages these supplies are essential for in aiding employees stay alert and safe.

Witness: Kelly Nuckols.

e. (2) Positive Promotions, Inc. – light let safety light: This expense was for "prizes" given to children during electrical safety programs given to children at local schools. JPEC believes these expenses are appropriately included because of their safety message. They imprint on the "prizes" also carried a safety message.

Witness: Kelly Nuckols.

e. (3) Jackson Purchase Energy – donuts for employee meeting: JPEC occasionally furnishes donuts for its employees at various times such as safety meetings or employee meetings, or when the workload is great. This is a long standing practice and JPEC believes the expense is more than recouped by the morale of its employees.

Witness: Kelly Nuckols.

f. This item was removed by mistake. JPEC believes it is in fact an includable item, but was inadvertently listed as excludable.

Witness: Kelly Nuckols.

g. (1) Rural Cooperatives Credit Union – annual fee: These fees are annual fees relating to company credit cards which are used by employees for overnight travel or supply purchases where a credit card is the only convenient method of payment. This fee is a necessary business expense.

Witness: Chuck Williamson.

(2) Hultman Signs & Screen Printing – 3x3 banner – logo: This refers to banners with safety messages such as “buckle up” or “wear your hard hat” that are posted at the exit of JPEC’s pole-yard. The banners are designed as safety reminders for field personnel. They include the JPEC logo.

Witness: Chuck Williamson.

(3) Hultman Signs & Screen Printing – Shirts: These shirts include JPEC’s company name and were ordered for employees who participate in community events. The logo helps members know who can assist them in an expedient manner.

Witness: Chuck Williamson.

(4) Sam's Club – membership fee: This is an annual fee that is required to “belong” to Sam's Club. JPEC purchases many items from this store because many necessary items are sold at more reasonable prices there than other locations. The fee must be paid for each employee authorized to make purchases for the cooperative.

Witness: Chuck Williamson.

(5) Lee Wayne Corporation – pens: Jackson Purchase Energy uses anywhere from 3,000 to 5,000 pens per year in the lobby and customer service area. The pens are necessary for customers to fill out forms, write checks, etc. These pens include JPEC's logo, phone number and website and are purchased in bulk. Pens would need to be provided by JPEC and the information on the pens aids in helping the members find contact information needed for emergency or customer service issues.

Witness: Chuck Williamson.

(6) Visa – lunch with Jeff Voight: This item was incorrectly described in JPEC's Application for Rate Increase. JPEC sponsors a hot air balloon for the Paducah Summer Festival and auctions off a balloon ride with proceeds going to charity. JPEC treats the winners and the hot air balloon crew to dinner as part of the package. This expense should have been listed as an excluded expense.

Witness: Chuck Williamson.

h. JPEC's bylaws require a Teller Committee to oversee board elections and count ballots. The purpose is to ensure the integrity of balloting. This expense is mandated by JPEC's bylaws and should be included for rate-making purposes in a member-owned cooperative.

Witness: Kelly Nuckols.

- i. Shirts are provided to clearly identify JPEC employees, so they may assist its members at the annual meeting.

Witness: Kelly Nuckols.

12. Refer to Exhibit F, Schedule 14, of the Application.

- a. Refer to pages 8 through 19. Some directors attended a “Board Workshop.” Provide a detailed description of what Jackson Purchase’s Board Workshops entail. Include an explanation of why they are held so frequently.
- b. Did Jackson Purchase normalize the regular board meeting fee for directors? Would Jackson Purchase agree that the regular board meeting fee should reflect the attendance of the full board at all meetings? Explain the response.
- c. Refer to page 19 of 19. Provide copies of the meeting agenda for the “Our World Beyond Electricity Seminar.” Explain why the expense should be included for rate-making purposes.

RESPONSE:

- a. JPEC’s Board of Directors has no standing committees. Therefore, it does not hold committee meetings, monthly or otherwise. JPEC utilizes workshops between required board meetings so that financial and operational matters may be discussed in greater detail. Topics such as capital expenditures, revenue, approval of work plans, budgeting and audit reviews are discussed and workshops include meeting with consultants, auditors, and engineers. The board believes the system is an effective and economic way for it to fulfill their duties as directors.

Witness: Kelly Nuckols.

b. JPEC did not normalize the fee. The directors are paid based on their individual attendance. If your question means that directors should be paid a reasonable fee for those meetings actually attended, we would agree. We understand other cooperatives may have different policies and have no comment regarding those policies.

Witness: Kelly Nuckols.

c. Please see Exhibit 6 attached hereto. Expenses for attendance should be included for rate-making purposes, as it led to an understanding of important legislation (HB 568) passed by the General Assembly. The presenters which included representatives of the Kentucky Public Service Commission, explained the statute, reporting and enforcement regulations, and answered questions regarding same.

Witness: Kelly Nuckols.

13. Refer to Exhibit H, Direct Testimony of G. Kelly Nuckols, page 3 of 8, of the Application. Mr. Nuckols states that Jackson Purchase's TIER has decreased consistently from 2003 through 2006. Explain the factors that caused Jackson Purchase's TIER to fall so dramatically from a 1.72 in 2005 to a .96 in 2006.

RESPONSE: As previously mentioned JPEC's wholesale cost of power and energy increased from \$0.03582 per kWh in 2005 to \$0.03602 per kWh in 2006. kWh sales in 2005 were greater than 2006; as 2005 was recorded as a climate year with greater cooling and heating degree-days from normal. 2005 was also a year of reduced operation and maintenance expenses as JPEC recorded lower than normal outages; thereby reducing overtime labor expenses. Interest

expense increased in 2006, above 2005 levels, as a result of increased borrowings from RUS and the effect of rising interest rates as some of JPEC's outstanding loans re-priced.

Individually the above items would not cause a significant change; but cumulatively, they resulted in the stated change in TIER.

Witness: Kelly Nuckols.

14. Refer to Exhibit L of the Application.

- a. Provide the rate base and capitalization as of test-year end. Provide the determination of all components.
- b. Explain why average rate base and average capitalization were used in this exhibit.
- c. Was Jackson Purchase aware that in a historic test year, the Commission utilizes test-year end rate base and capitalization? Explain the response.

RESPONSE:

- a. The year-end rate base and returns on year-end rate base and capitalizations are illustrated in Exhibit 7 attached hereto.
- b. Average rate base was used in an attempt to better reflect the cost of capital in the test year. JPEC is not requesting relief based on the return on capital, but rather a 2.00 Net TIER ratio; therefore, the return on rate base is a comparative analysis. During the construction of the JPEC rate case CFC believed, as it does now, that the average rate base provides a better comparative result when compared to the TIER method which represents the expenses over the entire test year. Both the return on year-end rate base and year-end are less than what they are for an average rate base and average capitalization.

c. Neither JPEC nor CFC was aware that the Commission utilizes a test year-end rate base and capitalization for historical test years. JPEC is seeking relief based on a 2.00 Net TIER ratio and not on a return on rate base. JPEC wanted to file the return on rate base information for comparative purposes. CFC provided the determination of rate base and the computation as to the returns on rate base and capitalization. CFC recommended to JPEC that it use an average rate base and return capitalization to better match the rate base to the expenses in the test year.

Witness: Bill Edwards.

15. Refer to Exhibit M of the Application. Provide the monthly amounts included in the 13-month averages.

RESPONSE: Please see Exhibit 8 attached hereto.

Witness: Chuck Williamson.

16. Refer to Exhibit P, page 2 of 29, of the Application. Provide a copy of any written approvals from RUS for the proposed depreciation rates.

RESPONSE: On Exhibit P, page 2 of 29 (Volume III, document numbered 000721 of JPEC's Application for Rate Increase), the last paragraph gives approval of the annual rates for a period of five years. This is part of a three-page letter included in Exhibit P from RUS Field Accountant, Anthony S. Bunch. JPEC is unaware of any other written approvals; however, JPEC has been verbally informed that RUS will not allow JPEC to accept the rates piecemeal; the rates must be accepted in their entirety or not at all.

Witness: Chuck Williamson.

17. Refer to Exhibit Y of the Application.
 - a. Explain why Jackson Purchase does not have a formal Equity Management Plan.
 - b. Explain why Jackson Purchase has never paid capital credits.

RESPONSE:

- a. JPEC and its Board of Directors believes managing equity on a daily or monthly basis, as necessary, is the best practice as a cooperative.
- b. Article VII, Section 2 of the Bylaws of JPEC (Volume 3, Exhibit V, documents numbered 000904 – 000905 of JPEC’s Application for Rate Increase) provides in pertinent part:

“ . . . the Board shall determine that the financial condition of the Corporation will not be impaired thereby, the capital then credited to patrons’ accounts may be retired in full or in part . . . ”

Previous votes by JPEC’s Board of Directors did not result in a majority vote to approve the retirement of patronage capital accounts.

Witness: Kelly Nuckols.

18. Refer to Exhibit 6, pages 3 through 6, of Jackson Purchase’s response to the Staff’s initial data request. For each line item, identify the expense as recurring or non-recurring. For each non-recurring item, explain why it should be included for rate-making purposes.

RESPONSE: Line items 1 – 27 reflect staking and line design expenses. Such work is recurring in varying amounts each year. Work performed by Electric Service Co., Inc., in 2006 is considered normal.

Line items 32 – 110 refer to legal services performed during 2006 by outside legal counsel, Denton & Keuler. Legal expenses are a required and recurring item for JPEC. While exact services may vary from year to year, the general description of services reflects normal matters as does the total amount billed.

Line items 55, 58, 63, 69, 84, and 90 reflect trademark research. Trademark matters are not normally involved in JPEC operations and, while necessary in 2006, may not be recurring expenses.

Witness: Kelly Nuckols.

19. Refer to Exhibit 7 of Jackson Purchase's response to the Staff's initial data request. Provide invoices or other supporting documentation for the actual rate case expenses included.

RESPONSE: Please see Exhibit 9 attached hereto.

Witness: Chuck Williamson.

20. Did Jackson Purchase normalize the PSC assessment? Would Jackson Purchase agree that the normalization should reflect the current PSC assessment rate? Explain the response.

RESPONSE: JPEC did not normalize the PSC assessment. JPEC agrees that normalization should reflect the current PSC assessment rate. JPEC did not normalize the assessment in its Application for Rate Increase because the difference is relatively minor. The PSC assessment for 2005 equated to a monthly rate of \$3,383.22, compared to the 2006 monthly rate of \$3,559.57.

Witness: Chuck Williamson.

21. Refer to Exhibit G, Schedule 3, of the Application. Based upon the 13 months beginning December 1, 2005 and ending December 31, 2006, provide an end-of-test-year customer adjustment schedule in the formation appended hereto as Appendix A.

RESPONSE: Please see Exhibit 10 attached hereto.

Witness: Gary Stephens

22. Refer to the Application, Exhibit H-2, pages 10-12 of the Direct Testimony of Charles G. Williamson. Jackson Purchase proposes to replace its budget billing program with a levelized billing program.

a. For the most recent available month, provide the number of customers presently participating in the budget billing program and the total number of customers eligible for the budget billing program.

b. Of those customers participating in the current budget billing program, how many customers allow Jackson Purchase to debit their back accounts for payment?

c. Has Jackson Purchase polled its members regarding their preference between the existing program and the proposed levelized billing program?

(1) If yes, provide the results of the poll.

(2) If no, explain why Jackson Purchase did not poll its membership on this issue.

RESPONSE:

a. We currently have 1,654 accounts on budget billing. All residential customers with no past due balances are eligible for the program. This number is approximately 25,000 accounts.

b. Currently, 488 customers are paying by bank draft with an additional 88 paying by credit card draft.

c. JPEC did not poll its members on this issue due to the complexity and expense of conducting a survey. However, with budget billing, there have been instances where there is a balance due in the settlement month, which has occasionally made members unhappy. We also believe that a levelized billing program encourages members to conserve while keeping their payment affordable. We also have spoke with a sister cooperative that switched from budget billing to levelized billing and we understand from them that the program was well received. Please see the testimony of Chuck Williamson, Exhibit H-2, Pages 10 and 11, Volume II, documents numbered 000505 & 00506 of JPEC's Application for Rate Increase.

Witness: Chuck Williamson.

23. Refer to the Application, Exhibit H-4, page 13 of the Direct Testimony of Thomas E. Kandel. The difference between the current and proposed depreciation rate for Account 371 – Installations on customer premises is considerably greater than the differences in the other accounts. Is Jackson Purchase aware of any particular reason for the disparity?

RESPONSE: Account 371 contains security lights and a standby generator. The generator included in this account was previously included in Account 372 in the prior study. As of December 31, 2006, \$85,188 of the \$668,690 in accumulated depreciation pertained to the standby generator and the remaining balance of \$583,502 pertained to security lights. While the average cost of newer security lights has been declining, the removal cost of the more expensive lights has been increasing since there have been only a limited number of retirements to date.

Witness: Thomas E. Kandel.

24. Refer to the Application, Exhibit H-6, pages 3-5 of the Direct Testimony of Tracy A. Bensley. Jackson Purchase proposes to change its Rules and Regulations to require a member to install a conduit system for use in installing Jackson Purchase's conductor when an underground facility is installed.

- a. Has Jackson Purchase obtained estimates from contractors for performing this service if contracted by one of its members?
- b. If the answer to 24(a) is no, explain how Jackson Purchase knows that the cost will be similar or less than the underground differential cost charged by Jackson Purchase.
- c. If Jackson Purchase, upon its inspection determines that the conduit is not installed to its requirements, could the member be subject to considerably higher costs when correcting the problem? Explain the response.
- d. Is Jackson Purchase satisfied that there is an adequate number of contractors qualified to do the conduit installations? Explain the response.

RESPONSE:

- a. No. We have used our construction contract pricing compared to our actual differential costs to determine that this change will have no significant impact on JPEC's revenue in relation to underground installation costs.
- b. The actual average underground differential costs for JPEC in 2005 were \$2.64 per foot of underground installed while the cost to JPEC of installing a conduit system in 2005 averaged \$2.78 per foot based on contract pricing for that

year. Based on installed footage of approximately 72,000 feet, the increased revenue to JPEC would be approximately \$10,000.

The actual average underground differential costs for JPEC in 2006 were \$3.73 per foot of underground installed while the cost to JPEC of installing a conduit system in 2006 averaged \$3.68 per foot based on contract pricing for that year. Based on installed footage of approximately 70,000 feet, the decreased revenue to JPEC would be approximately \$3,500.

c. JPEC will work with local contractors and provide specifications to members and contractors prior to installations. Should the member contract to have the system installed, the contractor will be subject to additional costs in making corrections. The member should not have to pay for a contractor's failure to follow the contract specifications.

d. Yes. Several qualified contractors exist in JPEC's service territory. As an example, the West Kentucky Construction Association website lists 42 General Contractors and 26 Residential Contractors as members. JPEC's service territory includes areas near Paducah, Mayfield, Murray, Benton, LaCenter, Kevil, Smithland, and Salem to mention a few. All of these areas provide suitable contractors for this purpose.

Witness: Tracy A. Bensley.

25. Refer to Exhibit K of the Application. Revenue for each billing component for each revenue class (and each type of light in the outdoor lighting schedule) must be ascertainable from the exhibit. Provide a revenue analysis schedule including a billing analysis for Jackson Purchase for the test year ended December 31, 2006. Include all applicable billing determinates.

The schedule should be done in the format appended hereto as Appendix B and provide in both hard copy and on a CD in electronic form in Microsoft Excel 1997 through 2003 versions.

RESPONSE: Please see Exhibit 11 attached hereto in hard copy and on CD in electronic form attached hereto as Exhibit 12. (See also Volume 3, Exhibit K, documents numbered 000686 – 000693 of JPEC’s Application for Rate Increase). However, the revenues for the individual rate classifications calculated in this Attachment do not agree with the revenues used in this filing. In preparation of this rate filing, I discussed these discrepancies with JPEC staff, and after considerable research, JPEC staff concluded that the numbers in their billing records were the proper revenues to use in this filing. JPEC staff felt that using billing determinants to calculate revenue does not take into account the hundreds of adjustments and their timing and that it would not be practical or possible to reconcile each adjustment.

Witness: Gary Stephens.

26. Refer to page 80 of Jackson Purchase’s January 10, 2008 Supplemental Filing. Jackson Purchase’s non-recurring fees are all shown as new charges. The non-recurring charges shown appear to match the charges that are included in Jackson Purchase’s tariff that is currently in effect. Does Jackson Purchase propose any new changes to its non-recurring charges?

RESPONSE: JPEC is not proposing to change its non-recurring fees; only the presentation changed.

Witness: Kelly Nuckols.

27. Refer to Exhibit H, Gary C. Stephens Testimony (“Stephens Testimony”), of the Application. Provide a copy of the cost-of-service study worksheets and attachments on a CD in electronic form in Excel with the formulas intact.

RESPONSE: Please see CD containing Excel spreadsheet attached hereto as Exhibit 12.

Also see Volume III, Exhibit T (documents numbered 000807 – 000861) of JPEC’s Application for Rate Increase.

Witness: Gary Stephens.

28. Refer to Stephens Testimony. Explain whether or not Mr. Stephens has reviewed the cost of service study in Jackson Purchase’s last rate case. If Mr. Stephens performed the last cost of service study, explain any changes in the methodology used in the study.

RESPONSE: Mr. Stephens did not perform the last cost of service study, nor has he reviewed it.

Witness: Gary Stephens.

29. Refer to Stephens Testimony at pages 7 and 8 of 19 and Attachments 2 and 3.

- a. Explain what parts of the distribution system are allocated with the Primary Demand Allocation Factor.
- b. Explain what parts of the distribution system are allocated with the Secondary Demand Allocation Factor.
- c. Explain the estimation procedure for the average monthly coincident peak demand and for the non-coincident peak demand for each rate classification, including how the data was derived.
- d. Explain whether the non-coincident peak demand data used in Attachment 2 is the same data used in Attachment 3.
- e. Explain why the coincident and non-coincident peak demands were averaged together.

- f. Explain how the monthly coincident demand for each rate classification was adjusted for losses and the loss adjustment used.
- g. Explain why the Outdoor Lighting rate class only has entries for January, March and December.
- h. How do the Primary and Secondary Demand Allocation Factors compare to a Peak and Average Allocation factor? Provide a side-by-side comparison and explain why the 12 CP method is more appropriate than the Peak and Average method.

RESPONSE:

a. The Primary Demand Allocation Factors were used to allocate the distribution plant related to the primary lines to the individual customer classifications. The primary-related plant is the portion of the distribution plant that is on the company side of the transformer.

Witness: Gary C. Stephens.

b. The Secondary Demand Allocation Factors were used to allocate the distribution plant related to the secondary lines to the individual customer classifications. The secondary-related plant is the portion of the distribution plant that is on the customer side of the transformer.

Witness: Gary C. Stephens.

c. Actual meter readings were used for the industrial rate class. We deducted the industrial rate class values from the system peak values. We then utilized kWh information to determine the ratio of a rate class' usage to the system usage. This ratio was applied to the system peak remaining after deducting the

industrial demands. Estimates for all other rate classes were obtained.

Witness: Tracy Bensley.

d. It is not.

Witness: Gary C. Stephens.

e. The primary distribution lines have characteristics of both transmission and distribution lines. Since transmission is allocated on the coincident peak demand and distribution is allocated on the non-coincident peak demand, it seems appropriate to allocate the primary distribution plant based on the average of those two values.

Witness: Gary C. Stephens.

f. The system demand was reduced by the known system loss amount of 5.25%. We then applied the same estimation procedure as outlined in the answer to question 29c above, with the exception of industrial accounts taking delivery directly from a substation. No loss factor was applied to these accounts.

Witness: Tracy Bensley.

g. We reviewed actual dawn and dusk information and compared it to the system peak date and time to determine if the lights were on during peak. If the system peak occurred during daylight hours, a zero value was entered for the lights' contribution to the system peak demand.

Witness: Tracy Bensley.

h. Since JPEC is billed monthly for demand, CFC believes that the average of the 12 monthly coincident peaks would be the appropriate allocation method for the distribution system. CFC did not perform a Peak and Average analysis. However,

since the Peak and Average method incorporates energy weighting into the treatment of plant costs, a review of the demand allocation factors and the energy allocation factors in the cost of service study suggests that the results of the Peak and Average method would not be too different. For the Residential classification, the demand values range between 59.498% and 60.668%, while the energy allocation was 59.625. Since these demand and energy values are similar, it is not believed that the different method would have an impact on the cost of service study.

Witness: Gary C. Stephens.

30. Refer to Stephens Testimony at Attachment 6 and Exhibit T, page 4 of 55, of the Application.

- a. Provide pages 7 and 10 of 11.
- b. Explain how the numbers found in Exhibit T in the Total Company column lines 7 – 9 are tied back to Attachment 6.
- c. Explain how Accounts 360, 362, and 369 through 373 are treated and provide additional worksheets demonstrating how the costs were split out as being customer related.
- d. In Attachment 6, the minimum system was used to functionalize and then allocate costs to the various rate groups. Explain how these results compare to costs obtained using the zero intercept method.

RESPONSE:

- a. Pages 7 and 10 of 11 from Attachment 6 are attached hereto as Exhibit 13, and the complete Attachment 6 in electronic form is contained on the CD attached hereto as Exhibit 12.

Witness: Gary C. Stephens.

b. Attachment 6 consists of supporting worksheets that illustrates the calculations for the minimum size plant, the calculation of the distribution plant value, the determination of the general plant value, and the determination of the accumulated depreciation that is general plant-related. The minimum size plant factor was used to determine the amount of the distribution plant that was considered to be customer-related in Exhibit T, Page 4 of 55, Line 9. The total distribution plant value appears in Exhibit T, Page 4 of 55, Line 12. The accumulated depreciation that is general plant-related appears in Exhibit T, Page 5 of 55, Line 17.

Witness: Gary C. Stephens.

c. Accounts 360, 362, and 369 were treated the same as the other distribution plant accounts – a portion of these dollars were allocated to the customer-related function based on the minimum size allocation factor. Account 373 was allocated 100% to the Outdoor Lighting rate classification.

Witness: Gary C. Stephens.

d. Comparative studies between the minimum size method and the zero intercept method show that the minimum size method generally produces a larger customer component (although the differences can be relatively small). CFC believes that the minimum size method is more appropriate for electric cooperatives – who generally have low density, low average usage per customer, and low proportion of commercial and industrial customers – because it provides more stable bills for the customers as well as more reliable income to the cooperative.

Witness: Gary C. Stephens.

31. Refer to Stephens Testimony at Attachment 6, pages 2 and 3 of 11.
- a. For the 365 subaccounts, explain which are not being installed currently.
 - b. Explain why #6 DPX was chosen as the conductor to be used in the minimum system calculation.

RESPONSE:

- a. Please see Exhibit 14, attached hereto.
- b. We chose #6 DPX because it is the minimum size conductor currently being installed by JPEC.

Witness: Tracy Bensley.

32. Refer to Stephens Testimony at Attachment 6, page 4 of 11.
- a. Explain why the ¾ inch conduit was not used in the calculation.
 - b. Explain the differences in purpose and usage in the conduit in Accounts 366 and 369.

RESPONSE:

- a. The use of the 1 inch conduit was a judgment call based on discussions with JPEC staff and based on the number of units of each size. Since the quantity of the ¾ inch conduit represented just 0.1% of the total quantity, it was decided that the ¾ inch conduit would not be appropriate to use.

Witness: Gary Stephens.

- b. Conduit in account 366 is used for primary and secondary lines and conduit in 369 is used for services. This accounting treatment is in accordance with RUS guidelines.

Witness: Chuck Williamson.

33. Refer to Stephens Testimony, Exhibit T, page 1 of 55, of the Application.
- a. Explain what production plant Jackson Purchase operates.
 - b. Does the 12 CP allocation method mentioned in the notation refer to the Primary Demand Allocation Factor in Exhibit H-5, pages 7 and 8 of 19, and Attachment 2?

RESPONSE:

- a. That statement is in error and did not refer to any calculation or allocation in the JPEC cost of service model. The statement has been deleted from the electronic file requested in this data request (see Exhibit 12).
- b. That statement is in error and did not refer to any calculation or allocation in the JPEC cost of service model. The statement has been deleted from the electronic file requested in this data request (see Exhibit 12)

Witness: Gary Stephens.

34. Refer to Stephens Testimony, page 7 of 19, and Exhibit T, page 2 of 55, lines 2 and 7. Provide a copy of the work papers and further explanation for how the numbers of customers were weighted.

RESPONSE: The numbers of weighted customers were based on discussions with JPEC staff and general assumptions about the costs of providing service to the different rate classifications. It was assumed that the costs for the Residential, Small Commercial (1 phase), and Small Commercial (3 phase) were similar, so these classifications were given a weighting of 1.0. The costs for Large Commercial (Existing) and Commercial and Industrial rate classifications were assumed to be twice the costs of the already mentioned rate classifications,

so they were given a weighting of 2.0. It was also assumed that the costs associated with the Outdoor Lighting rate classification was less than the other rate classifications, so the Outdoor Lights were given a weighting of 0.25.

Witness: Gary Stephens.

35. Refer to Stephens Testimony Exhibit T, page 3 of 55, lines 29 and 32. Explain how the Wages and Salaries for the Distribution and General categories allocator was derived and where the calculations are in the Exhibit.

RESPONSE: Wages and salaries in accounts 107 through 598 were considered to be 100% distribution-related. Wages and salaries in accounts 901 through 930 were considered to be 93.47% distribution-related and 6.53% general-related. These ratios were calculated using the respective dollars compared to the total utility plant in service dollars. The proportion that was considered to be distribution related was calculated by dividing the distribution plant dollars (\$98,386,830) by the total utility plant in service dollars (\$105,262,626), which yielded a ratio of 93.47%. The proportion that was general-related was calculated by dividing the general related dollars (\$6,875,796) by the total utility plant in service dollars (\$105,262,626), which yielded a ratio of 6.53%. Wages and salaries in account 935 were considered to be 100% general-related. The allocations are included in Volume II, Exhibit H-5, Attachment 5 (documents numbered 000660 – 000661) of JPEC’s Application for Rate Increase.

Witness: Gary Stephens.

36. Refer to Exhibit H, Thomas E. Kandel Testimony (“Kandel Testimony”), TEK-3 page 1 of 29, of the Application. The letter references time recording practices that incorrectly allocate labor between construction and retirement activities. In 2002, the practice had a significant impact on depreciation reserves. For the current depreciation study, Jackson Purchase

personnel had reverted to the incorrect time reporting practices despite being instructed to report its time correctly. Explain the impact on the results of the current depreciation study from Jackson Purchase's incorrect time practices.

RESPONSE: Jackson Purchase has reviewed its time reporting processes for recording the division of labor between retirement and construction on work order jobs. Crew leaders record time to retirement and construction on replacement jobs and those time records are approved by operation supervisors. Those supervisors have approved each time sheet for every individual charging time to retirement. Jackson Purchase does not believe that it is not now, nor has in the recent past (including periods covered by the test year) recorded retirement hours in a materially improper manner. Jackson Purchase Energy Corporation does not anticipate that it will materially change the manner in which it charges retirement labor or that the ratio of construction to retirement labor will change.

JPEC has consulted its independent auditor to see if that firm has observed any instances of retirement labor improperly charged. As part of the auditor's review, the firm compares the relationship of construction and retirement labor to total labor against industry averages. Those national averages are around 25% for construction and 5% for retirement. For 2006 and 2007 the ratios for JPEC are as follows:

	<u>2007</u>	<u>2006</u>
Construction	25.8%	26.1%
Retirement	4.4%	5.1%

JPEC does recognize that its retirement labor may appear high compared to other utilities because it is one of the few utilities using a modified FIFO fixed asset system compared to the much more prevalent average cost system. Please reference the pre-filed testimony of Chuck

Williamson found in (Volume II, Exhibit H-2, documents numbered 000502 through 000504), Questions 24 through 35.

Witness: Chuck Williamson.

37. Refer to Kandel Testimony TEK-3 Exhibit A, page 23 of 29, of the Application.
- a. Provide the work papers supporting the Exhibit.
 - b. If not included above, provide an explanation of S and J analysis methods.
 - c. If not included above, provide the Iowa curves and corresponding life tables that serve as the basis for the study.
 - d. If not included above, explain what the Conformance Index is, how it is calculated, and how it is used in the analysis.
 - e. If not included above, explain what the Retirement Experience Index is, how it is calculated, and how it is used in the analysis.

RESPONSE: See also Exhibits 15, 16, and 17 attached hereto.

- a. Workpapers supporting Exhibit A, SPR (Simulated Plant Record) Analysis, consist of the optimization calculation sheets and the data input sheets (please see accompanying workpapers). SPR analysis was necessary since vintage records were not available. Had vintage records been maintained, they would have shown the year units were installed and tracked those units throughout their lives to retirement. Average lives of plant for which vintage records are maintained can be calculated from that installation/retirement record. Though technology is now becoming more available, historically such a vintage record keeping system would have been cost prohibitive for most utilities. Vintage records are not required.

Average cost Continuing Property Records (CPRs) are required by the Rural Utilities Service (RUS) and have been maintained by Jackson Purchase.

With average cost CPRs, the annual additions, the total annual retirements, and the ending balance for each account are known. However, the year of installation of each retired unit is not known. Without the association of the year of installation to the retired units, the average lives of the plant cannot be readily calculated. Therefore, it was necessary to resort to SPR Analysis. Utilizing SPR Analysis, the available information was compared to existing models. The models used were the Iowa curves. The Iowa curves model life characteristics of mass industrial property and are a model generally accepted and utilized by utilities and commissions.

While (1) utilizing the yearly additions available in the CPRs; (2) substituting in vintage retirements based on the Iowa curves ; (3) comparing the simulated ending account balance to the actual ending balances, which are known from the CPRs, and (4) repeatedly doing this by increasing or decreasing the average life, a best estimate of the plant lives for each curve was developed. Specifically, the best estimate was determined by comparing the sum of the squared differences between the simulated and actual account balances. Since an optimum life is calculated for each of the 31 Iowa curves, the Conformance Index and the Retirement Experience Index are used to measure the fit of the data to each of the curves and assist in the selection of the best curve and life.

The Conformance Index is calculated by dividing the Average Actual Balance by the Square Root of the Average Sum of Squared Deviations for each curve (see item d. below for further information).

The Retirement Experience Index is the percent of additions from the oldest vintage that would have retired by the end of the most recent test year if the additions had retired according to the retirement characteristics of each specified curve. The higher the Retirement Experience Index the longer the curve based on actual data versus model (see item e. below for further information).

The data input sheets consist of the annual additions and retirements, either by dollars or units for each of the plant groups used in the depreciation study. 1949 is the first year of data, although the first year actually consists of all additions and retirements prior to 1949. The software used only allows 58 years of entry so the early items had to be combined. This had little impact on the study because several cycles of plant lives have been included in the study. The optimization calculations are the computer generated calculations for each of the plant groups based on the data input of annual additions and retirements. The appropriate calculations are made for each curve (estimated life, squared error, etc.). Based on the data, the optimization calculation, and discussions with knowledgeable personnel of the cooperative, the best fit curve is selected for use in the study along with the estimated life.

b. Explanation of the terms S and J – S is for simulation. The curve and estimated life were selected based on the computer calculated amounts per the optimization calculation sheet. J is for judgment. J is used only twice; for items

which did not present an optimization calculation sheet which contained meaningful, reliable data. Discussions were had with appropriate personnel and estimated lives were selected based on field observations.

c. The optimization calculations include the plotting of actual data for each Iowa curve for each plant group (see item a. above for additional information).

d. The computer model uses actual data to compute simulated data. The Conformance Index (CI) is a measure of the closeness of the fit of the simulated data to the actual data for each Iowa curve. Ideally, the CI will be 75 or higher, which indicates a close fit of the simulated data and actual data. As the CI becomes a number much lower than 75, the fit of the simulated data and actual data has a high deviation from the curve model. For this study, several of the plant groups had a CI of less than 75. Although these low CIs indicate a relatively high deviation from the curve model, due to the acceptable Retirement Experience Index and reasonable life estimations they were deemed to be sufficient to produce valid study results.

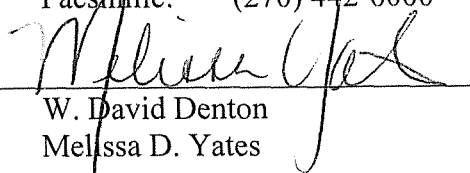
e. The computer model also produces a measure of the amount of the Iowa curve which was simulated, when not enough actual data was available. This measure is called the Retirement Experience Index (REI). Since 58 years of data was available for the study and was input into the computer model, most of the curve selections for each of the plant groups had REIs of close to 100. This indicates a highly reliable curve selection since so much historical data was available.

Witness: Thomas E. Kandel.

Respectfully submitted,

DENTON & KEULER
P. O. BOX 929
PADUCAH KY 42002-0929
Telephone: (270) 443-8253
Facsimile: (270) 442-6000

By:


W. David Denton
Melissa D. Yates

ATTORNEYS FOR JPEC

I hereby certify that the foregoing has
been served by mailing a true and
correct copy to:

EXECUTIVE DIRECTOR
KENTUCKY PUBLIC SERVICE COMMISSION
211 SOWER BLVD.
FRANKFORT KY 40602

DENNIS G HOWARD
OFFICE OF THE ATTORNEY GENERAL
1024 CAPITAL CENTER DRIVE
SUITE 200
FRANKFORT KY 40601-8204

on this ^{20th} day of February, 2008.


Melissa D. Yates



APR 12 2007

Mr. G. Kelly Nuckols
President/CEO
Jackson Purchase Energy
Corporation
P.O. Box 4030
Paducah, Kentucky 42002-4030

Dear Mr. Nuckols:

We have completed our review of Jackson Purchase Energy Corporation's (Jackson Purchase), December 31, 2006, Form 7, Financial and Statistical Report, and note that Jackson Purchase did not meet the minimum Times Interest Earned Ratio (TIER) or Debt Service Coverage (DSC) of 1.25, or Operating TIER (OTIER) of 1.1, requirements outlined in Article V, Section 5.4, of the Loan Contract.

Please let us know what areas have had an adverse effect on Jackson Purchase's financial condition and outline the corrective measures that have been or will be implemented to correct the inadequate ratios. Include the projected TIER, OTIER, DSC, and Operating DSC for the year ending December 31, 2007.

We would appreciate receiving your response within 30 days from the date of this letter.

Sincerely,

BRIAN D. JENKINS

BRIAN D. JENKINS
Chief, Operations Branch
Northern Regional Division
Electric Programs

cc: NRD-OB Official File (KY 20)

GFR - Norman // NRD-OB Reading File // Loan Security File
RD:NRD:OB:WFrost:720-1381:hl:4/10/07:Kentucky\KY 20 \NADEQ-TIER-OTIER-DSC_2006.doc

4/12/07



July 25, 2007

Brian D. Jenkins
Chief, Operations Branch
Electric Programs
United States Department of Agriculture
Rural Development Utilities Programs
Northern Regional Division
Mail Stop 1566
1400 Independence Ave., S.W.
Washington, D.C. 20250-1566

Dear Mr. Jenkins:

In response to your letter of April 12, 2007 concerning JPEC's lack of meeting the minimum TIER and DSC requirements as outlined in Article V, Section 5.4 of the Loan Contract, JPEC has filed with the Kentucky Public Service Commission (KPSC) a notice of JPEC's intent to seek a rate adjustment (KPSC Case 2007-00116). JPEC intends to seek rate adjustments with a target TIER of 2.0, subject to KPSC review, adjustment and approval.

The KPSC required in support of the rate adjustment a depreciation study to be completed and submitted as a part of the rate filing. Through the work of RUS and JPEC the depreciation study and findings have been forwarded to CFC for inclusion in the cost-of-service analysis to support the adjustments in revenue and rates.

I am sorry for the late response, as your letter was filed without the proper response. I hope this information satisfies your request. If you need any additional information you may call, write or email.

Sincerely,

G. Kelly Nuckols
President/CEO



According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0572-0032. The time required to complete this information collection is estimated to average 16 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

UNITED STATES DEPARTMENT OF AGRICULTURE
RURAL UTILITIES SERVICE

BORROWER DESIGNATION KY0020

FINANCIAL AND STATISTICAL REPORT

PERIOD ENDED
December, 2007 (Prepared with Audited Data)

INSTRUCTIONS - For detailed instructions, see RUS Bulletin 1717B-2

BORROWER NAME

This data will be used by RUS to review your financial situation. Your response is required (7 U.S.C. 901 et. seq.) and may be confidential

JACKSON PURCHASE ENERGY CORPORATION

CERTIFICATION

We recognize that statements contained herein concern a matter within the jurisdiction of an agency of the United States and the making of a false, fictitious or fraudulent statement may render the maker subject to prosecution under Title 18, United States Code Section 1001.

We hereby certify that the entries in this report are in accordance with the accounts and other records of the system and reflect the status of the system to the best of our knowledge and belief.

ALL INSURANCE REQUIRED BY PART 1788 OF 7 CFR CHAPTER XVII, RUS, WAS IN FORCE DURING THE REPORTING PERIOD AND RENEWALS HAVE BEEN OBTAINED FOR ALL POLICIES

DURING THE PERIOD COVERED BY THIS REPORT PURSUANT TO PART 1718 OF 7 CFR CHAPTER XVII
(check one of the following)

All of the obligations under the RUS loan documents have been fulfilled in all material respects.

There has been a default in the fulfillment of the obligations under the RUS loan documents. Said default(s) is/are specifically described in Part D of this report.

Kelly Nuckols

2/20/2008

DATE

PART A. STATEMENT OF OPERATIONS

ITEM	YEAR-TO-DATE			THIS MONTH
	LAST YEAR (a)	THIS YEAR (b)	BUDGET (c)	
1. Operating Revenue and Patronage Capital	37,396,373	40,365,878	39,716,655	3,667,177
2. Power Production Expense	0	0	0	0
3. Cost of Purchased Power	23,655,944	25,264,491	24,293,649	2,126,672
4. Transmission Expense	0	0	0	0
5. Distribution Expense - Operation	1,761,777	1,904,431	1,863,800	225,744
6. Distribution Expense - Maintenance	3,413,939	3,396,713	3,129,218	222,705
7. Customer Accounts Expense	1,088,682	1,113,676	1,120,640	96,162
8. Customer Service and Informational Expense	220,972	246,621	270,817	23,392
9. Sales Expense	56,695	27,111	46,204	(3,985)
10. Administrative and General Expense	1,992,235	2,015,156	2,127,338	165,468
11. Total Operation & Maintenance Expense (2 thru 10)	32,190,244	33,968,199	32,851,666	2,856,158
12. Depreciation and Amortization Expense	3,235,100	3,433,896	3,447,394	291,689
13. Tax Expense - Property & Gross Receipts	0	0	0	0
14. Tax Expense - Other	41,657	43,167	43,146	3,635
15. Interest on Long-Term Debt	2,660,517	2,615,535	2,685,662	214,538
16. Interest Charged to Construction - Credit	0	0	0	0
17. Interest Expense - Other	66,910	81,495	203,368	9,306
18. Other Deductions	1,424	1,395	0	0
19. Total Cost of Electric Service (11 thru 18)	38,195,852	40,143,687	39,231,236	3,375,326
20. Patronage Capital & Operating Margins (1 minus 19)	(799,479)	222,191	485,419	291,851
21. Non Operating Margins - Interest	593,283	424,045	364,800	28,659
22. Allowance for Funds Used During Construction	0	0	0	0
23. Income (Loss) from Equity Investments	0	0	0	0
24. Non Operating Margins - Other	(14,573)	40,022	8,340	24,663
25. Generation and Transmission Capital Credits	0	0	0	0
26. Other Capital Credits and Patronage Dividends	113,229	133,805	112,900	0
27. Extraordinary Items	0	0	0	0
28. Patronage Capital or Margins (20 thru 27)	(107,540)	820,063	971,459	345,173

USDA - RUS	BORROWER DESIGNATION KY0020
FINANCIAL AND STATISTICAL REPORT	PERIOD ENDED December, 2007
INSTRUCTIONS - See RUS Bulletin 1717B-2	

PART B. DATA ON TRANSMISSION AND DISTRIBUTION PLANT

ITEM	YEAR-TO-DATE		ITEM	YEAR-TO-DATE	
	LAST YEAR (a)	THIS YEAR (b)		LAST YEAR (a)	THIS YEAR (b)
1. New Services Connected	539	603	5. Miles Transmission	0.00	0.00
2. Services Retired	65	101	6. Miles Distribution - Overhead	2,692.00	2,699.47
3. Total Services in Place	33,393	33,895	7. Miles Distribution - Underground	552.00	571.92
4. Idle Services (Exclude Seasonals)	4,801	4,978	8. Total Miles Energized (5 + 6 + 7)	3,244.00	3,271.39

PART C. BALANCE SHEET

ASSETS AND OTHER DEBITS		LIABILITIES AND OTHER CREDITS	
1. Total Utility Plant in Service	112,061,385	29. Memberships.....	194,470
2. Construction Work in Progress	1,138,886	30. Patronage Capital.....	34,343,253
3. Total Utility Plant (1 + 2)	113,200,271	31. Operating Margins - Prior Years.....	0
4. Accum. Provision for Depreciation and Amort	34,096,756	32. Operating Margins - Current Year.....	222,191
5. Net Utility Plant (3 - 4)	79,103,515	33. Non-Operating Margins.....	597,872
6. Non-Utility Property (Net)	71,955	34. Other Margins and Equities.....	(598,756)
7. Investments in Subsidiary Companies	0	35. Total Margins & Equities (29 thru 34).....	34,759,030
8. Invest. in Assoc. Org - Patronage Capital	507,114	36. Long-Term Debt - RUS (Net).....	27,249,828
9. Invest. in Assoc. Org - Other - General Funds	5,000	37. Long-Term Debt - FFB - RUS Guaranteed.....	16,205,858
10. Invest. in Assoc. Org - Other - Nongeneral Funds.....	1,579,452	38. Long-Term Debt - Other - RUS Guaranteed.....	0
11. Investments in Economic Development Projects	0	39. Long-Term Debt Other (Net).....	5,752,909
12. Other Investments	0	40. Long-Term Debt - RUS - Econ. Devel. (Net).....	0
13. Special Funds	134,224	41. Payments - Unapplied	4,659,748
14. Total Other Property & Investments (6 thru 13)	2,297,745	42. Total Long-Term Debt (36 thru 40 - 41).....	44,548,847
15. Cash - General Funds	275,748	43. Obligations Under Capital Leases - Noncurrent.....	0
16. Cash - Construction Funds - Trustee	33	44. Accumulated Operating Provisions and Asset Retirement Obligations	1,555,510
17. Special Deposits	0	45. Total Other Noncurrent Liabilities (43 + 44).....	1,555,510
18. Temporary Investments	0	46. Notes Payable.....	800,000
19. Notes Receivable (Net)	0	47. Accounts Payable.....	2,860,116
20. Accounts Receivable - Sales of Energy (Net)	2,133,607	48. Consumers Deposits.....	1,409,622
21. Accounts Receivable - Other (Net)	195,449	49. Current Maturities Long-Term Debt.....	2,219,817
22. Materials and Supplies - Electric & Other	1,642,580	50. Current Maturities Long-Term Debt -Economic Development.....	0
23. Prepayments	430,173	51. Current Maturities Capital Leases.....	0
24. Other Current and Accrued Assets	1,681,546	52. Other Current and Accrued Liabilities.....	502,253
25. Total Current and Accrued Assets (15 thru 24)	6,359,136	53. Total Current & Accrued Liabilities (46 thru 52).....	7,791,808
26. Regulatory Assets	0	54. Regulatory Liabilities.....	0
27. Other Deferred Debits	1,133,309	55. Other Deferred Credits.....	238,510
28. Total Assets and Other Debits (5+14+25 thru 27).....	88,893,705	56. Total Liabilities and Other Credits (35 + 42 + 45 + 53 thru 55).....	88,893,705

USDA-RUS

FINANCIAL AND STATISTICAL REPORT

INSTRUCTIONS - See RUS Bulletin 1717B-2

BORROWER DESIGNATION

KY0020

PERIOD ENDED

December, 2007

PART D. NOTES TO FINANCIAL STATEMENTS

An accurate estimate of Contributions in Aid of Construction on plant cannot be made. The amount shown reflects contributions made since inception of tracking.

The Corporation has collected GPS data and has electronically mapped its entire system. Data collection expense has been deferred into account 186 and is being amortized over an eight (8) year life.

The Corporation has not made it's TIER requirements for 2006 and 2007. The Corporation sought rate relief in 2007 with Case #2007-00116 filed with the Kentucky Public Service Commission, currently in progress. The Corporation expects an order in this case in 2008.

USDA - RUS	BORROWER DESIGNATION KY0020
FINANCIAL AND STATISTICAL REPORT	PERIOD ENDED December, 2007
INSTRUCTIONS - See RUS Bulletin 1717B-2	

PART E. CHANGES IN UTILITY PLANT

PLANT ITEM	BALANCE BEGINNING OF YEAR (a)	ADDITIONS (b)	RETIREMENTS (c)	ADJUSTMENTS AND TRANSFER (d)	BALANCE END OF YEAR (e)
1. Distribution Plant	98,386,830	7,229,805	960,727		104,655,908
2. General Plant	4,741,891	603,124	235,776		5,109,239
3. Headquarters Plant	2,133,905	162,333	0		2,296,238
4. Intangibles	0	0	0	0	0
5. Transmission Plant	0				0
6. All Other Utility Plant	0				0
7. Total Utility Plant in Service (1 thru 6)	105,262,626	7,995,262	1,196,503	0	112,061,385
8. Construction Work in Progress	3,204,055	(2,065,169)			1,138,886
9. TOTAL UTILITY PLANT (7 + 8)	108,466,681	5,930,093	1,196,503	0	113,200,271

PART F. MATERIALS AND SUPPLIES

ITEM	BALANCE BEGINNING OF YEAR (a)	PURCHASED (b)	SALVAGED (c)	USED (NET) (d)	SOLD (e)	ADJUSTMENT (f)	BALANCE END OF YEAR (g)
1. Electric	1,177,989	1,904,936	160,404	1,556,473	9,148	(40,508)	1,637,200
2. Other	5,107	6,246	0	5,973	0	0	5,380

PART G. SERVICE INTERRUPTIONS

ITEM	AVERAGE HOURS PER CONSUMER BY CAUSE				TOTAL (e)
	POWER SUPPLIER (a)	EXTREME STORM (b)	PREARRANGED (c)	ALL OTHER (d)	
1. Present Year	.14	1.19	.01	1.62	2.96
2. Five-Year Average	.08	1.83	.03	1.75	3.70

PART H. EMPLOYEE-HOUR AND PAYROLL STATISTICS

1. Number of Full Time Employees	79	4. Payroll - Expensed	3,060,900
2. Employee - Hours Worked - Regular Time	159,768	5. Payroll - Capitalized	1,371,539
3. Employee - Hours Worked - Overtime	12,613	6. Payroll - Other	236

PART I. PATRONAGE CAPITAL

ITEM	DESCRIPTION	THIS YEAR (a)	CUMULATIVE (b)
1. Capital Credits - Distributions	a. General Retirements	0	0
	b. Special Retirements	0	0
	c. Total Retirements (a + b)	0	0
2. Capital Credits - Received	a. Cash Received From Retirement of Patronage Capital by Suppliers of Electric Power	0	
	b. Cash Received From Retirement of Patronage Capital by Lenders for Credit Extended to the Electric System	64,280	
	c. Total Cash Received (a + b)	64,280	

PART J. DUE FROM CONSUMERS FOR ELECTRIC SERVICE

1. AMOUNT DUE OVER 60 DAYS	\$ 94,125	2. AMOUNT WRITTEN OFF DURING YEAR	\$ 59,505
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USDA-RUS

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Part K. kWh PURCHASED AND TOTAL COST

No	ITEM (a)	RUS USE ONLY SUPPLIER CODE (b)	kWh PURCHASED (c)	TOTAL COST (d)	AVERAGE COST (Cents/kWh) (e)	INCLUDED IN TOTAL COST - FUEL COST ADJUSTMENT (f)	INCLUDED IN TOTAL COST - WHEELING AND OTHER CHARGES (g)
1	Big Rivers Electric Corp (KY) (KY0062)	1692	718,915,436	25,264,491	3.51	0	0
	Total		718,915,436	25,264,491	3.51	0	0

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PART L. LONG-TERM LEASES

No	NAME OF LESSOR (a)	TYPE OF PROPERTY (b)	RENTAL THIS YEAR (c)
Total			

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PART M. ANNUAL MEETING AND BOARD DATA

1. Date of Last Annual Meeting 6/5/2007	2. Total Number of Members 22,374	3. Number of Members Present at Meeting 206	4. Was Quorum Present? Y
5. Number of Members Voting by Proxy or Mail 0	6. Total Number of Board Members 8	7. Total Amount of Fees and Expenses for Board Members \$ 66,402	8. Does Manager Have Written Contract? N

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PART N. LONG-TERM DEBT AND DEBT SERVICE REQUIREMENTS

No	ITEM	BALANCE END OF YEAR (a)	INTEREST (Billed This Year) (b)	PRINCIPAL (Billed This Year) (c)	TOTAL (Billed This Year) (d)
1	Rural Utilities Service (Excludes RUS - Economic Development Loans)	27,249,828	1,403,661	645,565	2,049,226
2	National Rural Utilities Cooperative Finance Corporation	743,349	44,042	46,664	90,706
3	Bank for Cooperatives	5,009,560	356,964	645,565	1,002,529
4	Federal Financing Bank	16,205,858	1,018,736	757,283	1,776,019
5	RUS - Economic Development Loans	0			
6	Payments Unapplied	4,659,748			
	Total	44,548,847	2,823,403	2,095,077	4,918,480

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PART O. POWER REQUIREMENTS DATA BASE - ANNUAL SUMMARY

CLASSIFICATION	CONSUMER SALES & REVENUE DATA	DECEMBER		TOTAL YEAR TO DATE (c)
		(a)	AVERAGE NO. CONSUMERS SERVED (b)	
1. Residential Sales (excluding seasonal)	a. No. Consumers Served	25,908	25,782	414,636,660
	b. kWh Sold			25,697,996
	c. Revenue			
2. Residential Sales - Seasonal	a. No. Consumers Served	0	0	0
	b. kWh Sold			0
	c. Revenue			
3. Irrigation Sales	a. No. Consumers Served	7	7	1,068,083
	b. kWh Sold			16,643
	c. Revenue			
4. Comm. and Ind. 1000 KVA or Less	a. No. Consumers Served	2,988	2,944	184,634,346
	b. kWh Sold			9,922,758
	c. Revenue			
5. Comm. and Ind. Over 1000 KVA	a. No. Consumers Served	8	8	80,480,241
	b. kWh Sold			3,664,251
	c. Revenue			
6. Public Street & Highway Lighting	a. No. Consumers Served	6	6	589,962
	b. kWh Sold			70,751
	c. Revenue			
7. Other Sales to Public Authorities	a. No. Consumers Served	0	0	0
	b. kWh Sold			0
	c. Revenue			
8. Sales for Resale - RUS Borrowers	a. No. Consumers Served	0	0	0
	b. kWh Sold			0
	c. Revenue			
9. Sales for Resale - Other	a. No. Consumers Served	0	0	0
	b. kWh Sold			0
	c. Revenue			
10. TOTAL No. of Consumers (lines 1a thru 9a)		28,917	28,747	681,409,292
11. TOTAL kWh Sold (lines 1b thru 9b)				39,372,399
12. TOTAL Revenue Received From Sales of Electric Energy (line 1c thru 9c)				993,479
13. Other Electric Revenue				173,257
14. kWh - Own Use				718,915,436
15. TOTAL kWh Purchased				0
16. TOTAL kWh Generated				25,264,491
17. Cost of Purchases and Generation				0
18. Interchange - kWh - Net				
19. Peak - Sum All kW Input (Metered) Non-coincident <input type="checkbox"/> Coincident <input checked="" type="checkbox"/>				164,605

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PART I. INVESTMENTS

No	DESCRIPTION (a)	INCLUDED (\$) (b)	EXCLUDED (\$) (c)	INCOME OR LOSS (\$) (d)	RURAL DEVELOPMENT (e)
1	Non-Utility Property (NET)				
	Communication Cable		71,955		X
	Totals		71,955		
2	Investments in Associated Organizations		38,762	5,133	
	NRUCFC-Herndon, VA Patronage Capital			14,372	
	United Utility Supply-Louisville, KY Patronage Capital	298,913		4,716	
	Ky Assoc Elec Coops-Lou, KY Patronage Capital	58,656		0	
	NISC-St Peters, MO Patronage Capital	2,285		266	
	KAEC-Lou, KY Certificate of Deposit	5,000			
	NRUCFC-Herndon, VA Capital Term Certificates		945,663	46,407	
	Rural Coop Credit Union		5	0	
	NRUCFC-Herndon, VA Membership Certificate		1,000		
	NRECA-Arlington VA Membership Certificate	10			
	Big Rivers Electric Corp-Henderson, KY Membership	25			
	CoBank-Denver, CO		632,749	66,278	
	Federal Rrl Eic Ins Exc-Lenexa, KS Patronage Capital	89,046		16,498	
	National Rrl Tel Coop-Herndon, VA Patronage Capital	19,031		26,808	
	Ballard Rrl Tel Coop-LaCenter, KY Patronage Capital	421	0	0	
	Totals	473,387	1,618,179	180,478	
5	Special Funds				
	Deferred Compensation Assets		134,224		
	Totals		134,224		
6	Cash - General				
	Paducah Bank-Paducah, KY General Checking	137,896	100,000		
	Cash in Drawers & Petty Cash	1,700			
	Credit Card Charges in Transit	28,841			
	E-payments in Transit	7,311			
	Totals	175,748	100,000		
9	Accounts and Notes Receivable - NET				
	Accounts Receivable-Other	195,449		0	
	Totals	195,449		0	
11	TOTAL INVESTMENTS (1 thru 10)	844,584	1,924,358	180,478	

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PART II. LOAN GUARANTEES

No	ORGANIZATION (a)	MATURITY DATE (b)	ORIGINAL AMOUNT (\$) (c)	LOAN BALANCE (\$) (d)	RURAL DEVELOPMENT (e)
	Total				
	TOTAL (Include Loan Guarantees Only)				

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Part III. RATIO

.74 %

RATIO OF INVESTMENTS AND LOAN GUARANTEES TO UTILITY PLANT
[Total Of Included Investments (Part I, 11b) and Loan Guarantees - Loan Balance (Part II, 5d) to Total Utility Plant (Form7, Part C, Line3)]

PART IV. LOANS

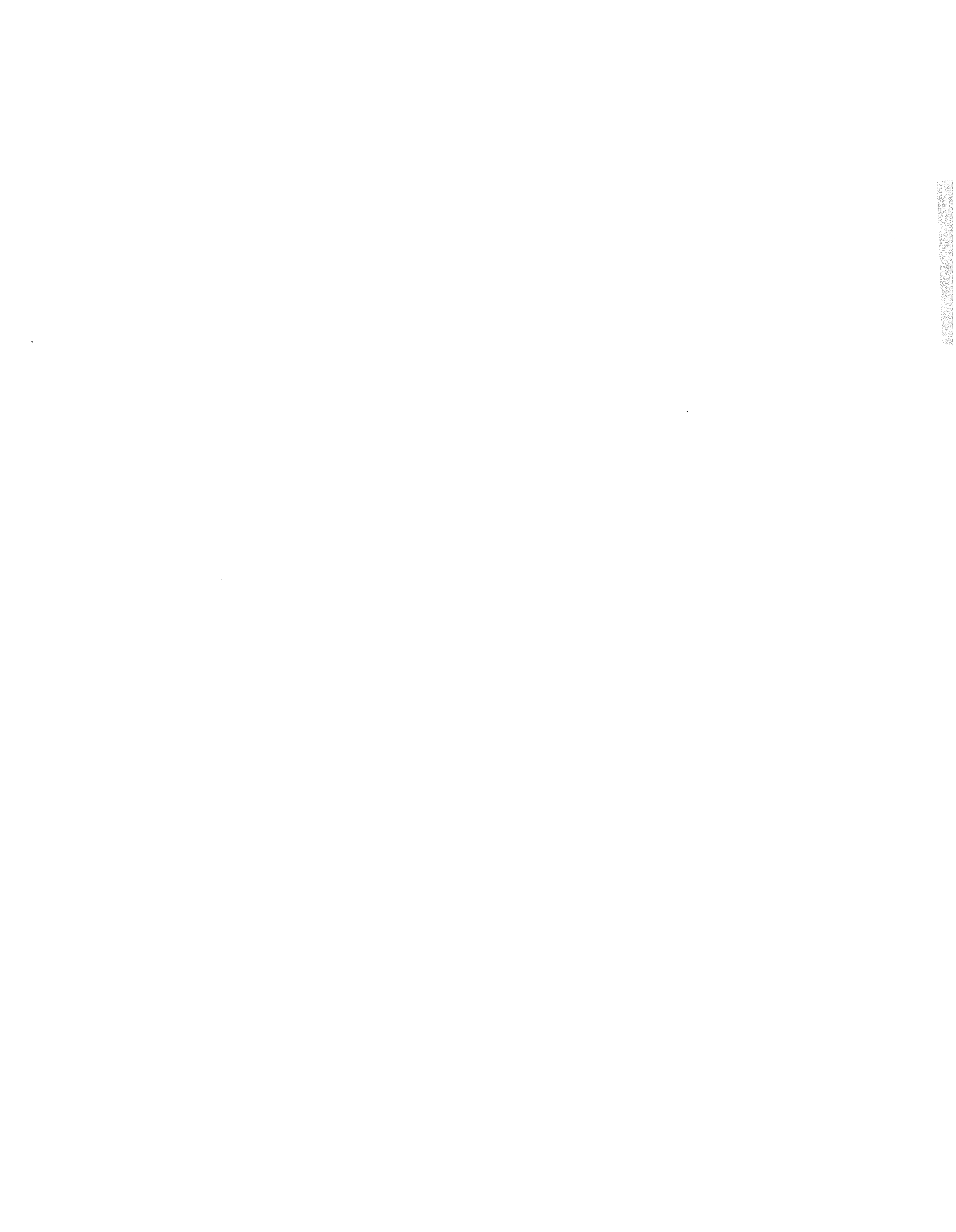
No	ORGANIZATION (a)	MATURITY DATE (b)	ORIGINAL AMOUNT (\$) (c)	LOAN BALANCE (\$) (d)	RURAL DEVELOPMENT (e)
Total					

1
 2 **Jackson Purchase Energy Corporation**
 3 **Case No. 2007-00116**
 4 **Current, Proposed and RUS Depreciation Rates**
 5 **December 31, 2006**
 6
 7

Exhibit 4
 Page 1 of 1
 Witness: Chuck Williamson

			RUS		
			Current	Proposed	Proposed
			Depr	Depr	Depr
			Rate	Rate	Rate
A/C	Account				
No.					
DISTRIBUTION PLANT					
360	Land & Land Rights		0.00%	0.00%	0.00%
361	Structures & Improvements		0.00%	0.00%	0.00%
362	Station Equipment		1.53%	1.60%	1.60%
364	Poles, Towers & Fixtures		4.19%	4.31%	4.31%
365	Overhead Cond. & Devices		3.47%	3.59%	3.59%
366	Underground Conduit		1.77%	1.69%	1.69%
367	Undergrd. Cond. & Devices		3.19%	2.90%	2.90%
368	Line Transformers		2.75%	5.31%	5.31%
369	Services		2.23%	1.48%	1.48%
370	Meters		4.34%	3.99%	3.99%
371	Install. on Cons. Premises		6.42%	12.09%	12.09%
372	Leased Prop. on Cons. Prems.		10.00%	0.00%	0.00%
373	St. Ltg. & Signal Systems		1.44%	3.47%	3.47%
GENERAL PLANT					
389	Land & Land Rights		0.00%	0.00%	n/a
390	Structures & Improvements		2.50%	2.50%	n/a
391	Office Furniture & Equip.		5.00%	5.00%	n/a
392	Transportation Equipment - Heavy		10.00%	10.00%	n/a
392.1	Transportation Equipment - Light		20.00%	20.00%	n/a
393	Stores Equipment		5.00%	5.00%	n/a
394	Tools, Shop & Garage Equip.		6.67%	6.67%	n/a
395	Laboratory Equipment		6.67%	6.67%	n/a
396	Power Operated Equip.		10.00%	10.00%	n/a
397	Communication Equip.		5.00%	5.00%	n/a
398	Miscellaneous Equip.		10.00%	10.00%	n/a

38
 39 **NOTES: RUS recommended rates are the same as the Proposed Rates.**
 40 **RUS did not perform a study in general plant rate, but no changes in those rates are proposed**
 41
 42



Jackson Purchase Energy Corporation
Case No. 2007-00000
Schedule of Interest Rates on Long-Term Debt @ 1/31/08
December 31, 2006

Type of Debt Issued (a)	Date of Issue (b)	Balance at 12/31/2006 (c)	Interest Rate @ 1/31/2008 (d)
12 RUS Loans:			
0B180	9/26/1972	\$ 11,638	2.00%
0B182	9/26/1972	11,643	2.00%
1B260	8/25/1982	472,505	5.00%
1B262	8/25/1982	472,506	5.00%
1B270/1B273	9/20/1984	1,861,615	5.00%
1B280	6/22/1988	1,036,808	5.00%
1B281/1B283	6/22/1988	1,065,788	5.00%
1B290/1B292	8/20/1991	2,250,765	5.00%
1B300/1B305	9/3/1993	3,700,387	5.00%
1B310/1B311	1/25/1996	4,263,044	5.00%
1B320	2/4/2000	6,249,653	5.00%
1B330	7/24/2001	4,306,025	5.53%
1B331	6/3/2003	307,130	3.67%
1B332	6/3/2003	2,782,022	3.67%
28 FFB Loans:			
H0010 (FFB)	6/3/2003	\$ 2,401,200	4.226%
H0015 (FFB)	6/17/2004	2,089,286	4.422%
H0020 (FFB)	6/17/2004	2,089,286	5.283%
H0025 (FFB)	9/29/2005	5,318,182	4.534%
H0030 (FFB)	3/7/2006	5,822,470	4.913%
35 CFC Loans:			
9001 (CFC)	08/31/84	\$ 836,677	5.375% (Effective)
38 CoBank Loans:			
ML0731T2	02/24/94	\$1,638,614	4.97% (Variable)
ML0731T3	08/27/91	1,092,192	4.97% (Variable)
ML0731T5	06/15/88	1,052,930	4.97% (Variable)
ML0731T6	09/02/03	2,515,862	4.78%

OUR WORLD BEYOND ELECTRICITY

A PROGRAM DEDICATED TO UNDERSTANDING THE ISSUES INVOLVED IN BOTH THE DECISION PROCESS AND THE OPERATIONAL ISSUES RELATED TO CO-OP ACTIVITY IN NON-ELECTRIC BUSINESSES. FUNDED BY CFC'S EDUCATIONAL FUNDS.

**MARRIOTT EAST
EMBASSY SQUARE BOULEVARD
LOUISVILLE, KY
August 15-16, 2006
AGENDA**

TIME	TOPIC	SPEAKER
-------------	--------------	----------------

Day One

12:00 noon-1:00 p.m. LUNCH

1:00-1:30 p.m. Welcome and background Ron Sheets, KAEC

The circumstances leading to our need to introduce House Bill 568 in the Kentucky General Assembly are significant. Even more significant was the strategy we established, and effectively executed, which led to the adoption of this historic legislation.

1:30-2:00 p.m. History of HB 568 Dan Yates, KAEC

Almost no legislation is easy to pass in the Kentucky General Assembly. Even the most simple resolutions oftentimes run into problems. The coalitions involved, both for and against HB 568, represented a virtual who's who in the Kentucky legislature. Dan will outline the successful history leading to the passage of House Bill 568.

2:00-4:00 p.m. Provisions of the legislation Sherman Goodpaster, Sr. Corporate Counsel, East Kentucky Power, and Jim Miller, Sullivan, Mountjoy, Stainback and Miller, and Corporate Counsel, Big Rivers Electric
(break included)

Both Sherman Goodpaster and Jim Miller will examine, in some considerable detail, the actual provisions of the legislation focusing on those provisions which have the most significant impact on electric cooperatives from a statutory perspective. We anticipate several questions to be asked of the audience during this discussion.

4:00-4:45 p.m. ConnectKentucky Brian Mefford, President And CEO

ConnectKentucky is an alliance of leaders in private industry, government and universities. They work together to develop the most effective technological infrastructure for Kentucky, including an aggressive schedule for providing broadband over power lines.

4:45 p.m. Recess day one, evening open

Day Two

8:00-8:45 a.m. Reporting and enforcement Requirements Aaron Greenwell and Richard Raff, PSC

There are specific compliance reporting requirements mandates by the statutory provisions of House Bill 568, including the current provisions of the voluntary guidelines which we have been complying with since the year 2000 relative to cost allocation and other provisions. The Public Service Commission is in charge of enforcing the provisions of House Bill 568.

8:45-9:30 a.m. Staffing and operating an affiliate Mike Beer, Vice President, Federal Regulations & Policies, LG&E

LG&E has experienced considerable history relative to staffing and operating affiliate organizations. Mike Beers of the company will outline this history and will focus particularly on the process of allocating staff time and corporate resources between the electric and non-electric portions of the organizations.

9:30-10:00 a.m. Meade's experience with Wild Blue Tim Gossett, Vice President Member Services and Marketing, Meade Co. RECC

Meade County RECC is the only co-op in Kentucky which provides Wild Blue services to its membership. Currently their service base is about 200 customers. Wild Blue employs a satellite technology and can be made available to co-op members throughout the state, although Meade County has focused on its immediate membership as a reasonable first step. Tim Gossett will talk about Meade County's experience with Wild Blue.

10:00-10:15 a.m. BREAK

10:15 a.m.-12:00 n Board evaluation, business models and financing issues Lynn Midgette, Vice President, Portfolio Management, CFC, and Allyn Amato, Assistant General Counsel, CFC

Lynn Midgette visited with the co-op managers at our Spring meeting in Lexington. She's coming back a second time, joined by Allyn Amato to focus specifically on what a board needs to consider before taking the action to become involved in affiliate activities. She will also address various business models and financing issues related to the operation of a non-electric activity within the electric co-op structure.

Closing comments and adjournment



Table 1
End-Of-Year Rate Base

Line No.	Acct No.	Description	Balance as of 12/31/2006	Adjustments	Adjusted Average
Plant					
1	360	DIST. PLT. - LAND AND LAND RIGHTS	\$235,871		\$235,871
2	362	DIST. PLT. - STATION EQUIPMENT	\$12,008,367		\$12,008,367
3	364	DIST. PLT.- POLES, TOWERS, FIXTURES	\$28,486,552		\$28,486,552
4	365	DIST. PLT. - O/H CONDUCT. & DEVICES	\$17,054,966		\$17,054,966
5	366	DIST. PLT. - UNDERGROUND CONDUIT	\$4,106,735		\$4,106,735
6	367	DIST. PLT. - U/G CONDUCT. & DEVICES	\$9,423,467		\$9,423,467
7	368	DIST. PLT. - LINE TRANSFORMERS	\$15,623,839		\$15,623,839
8	369	DIST. PLT. - SERVICES	\$6,468,811		\$6,468,811
9	370	DIST. PLT. - METERS	\$2,934,243		\$2,934,243
10	371	DIST PLT - INSTAL. ON CUST. PREMISE	\$1,484,794		\$1,484,794
11	372	DIST PLT - LSD. PROP. ON CUST. PREM	\$1,048		\$1,048
12	373	DIST PLT - ST. LIGHT. & SIGN. SYS.	\$558,138		\$558,138
13	389	GEN PLT - LAND AND LAND RIGHTS	\$86,866		\$86,866
14	390	GEN PLT - STRUCTURES & IMPROVEMENTS	\$2,047,039		\$2,047,039
15	391	GEN PLT - OFFICE FURNITURE & EQUIP	\$292,326		\$292,326
16	391.1	GEN PLT - COMPUTER EQUIP/ SOFTWARE	\$322,290		\$322,290
17	392	GEN PLT - UTILITY TRANSP. EQUIP.	\$2,079,856		\$2,079,856
18	392.1	GEN PLT - LIGHT DUTY TRANSP. EQUIP	\$375,930		\$375,930
19	393	GEN PLT - STORES EQUIPMENT	\$79,008		\$79,008
20	394	GEN PLT - TOOLS, SHOP, GARAGE EQUIP	\$451,976		\$451,976
21	395	GEN PLT - LABORATORY EQUIPMENT	\$169,060		\$169,060
22	396	GEN PLT - POWER OPERATED EQUIPMENT	\$287,695		\$287,695
23	397	GEN PLT - COMMUNICATIONS EQUIPMENT	\$589,509		\$589,509
24	398	GEN PLT - MISCELLANEOUS EQUIPMENT	\$94,242		\$94,242
25		Total Utility Plant In Service	\$105,262,626	\$0	\$105,262,626
26		CWIP	\$3,204,054		\$3,204,054
27		Normalizing Adjustment		\$77,266	\$77,266
28		Total CWIP	\$3,204,054	\$77,266	\$3,281,320
29		Total Utility Plant	\$108,466,680	\$77,266	\$108,543,946
Accumulated Depreciation					
30	108.662	ACCUM DEPR-STATION EQUIPMENT	\$1,264,923		\$1,264,923
31	108.664	ACCUM DEPR-POLES, TOWERS, & FIXTURE	\$10,628,842		\$10,628,842
32	108.665	ACCUM DEPR-O/H CONDUCTOR & DEVICES	\$5,642,593		\$5,642,593
33	108.666	ACCUM DEPR-UNDERGROUND CONDUIT	\$652,016		\$652,016
34	108.667	ACCUM DEPR-U/G CONDUCTOR & DEVICES	\$2,448,411		\$2,448,411
35	108.668	ACCUM DEPR-LINE TRANSFORMERS	\$3,610,938		\$3,610,938
36	108.669	ACCUM DEPR- SERVICES	\$2,415,868		\$2,415,868
37	108.67	ACCUM DEPR-METERS	\$1,163,276		\$1,163,276
38	108.671	ACCUM DEPR-INSTALLATIONS ON CUST PR	\$668,690		\$668,690
39	108.672	ACCUM DEPR-LEASED PROP CUST PREMISE	(\$101,973)		(\$101,973)
40	108.673	ACCUM DEPR-STREET LIGHT & SIGN	\$103,136		\$103,136
41	108.71	ACCUM DEPR FOR OFFICE FURN. & EQUIP	\$177,198		\$177,198
42	108.711	ACC DEPR FOR COMPUTER EQUIP/SOFTWARE	\$242,531		\$242,531
43	108.715	CONTRA ACCUM DEPR -OFFICE FURNITURE	(\$9,940)		(\$9,940)
44	108.716	CONTRA ACCUM DEPR - COMPUTERS	\$66,486		\$66,486
45	108.72	ACCUM DEPR - UTILITY TRANSP. EQUIP.	\$918,600		\$918,600
46	108.721	ACCUM DEPR - LIGHT DUTY TRANS EQUIP	\$223,423		\$223,423
47	108.723	ACCUM DEPR - CONTRA TRANSP. EQUIP	(\$241,081)		(\$241,081)
48	108.73	ACCUM DEPR FOR STRUCTURES & IMPROVE	\$1,203,593		\$1,203,593
49	108.735	CONTRA - ACCUM DEPR STRUCT & IMPRV	\$44,207		\$44,207

50	108.74	ACCUM DEPR FOR SHOP EQUIPMENT	\$310,883		\$310,883
51	108.745	CONTRA - ACCUM DEPR - TOOLS, SHOP	(\$33,107)		(\$33,107)
52	108.75	ACCUM DEPR FOR LABORATORY EQUIPMENT	\$121,303		\$121,303
53	108.755	CONTRA ACCUM DEPR - LABORATORY	(\$8,207)		(\$8,207)
54	108.76	ACCUM DEPR FOR COMMUNICATIONS EQUIP	\$214,539		\$214,539
55	108.765	CONTRA ACCUM DEPR - COMMUNICATION	(\$278,584)		(\$278,584)
56	108.77	ACCUM DEPR FOR STORES EQUIPMENT	\$57,258		\$57,258
57	108.775	CONTRA ACCUM DEPR - STORES	(\$4,114)		(\$4,114)
58	108.78	ACCUM DEPR FOR MISCELLANEOUS EQUIP	\$57,973		\$57,973
59	108.785	CONTRA - ACCUM DEPR - MISC EQUIP.	(\$6,217)		(\$6,217)
60	108.79	ACCUM DEPR FOR POWER OPERATED EQUIP	\$48,826		\$48,826
61	108.791	ACCUM DEPR - PWR EQUIP TRENCHER,ETC	\$111,970		\$111,970
62	108.795	CONTRA ACCUM DEPR - POWER OPERATED	\$18		\$18
63	108.8	RETIRE. WIP-JPECC CREWS	\$0		\$0
64	108.81	RETIRE. WIP-CONTRACTORS	\$0		\$0
		NORMALIZING ADJUSTMENT FOR DEPR.	\$0	\$594,580	\$594,580
65		Total Accumulated Depreciation	\$31,714,276	\$594,580	\$32,308,856
66		Net Plant	\$76,752,404	(\$517,314)	\$76,235,090
		Materials & Supplies			
67	154	PLT MATERIALS & OPERATING SUPPLIES	\$1,177,989	\$0	\$1,177,989
68	156	OTHER MATERIALS AND SUPPLIES	\$5,107	(\$4,338)	(\$4,338)
		NORMALIZING ADJUSTMENT	\$0	\$10,769	\$10,769
69			\$1,183,096	\$6,431	\$1,184,420
		Prepayments			
70	165.1	PREPAYMENTS - INSURANCE	\$349,795		\$349,795
71	165.15	PREPAID HEALTH INSURANCE-BENEFIT	\$64,272		\$64,272
72	165.2	PREPAYMENTS - OTHER	\$43,857		\$43,857
73	165.21	PREPAID RETIREMENT FUND/CO PD BENE	(\$1)		(\$1)
74	165.211	PREPAID LIFE INSURANCE/CO PAID BEN	(\$182)		(\$182)
75	165.22	PREPAID L T D FUND/CO. PD. BENEFIT	\$0		\$0
76	165.24	PREPAID SAVINGS PLAN/CO PD BENEFIT	(\$1,422)		(\$1,422)
77	165.25	RETIREMENT FUND-IBEW/BARG CO PD BEN	(\$0)		(\$0)
78	165.26	PAST SERVICE LIABILITY FUND	\$0		\$0
79	165.27	PREPAID 401K LOAN REPAYMENTS	(\$3,316)		(\$3,316)
80	165.28	PREPAID INSURANCE - RETIREES	\$1		\$1
		NORMALIZING ADJUSTMENT	\$0	\$7,271	\$7,271
81			\$453,005	\$7,271	\$460,276
80		Cash Working Capital	\$1,059,701		\$1,059,701
81	183	Deferred Charges	\$1,291,215	\$0	\$1,291,215
		Customer Deposits			
82	235	CUSTOMER DEPOSITS	(\$1,249,212)		(\$1,249,212)
83	235.001	ATHLETIC FIELD FEES	(\$1,590)		(\$1,590)
84	235.11	JPEC - GIFT CERTIFICATES	(\$245)		(\$245)
85			(\$1,251,047)	\$0	(\$1,251,047)
86		Deferred Credits	(\$193,534)	\$0	(\$193,534)
87		Total Rate Base	\$79,294,840	(\$503,612)	\$78,786,121

Table 2
JPEC Earned & Proposed Returns
On End-Of-Year Rate Base and Capitalization

Line No.		2006 As Booked	Normalized 2006 W/O Increase	Normalized 2006 With Increase
1	Net Margins	(\$107,540)	(\$840,021)	\$2,714,043
2	Non-Cash Patronage Dividends	\$0	\$0	\$0
3	Interest On Long-Term Debt	\$2,660,517	\$2,714,043	\$2,714,043
4		\$2,552,977	\$1,874,022	\$5,428,086
5	End-of-Year Rate Base	\$79,294,840	\$78,786,121	\$78,786,121
6	Rate of Return On Rate Base	3.22%	2.38%	6.89%
7	End-of-Year Capitalization	\$83,162,781	\$83,162,781	\$83,162,781
8	Rate of Return On Capitalization	3.07%	2.25%	6.53%
9	Net TIER Coverage Ratio	0.96	0.69	2.00
10	Modified Debt Service Coverage Ratio	1.23	1.21	1.96



Jackson Purchase Energy Corporation
Case No. 2007-00116
Calculation of 13-Month Averages of Various Accounts

	Materials & Supplies	Prepayments	Deferred Debits	Customer Deposits	Deferred Credits
December, 2005	2,191,946	428,072	1,489,863	987,371	156,569
January, 2006	1,564,049	399,188	1,483,438	992,396	159,744
February	1,167,171	326,059	1,451,244	1,003,152	166,521
March	1,206,223	291,994	1,451,470	1,021,316	165,738
April	1,280,655	442,949	1,430,795	1,036,107	171,013
May	1,341,463	415,246	1,416,663	1,040,697	163,948
June	1,242,251	434,898	1,397,770	1,179,282	169,942
July	1,223,818	370,445	1,389,027	1,205,490	168,894
August	1,154,522	297,082	1,364,703	1,211,233	219,820
September	1,230,265	259,146	1,342,986	1,224,505	216,826
October	1,270,213	491,403	1,320,188	1,242,554	216,517
November	1,209,823	453,005	1,312,576	1,247,414	338,871
December	1,183,096	406,755	1,291,418	1,251,047	193,534
Total	<u>17,265,495</u>	<u>5,016,242</u>	<u>18,142,141</u>	<u>14,642,564</u>	<u>2,507,937</u>
13-Month Average	<u>1,328,115</u>	<u>385,865</u>	<u>1,395,549</u>	<u>1,126,351</u>	<u>192,918</u>

Source: Monthly Form 7



Jackson Purchase Energy Corporation
Case No. 2007-00116
Rate Case Expenses
For Period Ending 1/11/2008

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41

<u>Date</u>	<u>Check Number</u>	<u>Payee</u>	<u>Amount</u>	<u>Description</u>
4/27/2007	156235	Denton & Keuler	\$ 682.50	Legal Services Rendered
5/4/2007	156362	Denton & Keuler	422.50	Legal Services Rendered
6/30/2007	156596	Denton & Keuler	162.50	Legal Services Rendered
10/19/2007	159145	Denton & Keuler	67.50	Legal Services Rendered
11/30/2007	159711	Denton & Keuler	2,828.75	Legal Services Rendered
12/31/2007	accrued	Denton & Kueler	18,161.08	Legal expenses
4/27/2007	156284	Federal Express	21.81	mail
10/26/2007	159374	Federal Express	27.49	mail
12/21/2007	159976	Fedex	55.64	Postage
5/4/2007	156354	Jackson Purchase Energy/ Petty Cash	13.35	mileage
12/7/2007	159782	Jackson Purchase Energy/ Petty Cash	14.56	mileage
5/18/2007	156523	Sam's Club	131.29	3" Binders for PSC Filing
12/14/2007	159875	Sam's Club	95.99	Binders for rate case
1/11/2008	160135	Sam's Club	95.99	Binders for rate case
4/6/2007	156026	Wilson Office Supply	47.95	Labels
4/6/2007	156026	Wilson Office Supply	251.86	Index Dividers
4/20/2007	156162	Wilson Office Supply	38.15	Ink Cartridge
5/4/2007	156353	Wilson Office Supply	9.53	Labels
5/4/2007	156353	Wilson Office Supply	60.69	Pressed Board Binders
12/28/2007	159985	Wilson Office Supply	105.79	Index Dividers
12/28/2007	159985	Wilson Office Supply	52.89	Index Dividers
12/21/2007	159968	Minuteman Press	1,294.39	16 copies for rate case
1/11/2008	160118	The Paducah Sun	2,435.67	Official notice for rate case
			<u>\$ 27,077.87</u>	

Check # 156235

Dated 4/27/07

2448

Date bill processed by JPEC 4/25/07

175727

W. DAVID DENTON

LEGAL FEES

For legal services rendered Jackson Purchase Energy Corporation for the period beginning March 1, 2007 and ending March 31, 2007

Faxes	\$2 00
Travel	0 00
Westlaw	0 00
Long Distance	1 20
Fed Express	0 00
	0 00
Services for 21 50 hours @ \$130 hour	2,795 00
TOTAL	\$2,798 20

Ref Acct No 4262-88M

*OK to pay
Colw*

PAID
APR 27 2007
JPEC

*928 000 / E452 715.00
923 000 / D452 1,400.70
186.200 682.50*

0448

Check # 156362 Dated 106062
75810

Date bill processed by JPEC 5/1/07

W. DAVID DENTON

LEGAL FEES

For legal services rendered Jackson Purchase Energy Corporation for the period beginning February 1, 2007 and ending February 28, 2007

Faxes	\$0 00
Travel	0 00
Westlaw	0 00
Long Distance	0 00
Fed Express	0 00
	0 00
Services for 10 50 hours @ \$130 hour	1,365 00
TOTAL	\$1,365 00

Ref Acct No 4262-88M

*OK to pay
CGW*

PAID
MAY 04 2007
JPEC

75810

*928.000 / Eφ52 520.00
923.000 / Dφ52 422.50
186.200 422.50*

0448

Check # 15 6546

Dated 6/30/07

5/25/07

76214

Date bill processed by JPEC 5/22/07

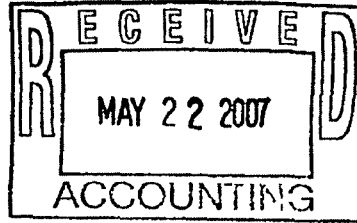


Exhibit 9
Page 4 of 24
Witness: Chuck Williamson

W. DAVID DENTON

LEGAL FEES

For legal services rendered Jackson Purchase Energy Corporation for the period beginning April 1, 2007 and ending April 30, 2007

Faxes	\$1 00
Travel	0 00
Westlaw	0 00
Long Distance	1 19
Fed Express	0 00
	0 00
Services for 24 50 hours @ \$130 hour	3,185 00
TOTAL	\$3,187 19

Ref Acct No 4262-88M

OK to pay
CD

928 000 / 2452 682.50
 923 000 / 2452 2,342 19
 186 200
 + 162 50
 = 3,187.19

PAID

MAY 25 2007

JPEC

0448

Check # 159145

Dated 10/19/07

079468

Date bill processed by JPEC 10/18/07

W. DAVID DENTON

LEGAL FEES

For legal services rendered Jackson Purchase Energy Corporation for the period beginning September 1, 2007 and ending September 30, 2007

Faxes	\$1 00
Copies	0 00
Postage	0 00
Services for 40 00 hours @ \$135 hour	5,400 00
TOTAL	\$5,401 00

Ref Acct No 4262-88M

OK to pay
 CW
 928 000 / D#52 742 50
 923 000 / D#52 4,591 00
 186 200 67 50

PAID
OCT 19 2007
JPEC

0448

Dated 11/30/07 Check # 159711

80248

Date bill processed by JPEC 11/16/07

W. DAVID DENTON

LEGAL FEES

For legal services rendered Jackson Purchase Energy Corporation for the period beginning October 1, 2007 and ending October 31, 2007:

Lexis/Nexis	\$15.44
Loan Filing Fee	20.00
Mileage	114.81
Lien Searches	287.50
Ky State Treas – Article of Inc (for Rate Case)	27.50
Copies	57.75
Postage	57.13
Services for 58.75 hours @ \$135 hour	7,931.25
TOTAL	\$8,511.38

Ref. Acct. No. 4262-88M

PAID
NOV 30 2007
JPEC

OK to pay
(CW)

928.000 / D₅₂ 825.44
 923.000 / D₅₂ 4,857.19
 186.200 2,828.75

0498

Check # 160267 Dated 1/25/08

1/25/08

Date bill processed by JPEC 1/23/08

81257

Exhibit 9
Page 7 of 24
Witness: Chuck Williamson

PAID
JAN 25 2008
JPEC

W. DAVID DENTON

LEGAL FEES

For legal services rendered Jackson Purchase Energy Corporation for the period beginning November 1, 2007 and ending December 31, 2007:

Recording Fees	\$0.00
Ky State Fees	35.00
Mileage	238.52
Faxes	11.00
Fed-Ex	0.00
Copies	544.10
Postage	18.71
Services (128.25 hours @ \$135/hour)	17,313.75
TOTAL	\$18,161.08

Ref. Acct. No. 4262-88M

ACCRUED
232.100

~~du to pay
Ac 186.200
CWN~~



Invoice Number 8-808-27121	Invoice Date Apr 18, 2007	Account Number 1911-9121-8
--------------------------------------	-------------------------------------	--------------------------------------

FedEx Express Shipment Detail By Payor Type (Original)

Dropped off: Apr 11, 2007

Payor: Shipper

- Fuel Surcharge FedEx has applied a fuel surcharge of 10.00% to this shipment.
- Distance Based Pricing Zone 3
- FedEx has audited this shipment for correct packages weight, and service Any changes made are reflected in the invoice amount.

Cust. Ref. NO REFERENCE INFORMATION

Ref. #3:

Ref. #2:

Exhibit 9
Page 8 of 24
Witness: Chuck Williamson

INET		Sender		Recipient	
Tracking ID	791274405780	Tracy Bensley		Beth O Donnell	
Service Type	FedEx 2Day	JACKSON PURCHASE ENERGY CORP		KENTUCKY PUBLIC SERVICE COMMIS	
Package Type	FedEx Box	2900 IRVIN COBB DRIVE		211 Sower Blvd	
Zone	03	PADUCAH KY 42003 US		FRANKFORT KY 40602 US	
Packages	1				
Rated Weight	6.0 lbs 2.7 kgs	Transportation Charge			10.80
Delivered	Apr 12 2007 10:04	Discount			3.46
Svc Area	A2	Fuel Surcharge			0.87
Signed by	F BROWNING	Delivery Area Surcharge Commercial			1.40
FedEx Use	000000000/0006002/_	Total Charge		USD	\$9.61

Dropped off: Apr 13, 2007

Payor: Shipper

- Fuel Surcharge FedEx has applied a fuel surcharge of 10.00% to this shipment.
- Distance Based Pricing Zone 4

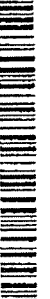
Cust. Ref. NO REFERENCE INFORMATION

Ref. #3:

Ref. #2:

INET		Sender		Recipient	
Tracking ID	791276198061	Tracy Bensley		Bill Dorsett	
Service Type	FedEx Standard Overnight	JACKSON PURCHASE ENERGY CORP		Booth & Associates Inc	
Package Type	FedEx Envelope	2900 IRVIN COBB DRIVE		1011 Schaub Drive	
Zone	04	PADUCAH KY 42003 US		RALEIGH NC 27606 US	
Packages	1				
Rated Weight	N/A	Transportation Charge			16.80
Delivered	Apr 16 2007 11:30	Fuel Surcharge			1.11
Svc Area	A1	Discount			5.71
Signed by	J WATSON	Total Charge		USD	\$12.20
FedEx Use	000000000/0000222/_				

Shipper Subtotal	USD	\$21.81
Total FedEx Express	USD	\$21.81



Check # 156374

DATED 10/26/07



Invoice Number 2-308-09132	Invoice Date Oct 10, 2007	Account Number 1911-9121-8	Page 4 of 4
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FedEx Express Shipment Detail By Payor Type (Original)

Picked up: Oct 03, 2007

Cust Ref. NO REFERENCE INFORMATION

Ref.#2:

Exhibit 9

Payor: Shipper

Ref.#3:

Page 9 of 24

Witness: Chuck Williamson

- Fuel Surcharge FedEx has applied a fuel surcharge of 14.00% to this shipment
- Distance Based Pricing Zone 3
- Package Delivered to Recipient Address Release Authorized

Automation	INET	Sender	Recipient	
Tracking ID	799727589009	Chuck Wilhamson	Alan Zumstain	
Service Type	FedEx Standard Overnight	Jackson Purchase Energy Corp	1032 Chetford Drive	
Package Type	FedEx Box	2900 Irvin Cobb Drive	LEXINGTON KY 40509 US	
Zone	03	PADUCAH KY 42003 US		
Packages	1			
Rated Weight	8 0 lbs 3 6 kgs	Transportation Charge		27 55
Delivered	Oct 04 2007 11 39	Discount		9 64
Svc Area	AA	Fuel Surcharge		3 38
Signed by	999999999999999	Courier Pickup Charge		4 00
FedEx Use	00000000/0001305/02	Residential Delivery		2 20
		Total Charge	USD	\$27 49
			Shipper Subtotal	USD \$27 49
			Total FedEx Express	USD \$27 49

OK to pay
CW

Patricia

Check# 154716

Dated 12/21/07



Invoice Number 2-422-06875	Invoice Date Dec 13, 2007	Account Number 1911-9121-8	Page 4 of 4
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FedEx Express Shipment Detail By Payor Type (Original)

Dropped off: Dec 04, 2007 **Cust. Ref.:** NO REFERENCE INFORMATION **Ref.#2:**
Payor: Shipper **Ref.#3:**

- Fuel Surcharge - FedEx has applied a fuel surcharge of 17.50% to this shipment.
- Distance Based Pricing, Zone 5

Automation	INET	Sender	Recipient	
Tracking ID	799762423633	Izell White	Donette Wester	
Service Type	FedEx Priority Overnight	JACKSON PURCHASE ENERGY CORP	NRECA	
Package Type	FedEx Envelope	2900 IRVIN COBB DRIVE	4301 Wilson Blvd #IFS7-333	
Zone	05	PADUCAH KY 42003 US	ARLINGTON VA 22203 US	
Packages	1			
Rated Weight	N/A			
Delivered	Dec 05, 2007 09:14	Transportation Charge		19.50
Svc Area	A2	Discount		-7.61
Signed by	W.FERGUSON	Fuel Surcharge		2.08
FedEx Use	000000000/0000219/_	Total Charge	USD	\$13.97

*HO13
926.200
Izellwhite*

Dropped off: Dec 06, 2007 **Cust. Ref.:** NO REFERENCE INFORMATION **Ref.#2:**
Payor: Shipper **Ref.#3:**

- Fuel Surcharge - FedEx has applied a fuel surcharge of 17.50% to this shipment.
- Distance Based Pricing, Zone 5

Automation	INET	Sender	Recipient	
Tracking ID	799763989692	Chuck Williamson	William Edwards	
Service Type	FedEx Standard Overnight	JACKSON PURCHASE ENERGY CORP	Rural Utilities Coop Finance C	
Package Type	Customer Packaging	2900 IRVIN COBB DRIVE	2201 COOPERATIVE WAY	
Zone	05	PADUCAH KY 42003 US	HERNDON VA 20171 US	
Packages	1			
Rated Weight	17.0 lbs, 7.7 kgs			
Delivered	Dec 07, 2007 09:08	Transportation Charge		72.85
Svc Area	A1	Discount		-25.50
Signed by	S.PENCE	Fuel Surcharge		8.29
FedEx Use	000000000/0001349/_	Total Charge	USD	\$55.64

Shipper Subtotal	USD	\$69.61
Total FedEx Express	USD	\$69.61

Mileage to Sam's for books for
Rate case. *Slowing*

One-way $9 \cdot x$
12/03/07 $0 \cdot 485 =$
 $4 \cdot 37^*$

Round trip $21 \cdot x$
12/29/07 $0 \cdot 485 =$
 $10 \cdot 19^*$

$4 \cdot 37 +$
 $10 \cdot 19 +$
 $14 \cdot 56^*$

OK
(CW)

186.200

NO. _____ AMOUNT \$ 14.56

RECEIVED OF PETTY CASH

FOR Mileage to Sam's for
rate case supplies

DATE 11/29/07

CHARGE TO 186.200 ACCOUNT _____

R. Rowing
APPROVED BY

Sonia Collier
RECEIVED BY

12. x
0.445 =
5.34**

03/21/07

Trip to Wal-Mart & to
Wilson Office Supply for
cartridge for RUS.

Sonja Collier

186.200

OK to Pay (CW)

Petty Cash

3/26/07

Mileage to Wal-Mart
& Wilson Off. for
RUS for PSC case 186.200 5.3

Sonja Collier

Petty Cash

4-23-07

Mileage for Binders
for PSC Case 186.200 8.0

L. Roulers
Sonja Collier

04/23/07

18. x
0.445 =
8.01** 186.200

Sonja Collier

mileage - Binders for PSC Case.

OK
CW

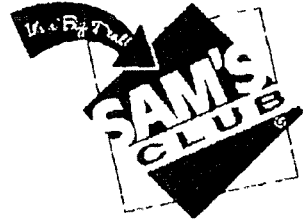
2815

Check # 156523 Dated 5/18/07 175982

5/18/07

Exhibit 9
Page 13 of 24
Witness: Chuck Williamson

Our Business Is Saving
Your Business Money™



SAM'S CLUB
CLUB MANAGER S NUSSBAUMER
(270) 444 - 6500
Fax and Pull # (270)444-6608
PADUCAH, KY

04/23/07 10-03-8465-6449-004 1371

W MEMBER 101-30094834819

THANK YOU,
JACKSON PURCHASE ENERGY CORP

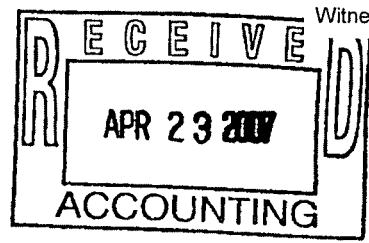
79346 3" BINDER	11 26 T
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79346 3" BINDER	11 26 T
79346 3" BINDER	11 26 T
79346 3" BINDER	11 26 T
93350 CB311BN	42 35 T
111314 ENR AA-32	12 48 T
111314 ENR AA-32	12 48 T
SUBTOTAL	91 17
TAX 1 6 000 %	11 47
TOTAL	202 64
SAMS B CREDIT	202 64
ACCOUNT #4819	
APPROVAL #	
CHANGE DUE	000796 0 00

ITEMS SOLD 14

TC# 8268 9907 4739 5144 0408 4

Business Members Join us for National
Small Business Week, April 25, 7-10 AM
04/23/07 10 05 31

*** MEMBER COPY ***



Date 04/23/07
Inv # 008465
\$20264

Check
#156523

OFFICE SUPPLIES		
921 100	G004	4 10
921 000	H004	4 10
588 100	O004	4 10
588 100	S004	1 89
921 000	F004	4 09
588 100	E004	4 09
903 000	M004	4 09
186 200		131 29
143 300		44 89
TOTAL		202 64

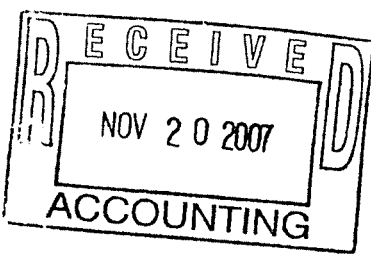
(143 300 - 44 89
Colleen Chatman)
(Rate Case Binders)

on to pay

PAID
MAY 18 2007
JPEC

2815

Check # 159875 12/14/07



80559



SAM'S CLUB
CLUB MANAGER S NUSSBAUMER
(270) 444 - 6500
Fax and Pull # (270)444-6608
PADUCAH, KY
11/13/07 15:33 4944 6449 001 1322
W MEMBER 101-3009483481

Date 11/13/07
Inv. # 004944
\$ 248.32

THANK YOU,
SONJA COLLIER

61851	POST-IT 3X3	15.57	T
210588	POST-ITS	8.12	T
40516	16 MEMORY	19.81	T
111314	ENR AA-32	12.48	T
767936	ENR AA/AAA	17.48	T
111314	ENR AA-32	12.48	T
657820	JUMBO CLIP	4.16	T
657820	JUMBO CLIP	4.16	T
657820	JUMBO CLIP	4.16	T
79346	3" BINDER	11.32	T
79346	3" BINDER	11.32	T
79346	3" BINDER	11.32	T
79346	3" BINDER	11.32	T
79346	3" BINDER	11.32	T
79346	3" BINDER	11.32	T
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79346	3" BINDER	11.32	T
79346	3" BINDER	11.32	T
79346	3" BINDER	11.32	T
	SUBTOTAL	234.26	
	TAX 1 6.000 %	14.06	
	TOTAL	248.32	
	SAMS B CREDIT	248.32	
		4819	
ACCOUNT #		001046	
APPROVAL #		0.00	
	CHANGE DUE	0.00	

— Rodney

Rate case

OFFICE SUPPLIES		
921.100	G004	20.32
921.000	H004	20.32
588.100	O004	20.32
588.100	S004	9.38
921.000	F004	20.33
588.100	E004	20.33
903.000	M004	20.33
186.200		95.99
143.300	Rodney Nichols	21.00
TOTAL		248.32

ITEMS SOLD 21

You have declined a pre-approved offer for a SAM'S CLUB Personal Credit Account. The offer you received today will remain valid until 11/13/07. Please visit the membership desk to accept this offer.
Finder File Number 000000000000
TC# 2191 1614 8016 8921 0457 1

PAID
DEC 14 2007
JPEC



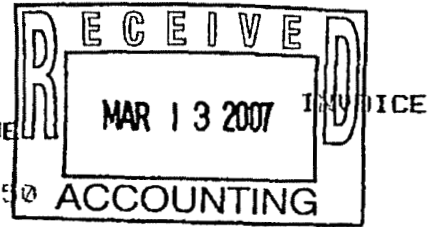
Join us November 16, 17 & 18 for the Holiday Taste of Sam's Club!
11/13/07 15:35:33

*** MEMBER COPY ***

0168 Dated 4/6/07 Check #156026

74989 4/6/7

WILSON OFFICE SUPPLY
P.O. BOX 1824 - 1625 KENTUCKY AVENUE
PADUCAH, KY 42003
TEL: (270) 442-3611 FAX: (270) 442-6950



DATE OF INVOICE . 03/1E/07

PAGE 1

SOLD TO 10141
JACKSON PURCHASE ENERGY

SHIP TO
JACKSON PURCHASE ENERGY

P.O. BOX 4030
PADUCAH KY 42002

INVOICE NO 79980-01
REF/PO# F-1664

2900 IRVIN COBB DRIVE
PADUCAH KY 42003

FAX (270)442-5337 PHONE (270)442-7321

PART NUMBER	ITEM DESCRIPTION	QTY UN	QTY SHIP	QTY TO FOLLOW	YOUR PRICE	EXTENDED PRICE
UN 056E0	Who Cal'ed Sonja Collier AVE LABEL, LSR, 2-3/4X1, CL, 1500	1	1	1	45.235	45.24
	07-12-03 Phone 441-0808 Ext					

INVOICE AGREES WITH P.O.

PAID
APR 06 2007
JPEC

186 200

RECEIVED BY: Gregy S...

SUB-TOTAL	45.24
TAX	2.71
TOTAL	47.95

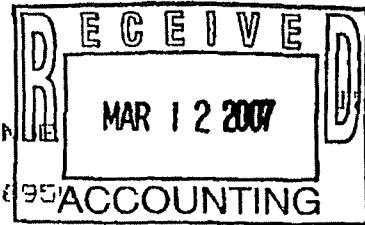
** PLEASE PAY FROM THIS INVOICE **

0168

Check # 156025 dated 4/6/07

4/6/7

WILSON OFFICE SUPPLY
P.O. BOX 1824 - 1625 KENTUCKY AVENUE
PADUCAH, KY 42003
TEL: (270) 443-3611 FAX: (270) 442-0950



VOICE

DATE OF INVOICE 03/09/07

PAGE 1

SOLD TO 10141
JACKSON PURCHASE ENERGY

P.O. BOX 4030
PADUCAH KY 42002

INVOICE NO 79917-01
REF/PO# F-1663

SHIP TO. 74990
JACKSON PURCHASE ENERGY
2900 IRVIN COBB DRIVE
PADUCAH KY 42003

FAX (270) 442-5337 PHONE (270) 442-7321

---PART---	---	ITEM-----	---	QTY-	QTY-	QTY TO	---	EXTENDED
NUMBER---	---	DESCRIPTION	---	UN ORDER	SHIP	FOLLOW	YOUR---	PRICE
UN 60118		Who Called Sonja Collier CRD INDEX, 11X8 5, 1-31, HI	ST	20	20		6 890	137 80
UN 60218		CRD INDEX, 11X8 5, A-Z, HI	ST	20	20		4 990	99 80
UN 73900		AVE PROTCT, SHT, VNYL, TOPLD, CL	BX	3	3		17 990	53 97
UN 77240		PIL REFILL, 6-2, FN, BK	PK	18	18		1 990	35 82
BR80C		NUK RBN, PRNT, NYL, "C" WIND, BK/RD	EA	12	12		2 390	28 68

08 23 39
Phone: 441-0008 Ext.

INVOICE AGREES
WITH P.O.

PAID
APR 06 2007
JPEC

OFFICE SUPPLIES		
921 100	G004	10 58
921 000	H004	10 58
588 100	O004	10 58
588 100	S004	4 89
921 000	F004	10 58
588 100	E004	10 58
903 000	M004	67 78
186 200		251 86
TOTAL		377 43

RECEIVED BY

Greg Sanders

SUB-TOTAL 356 07
TAX 21 36
TOTAL 377.43

** PLEASE PAY FROM THIS INVOICE **

Exhibit 9
Page 17 of 24
Witness: Chuck Williamson

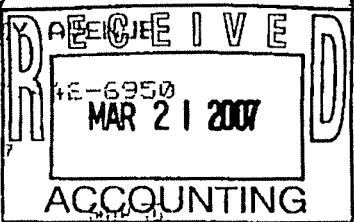
0168
4/20/07

Check# 156162

4/20/07
75171

WILSON OFFICE SUPPLY
P.O. BOX 1824 - 1625 KENTUCKY
PADUCAH, KY 42003
TEL. (270) 443-3611 FAX (270) 442-7321

INVOICE#
80431-0



DATE OF INVOICE 03/21/07

PAGE 1

SOLD TO. 10141
JACKSON PURCHASE ENERGY

P O BOX 4030
PADUCAH KY 42002

PO/Ref# PSC
PSC

JACKSON PURCHASE ENERGY

2900 IRVIN COBB DRIVE
PADUCAH KY 42003

FAX (270)442-5337 PHONE (270)442-7321

PART NUMBER	ITEM DESCRIPTION	UN	QTY ORDER	QTY SHIP	QTY TO FOLLOW	YOUR PRICE	EXTENDED PRICE
0662BAN	HEW CRTDG, INKJT, #19, DJ350C, BK	EA	1	1		35.99	35.99

OK to pay

PAID
APR 20 2007
JPEC

186200

PAYMENT TERMS DUE UPON RECEIPT

RECEIVED BY: Sonja Collier

SUB-TOTAL	35.99
TAX	2.16
TOTAL	38.15

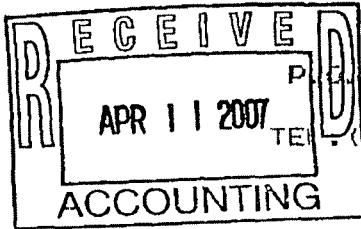
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** PLEASE PAY FROM THIS INVOICE ***** **

0168

Check #156353

Dated 5/4/07

75618 5/4/7



WILSON OFFICE SUPPLY
 BOX 1824 - 1625 KENTUCKY AVENUE
 PADUCAH, KY 42003
 TEL: (270) 443-3611 FAX: (270) 442-6950

INVOICE#
81290-0

DATE OF INVOICE 04/10/07

PAGE. 1

SOLD TO 10141
JACKSON PURCHASE ENERGY

SHIP TO
JACKSON PURCHASE ENERGY

P O BOX 4030
PADUCAH KY 42002

PO/Ref# E-2991
E-2991

2900 IRVIN COBB DRIVE
PADUCAH KY 42003

FAX (270)442-5337 PHONE (270)442-7321

PART NUMBER	ITEM DESCRIPTION	UN ORDER	QTY	SHIP	FOLLOW	YOUR PRICE	EXTENDED PRICE
UN 5262	Need ASAP - PLEASE!!!! Who Called Sonja Collier AVE LABEL,LSR,ADD,1-1/3X4,WE350	PK	1	1		8.99	8.99

15:30.17
Phone 441-0008 Ext.

INVOICE AGREES
WITH P.O.

186 200

PAID
MAY 04 2007
JPEC

RECEIVED BY [Signature]

SUB-TOTAL	8.99
TAX	.54
TOTAL	9.53

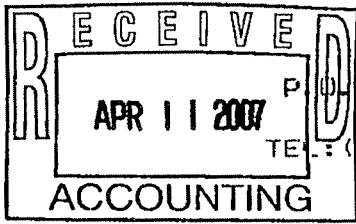
=====
** PLEASE PAY FROM THIS INVOICE!!!! **

0168

Check # 10000 used 014107

5/4/7

75619



WILSON OFFICE SUPPLY
 BOX 1824 - 1625 KENTUCKY AVENUE
 PADUCAH, KY 42003
 TEL: (270) 443-3611 FAX: (270) 442-6950

INVOICE#
81261-0

DATE OF INVOICE • 04/10/07

PAGE 1

SOLD TO 10141
JACKSON PURCHASE ENERGY

SHIP TO
JACKSON PURCHASE ENERGY

P O BOX 4030
PADUCAH KY 42002

PO/Ref# E-2991
E-2991

2900 IRVIN COBB DRIVE
PADUCAH KY 42003

FAX (270)442-5337 PHONE (270)442-7321

---PART---	---ITEM---	---QTY---	---QTY---	QTY TO	---YOUR---	EXTENDED
---NUMBER---	DESCRIPTION	UN ORDER	SHIP	FOLLOW	---PRICE---	---PRICE---
UN 25971	ACC CVR, PSBD, CLTHBND, 11X8.5, BK	EA	25	25	2.290	57.25

Need ASAP - PLEASE!!

Who Called Sonja Collier

10 27.36

Phone 441-0808 Ext

NEED IN AM
EARLY

186 200

INVOICE AGREES
WITH P.O.

PAID

MAY 04 2007

JPEC

RECEIVED BY:

SUB-TOTAL 57.25
 TAX 3.44
 TOTAL 60.69

== ** PLEASE PAY FROM THIS INVOICE ** ==

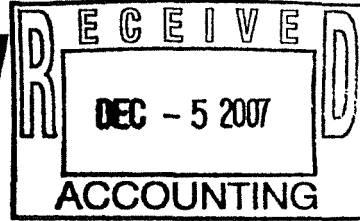
Exhibit 9
Page 20 of 24
Witness: Chuck Williamson

Check # 159985 DATED 105.79

80479 12/28/07

0168

WILSON
office supply **OE** office plus



INVOICE: 91368-0
CUSTOMER #: 10141-
INVOICE DATE: 12/04/07

SOLD TO: 270-442-7321
JACKSON PURCHASE ENERGY

SHIP TO:
JACKSON PURCHASE ENERGY

P.O. BOX 4030
PADUCAH KY 42002

2900 IRVIN COBB DRIVE
PADUCAH KY 42003

Special Instructions _____ Purchase Order Number _____

5496

Salesperson _____ Ord Date _____ Inv Date _____ Terms _____ OE# _____

CHIP GRIFFIN 12/04/07 12/04/07 107

Product Number # Ord # Shp # B/O Description Unit Price Extension

UN CRD60218	20	20	INDEX.11X8 5.A-Z.MI	ST	4.990	99.80
**Attention :SONJA COLLIER Who Called : Sonja Collier 08:25:34 Phone: 441-0808 Ext:						

PAID
DEC 28 2007
JPEC

**INVOICE AGREES
WITH P.O.**

Subtotal	Delivery	Tax	Tot
99.80	.00	5.99	105.79

INVOICE: 91368-0
TOTAL AMOUNT DUE: 105.79

Please remit payment to:

WILSON OFFICE SUPPLY
1625 KENTUCKY AVENUE
PADUCAH KY 42003

JACKSON PURCHASE ENERGY
Customer # 10141 -
P:270 442-7321 F:270-442-5337

0168

Check # 159985 Dated 12/28/07

80480 12/28/07

WILSON
office supply 

RECEIVED
DEC 2007
JUN

INVOICE: 91324-0
CUSTOMER #: 10141-
INVOICE DATE: 12/03/07

RECEIVED
DEC - 4 2007
ACCOUNTING

SOLD TO: 270-442-7321
JACKSON PURCHASE ENERGY

SHIP TO:
JACKSON PURCHASE ENERGY

P.O. BOX 4030
PADUCAH KY 42002

2900 IRVIN COBB DRIVE
PADUCAH KY 42003

Special Instructions

Purchase Order Number

5495

Salesperson

Ord Date

Inv Date

Terms

OE#

CHIP GRIFFIN

12/03/07

12/03/07

107

Product Number	#	Ord #	Shp #	B/O	Description	Unit	Price	Extension
----------------	---	-------	-------	-----	-------------	------	-------	-----------

UN CRD60218	10	10			INDEX. 11X8.5.A-Z.MI 14:07:00 Phone: 441-0808 Ext:	ST	4.990	49.90
-------------	----	----	--	--	--	----	-------	-------

**Attention :SONJA COLLIER
Who Called : Sonja Collier

PAID
DEC 28 2007
JPEC

**INVOICE AGREES
WITH P.O.**

Subtotal	Delivery	Tax	Tot
49.90	.00	2.99	52.89

INVOICE: 91324-0

TOTAL AMOUNT DUE: ~~52.89~~

186.200

Please remit payment to:

WILSON OFFICE SUPPLY
1625 KENTUCKY AVENUE
PADUCAH KY 42003

JACKSON PURCHASE ENERGY
Customer # 10141 -
P:270 442-7321 F:270-442-5337

Check# 159968 Dated 12/21/07

Lebell

INVOICE FOR

12/21



PRINTING "FOR THE JOB YOU NEEDED YESTERDAY"

MINUTEMAN PRESS

616 Broadway Paducah, KY 42001-0734
Serving the Paducah Area for Over 22 Years

Pay

80457

Invoice Number: 19370
Invoice Date: 12/03/2007

Denton & Keuler
P.O. Box 929
Paducah, Kentucky 42002-0929

Attn: Jan

Phone: 443-8253
Fax: 442-6000
Salesperson: Pam

PAID
DEC 21 2007
JPEC

16 copies of 4 pages of JPEC (Order #27705)	Color	57.60
16 copies of 909 pages of JPEC (Order #27706)	1163.52
Order Total		\$ 1221.12
Sales Tax Tax	73.27	
Total Tax		73.27
Balance Due		\$ 1294.39

186.200
OK to Pay
CW

Exhibit 9
Page 23 of 24
Witness: Chuck Williamson

Terms: .
Please pay from this invoice. No statements will be sent.
1.50% interest per month on past-due invoices.

Thank You!!



MINUTEMAN PRESS

"Printing For The Job You Needed Yeasterday"

paducah.minutemanpress.com (270) 442-3253 Fax: (270) 443-9103 j.burns@minutemanpress.com

0122

Check # 160118

Dated 1/11/08

809777 1-11-08

The Paducah Sun / Sun Publishing
408 Kentucky Avenue
PO Box 2300
Paducah, KY 42002-2300
Phone: 270-575-8700

ADVERTISING INVOICE/STATEMENT

186

Billing Period	Terms of payment
12/03/07 - 12/30/07	15 Days

Billed Account #	RECEIVED JAN - 8 2008 ACCOL T G
ATTN JOHN PACE DENTON AND KEULER PO BOX 929 PADUCAH, KY 42002	

Billed Account #	Agency/Client
03102966-000	
Name of Advertiser/Client	
DENTON AND KEULER	

Date	Reference #	Charges or Credits Description/Product Code	Ins	SAU Dimensions	Billed Units	Rate	Amount	Total
12/15/07	02609984-001	20 - Official Notice Jackson	3		291 ln	2.79	2435.67	2435.67
<p>Pay directly to Paducah Sun</p> <p>PAID JAN 11 2008 JPEC</p> <p>186-200 Ok to pay COW</p> <p>Please give them (Paducah Sun) a copy of the invoice so they will know the check is for the DK account. Thanks, Chuck</p>								

Current	AGING			
	31-60 Days	61-90 Days	91-120 Days	Over 120
2435.67	0.00	0.00	0.00	0.00

Total Net Amount Due
2435.67

Please Return This Portion With Your Remittance

If you desire to charge this amount to your credit card, please complete the following information and return to the address above: [] VISA [] Mastercard

Acct# _____ Exp Date _____

Signature _____

Billed Account #
03102966-000

Billed Account Name
ATTN JOHN PACE DENTON AND KEULER

Amount Remitted

THANK YOU FOR YOUR BUSINESS

Remit To
The Paducah Sun / Sun Publishing 408 Kentucky Avenue PO Box 2300 Paducah, KY 42002-2300

OUR TERMS ARE NET 15 DAYS

REMITTANCE ADVICE



JPEC
Response to Question No. 21 in the Second Data Request
End of Test Year Customer Adjustment

Line No.	Month	Residential	Small Com (1 ph)	Small Com (3 ph)	Lg Com (Existing)	Comm & Industrial	
1	Dec 2005	25,317	2,004	172	2	690	
2	Jan 2006	25,322	2,027	177	2	739	
3	Feb 2006	25,354	2,023	175	2	739	
4	Mar 2006	25,391	2,030	176	2	739	
5	Apr 2006	25,425	1,987	176	2	739	
6	May 2006	25,427	2,007	177	2	739	
7	Jun 2006	25,467	2,007	177	2	740	
8	Jul 2006	25,501	2,006	177	2	740	
9	Aug 2006	25,538	2,018	182	2	740	
10	Sep 2006	25,501	2,028	180	2	740	
11	Oct 2006	25,540	2,046	181	2	740	
12	Nov 2006	25,513	2,040	182	2	740	
13	Dec 2006	25,556	2,034	176	2	740	
14	Average	25,450	2,020	178	2	736	
15	Increase	133	16	6	0	46	
16	Total Revenue	\$24,247,477	\$1,688,015	\$309,099	\$1,725,798	\$9,354,175	
17	KWH Usage	379,714,788	25,347,920	4,860,579	40,619,100	178,774,164	
18	Avg per KWH	\$0.06386	\$0.06659	\$0.06359	\$0.04249	\$0.05232	
19	Total Billings	305,532	24,252	2,136	24	8,808	
20	Avg Monthly						
21	KWH Usage	1,243	1,045	2,276	1,692,463	20,297	
22	Increase in customers, times average use, times average rate, times 12 months, equals additional revenues						
23	Increase in Rev	\$126,807	\$13,171	\$9,618	\$0	\$583,288	\$732,884
24	Increase in consumers, times average use, times average cost per KWH purchased, times 12 months,						
25	equals additional power cost						
26	Inc in Power Cost	\$73,143	\$7,285	\$5,570	\$0	\$410,598	\$496,596
27	Net Increase						\$236,288
28	Total Cost of power, base rates		\$24,454,934				
29	KWH purchased		663,944,351				
30	Cost per KWH Purchased		\$0.03683				



COMPARISON OF RATES
JPEC
Cost of Service Study for the Twelve Months Ended December 31, 2006

RESIDENTIAL

Line	Billing Determinants	Billing		Actual		Proposed	
		Determinant	Rate	Revenues	Rate	Revenues	
1	Customer Charge	25,461	\$7.00	\$2,138,724	\$9.00	\$2,749,788	
2	Demand Charge						
3	Energy Charge	379,714,788	\$0.05729	\$21,753,860	\$0.06252	\$23,739,769	
4	Billing Adj/Minimums						
5	Total From Base Rates			\$23,892,584		\$26,489,557	
6	Discount Adjustment						
7	Total Revenues			\$23,892,584		\$26,489,557	
8	Amount					\$2,596,972	
9	Percent					10.87%	

COMPARISON OF RATES
JPEC
Cost of Service Study for the Twelve Months Ended December 31, 2006

SMALL COMMERCIAL SINGLE PHASE

Line	Billing Determinants	Billing		Actual		Proposed	
		Determinant	Rate	Revenues	Rate	Revenues	Revenues
1	Customer Charge	2,021	\$7.00	\$169,764	\$10.00	\$242,520	
2	Demand Charge						
3	Energy Charge	25,347,920	\$0.05883	\$1,491,218	\$0.06365	\$1,613,395	
4	Billing Adj/Minimums						
5	Total From Base Rates			\$1,660,982		\$1,855,915	
6	Discount Adjustment						
7	Total Revenues			\$1,660,982		\$1,855,915	
8	Amount					\$194,933	
9	Percent					11.74%	

COMPARISON OF RATES
JPEC
Cost of Service Study for the Twelve Months Ended December 31, 2006

SMALL COMMERCIAL THREE PHASE

Line	Billing Determinants	Billing Determinant	Actual		Proposed	
			Rate	Revenues	Rate	Revenues
1	Customer Charge	178	\$15.00	\$32,040	\$18.00	\$38,448
2	Demand Charge					
3	Energy Charge	4,860,579	\$0.05583	\$271,366	\$0.05980	\$290,663
4	Billing Adj./Minimums					
5	Total From Base Rates			\$303,406		\$329,111
6	Discount Adjustment					
7	Total Revenues			\$303,406		\$329,111
8	Amount					\$25,704
9	Percent					8.47%

COMPARISON OF RATES
JPEC
Cost of Service Study for the Twelve Months Ended December 31, 2006

LARGE COMMERCIAL - EXISTING

Line	Billing Determinants	Billing Determinant	Actual		Proposed	
			Rate	Revenues	Rate	Revenues
1	Customer Charge	2	\$0.00	\$0	\$300.00	\$7,200
2	Demand Charge	8,541				
3	First 3,000 KW		\$10.48	\$754,560	\$11.50	\$828,000
4	Remaining KW		\$10.48	\$319,577	\$11.50	\$350,681
5	Energy Charge	40,619,100	\$0.01545	\$627,646	\$0.01735	\$704,741
6	Billing Adj/Minimums					
7	Total From Base Rates			\$1,701,783		\$1,890,622
8	Discount Adjustment					
9	Total Revenues			\$1,701,783		\$1,890,622
10	Amount					\$188,839
11	Percent					11.10%

COMPARISON OF RATES

JPEC

Cost of Service Study for the Twelve Months Ended December 31, 2006

OUTDOOR LIGHTING

Line	Billing Determinants	Billing Determinant	Actual Rate*	Actual Revenues	Proposed Rate	Proposed Revenues
3	Street Lights	290	\$6.72	\$23,375	\$7.53	\$26,204
4	175 MV St Lt (contract)					
5	400 MV St Lt (contract)	33	\$9.79	\$3,877	\$11.22	\$4,443
6	100 W HPS St Lt (contract)	61	\$15.43	\$11,296	\$7.53	\$5,512
7	Energy					
8	Security Lights					
9	175 W MV	5,455	\$6.73	\$440,546	\$7.53	\$492,914
10	100 W HPS	1,239	\$6.73	\$100,062	\$7.53	\$111,956
11	250 W HPS Flood	247	\$9.43	\$27,951	\$10.56	\$31,300
12	250 W HPS	357	\$8.93	\$38,256	\$10.00	\$42,840
13	175 W Metal Halide	42	\$11.32	\$5,705	\$12.67	\$6,386
14	400 W Metal Halide	76	\$15.91	\$14,510	\$17.82	\$16,252
15	400 W MV	1,324	\$10.02	\$159,198	\$11.22	\$178,263
16	1000 W Metal Halide	144	\$22.36	\$38,638	\$25.04	\$43,269
17	* NOTE: The existing rates for the Street Lights are contract rates. The rates listed in the "Actual" column are not the actual rates. Instead, they are the average rate that was calculated by dividing the annual revenue by the number of lights and then dividing by 12 months.					

Cost of Service Study for the Twelve Months Ended December 31, 2006
 JPEC
 SMALL COMMERCIAL SINGLE PHASE

OUTDOOR LIGHTING

Line	Billing Determinants	Billing Determinant		Actual		Proposed	
		Rate	Revenues	Rate	Revenues	Rate	Revenues
4	Billing Adj/Minimums						
5	Total From Base Rates		\$863,414		\$863,414		\$959,339
6	Discount Adjustment						
7	Total Revenues				\$863,414		\$959,339
8	Amount						\$95,926
9	Percent						11.11%





Minimum Size Determination - Transformers (continued)

Line	Account	CPR Cost	No. Number	Description	(as Dec 31, 2006)	Quantity	Unit Cost
28	368,982		225	KVA PDMT	\$126,746.80	28	\$4,526.671
29	368,983		250	KVA PDMT	\$10,404.48	3	\$3,468.160
30	368,984		300	KVA PDMT	\$215,533.67	44	\$4,898.493
31	368,985		500	KVA PDMT	\$200,624.30	33	\$6,079.524
32	368,986		750	KVA PDMT	\$230,769.93	27	\$8,547.034
33	368,987		1000	KVA PDMT	\$43,869.90	5	\$8,773.980
34	368,988		1500	KVA PDMT	\$66,901.90	5	\$13,380.380
35				TOTAL	\$13,179,085.90	20,037	

OVERALL MINIMUM SIZE ALLOCATION FACTOR

Used to allocate Distribution Plant Dollars to the Consumer Function

line	Acct No.	Description	Percent
36	364	Poles, Towers, Fixtures	24.14%
37	365	Overhead Conductor	86.67%
38	366	Underground Conduit	63.59%
39	367	Underground Conductor	22.78%
40	368	Transformers	52.11%
41		Consumer Allocation Factor	49.86%

DISTRIBUTION PLANT - PRIMARY LINE AND SECONDARY LINE ALLOCATION FACTORS

Line	No.	Description	Miles	Percent of Total	Allocation Factor
42		Miles of Primary Distribution Line	2,064	72.30%	72.30%
43		Miles of Secondary Distribution Line	791	27.70%	27.70%
44		TOTAL	2,855		

ACCUMULATED DEPRECIATION - DISTRIBUTION PLANT-RELATED

(Page 5, Line 12 of Cost of Service Study)

Line	Account	No.	Description	As of 12/31/05	As of 12/31/06	Average
1	108.662		Station Equipment	\$1,164,968	\$1,264,923	\$1,214,946
2	108.664		Poles Towers, Fixtures	\$9,860,117	\$10,628,842	\$10,244,479
3	108.665		Overhead Conductors	\$5,255,456	\$5,642,593	\$5,449,024
4	108.666		Underground Conduit	\$583,417	\$652,016	\$617,717
5	108.667		Underground Conductors	\$2,187,176	\$2,448,411	\$2,317,793
6	108.668		Transformers	\$3,568,221	\$3,610,938	\$3,589,580
7	108.669		Service Entrants	\$2,293,694	\$2,415,868	\$2,354,781
8	108.670		Meters	\$1,066,821	\$1,163,276	\$1,115,049
9	108.671		Install On Cust Premises	\$620,867	\$668,690	\$644,779
10	108.672		Leased Property	(\$102,078)	(\$101,973)	(\$102,026)
11	108.673		Street Lighting	\$96,340	\$103,136	\$99,738
12			Normalization Adjustment (Allocated)			\$534,257
13			TOTAL	\$26,594,999	\$28,496,719	\$28,080,116
Allocation of the Normalization Adjustment						
Line	No.		Accumulated Depreciation	2006 Value	of Total	Percent
14			Distribution Plant-Related	\$28,496,719		89.9%
15			General Plant-Related	\$3,217,558		10.1%
16			TOTAL	\$31,714,277		100.0%
						\$594,580
						\$534,257
						\$60,323
						\$594,580



<u>Line No.</u>	<u>Account Number</u>	<u>Description</u>
1	365.100	2/0 ACSR
2	365.101	4 ACSR
8	365.107	397.5 AAAC
9	365.110	652.4 MCM
10	365.111	STD C
11	365.120	STATIC WIRE
12	365.123	CWC
13	365.129	4 TPX
17	365.133	2/0 TPX
18	365.134	3/0 TPX
21	365.142	2 QUAD
23	365.144	2/0 QUAD
24	365.145	3/0 QUAD
27	365.150	8 WEATHERPROOF
28	365.178	500 MCM ALUMINUM
29	365.179	6 SOLID BARE COPPER
30	365.180	6 HARD DRAWN COPPER
31	365.181	6A STEEL
32	365.183	3#6 AWC
33	365.184	7 ALUMINUM
34	365.200	12 TW
37	365.417	336.4 AERIAL



Optimization Calculations

Output File Name 2007362

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
19	S C	42.80	.444021415E+12	25.62	39.03	67.20
24	S -.5	37.30	.453874992E+12	25.90	38.61	80.98
22	O 3	67.10	.465587025E+12	26.23	38.12	58.27
14	R 1	33.80	.470673082E+12	26.38	37.91	94.76
23	O 4	89.40	.477419206E+12	26.57	37.64	55.20
1	L 0	41.60	.480472001E+12	26.65	37.52	73.80
27	L 0.5	37.80	.532315166E+12	28.05	35.65	81.01
7	S 0	33.70	.588819271E+12	29.50	33.90	92.70
29	R 1.5	31.70	.593237866E+12	29.61	33.77	99.01
2	L 1	34.90	.664392689E+12	31.34	31.91	87.36
25	S 0.5	31.90	.731143378E+12	32.87	30.42	97.62
15	R 2	30.00	.821641090E+12	34.85	28.69	100.00
28	L 1.5	32.80	.831662708E+12	35.06	28.52	92.26
8	S 1	30.40	.964080354E+12	37.75	26.49	99.80
21	O 2	27.00	.108206100E+13	39.99	25.01	89.36
30	R 2.5	29.00	.108347780E+13	40.02	24.99	100.00
3	L 2	31.30	.111275681E+13	40.56	24.65	95.68
26	S 1.5	29.50	.118162070E+13	41.79	23.93	99.99
16	R 3	28.10	.145049445E+13	46.30	21.60	100.00
9	S 2	28.70	.147772553E+13	46.74	21.39	100.00
4	L 3	29.00	.168420682E+13	49.90	20.04	99.57
10	S 3	27.70	.202324799E+13	54.69	18.28	100.00
17	R 4	27.20	.215217559E+13	56.40	17.73	100.00
5	L 4	27.60	.227970508E+13	58.05	17.23	100.00
11	S 4	27.00	.267833230E+13	62.92	15.89	100.00
6	L 5	27.00	.285071118E+13	64.91	15.41	100.00
18	R 5	26.70	.293264127E+13	65.84	15.19	100.00
12	S 5	26.70	.314440853E+13	68.18	14.67	100.00
13	S 6	26.50	.342370361E+13	71.14	14.06	100.00
20	S Q	24.50	.526554587E+13	88.22	11.34	100.00

*Picked LO 41.6 yrs
Same as last time*

Optimization Calculations

Output File Name 2007364upd

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
23	O 4	74.40	.129212852E+14	56.06	17.84	60.79
22	O 3	56.30	.134963393E+14	57.29	17.46	64.96
19	S C	36.50	.148291078E+14	60.05	16.65	78.80
1	L 0	36.00	.187113395E+14	67.46	14.82	81.92
24	S -.5	32.60	.189431923E+14	67.87	14.73	91.58
14	R 1	29.90	.211914913E+14	71.79	13.93	99.63
27	L 0.5	33.30	.217201246E+14	72.68	13.76	87.82
7	S 0	29.80	.242009281E+14	76.72	13.03	99.37
29	R 1.5	28.30	.248853227E+14	77.79	12.86	100.00
2	L 1	30.60	.254284813E+14	78.64	12.72	93.59
25	S 0.5	28.30	.275791397E+14	81.90	12.21	100.00
28	L 1.5	29.00	.290869195E+14	84.11	11.89	96.63
15	R 2	26.80	.294633974E+14	84.65	11.81	100.00
8	S 1	27.00	.315158849E+14	87.55	11.42	100.00
21	O 2	23.70	.321243238E+14	88.39	11.31	93.39
3	L 2	27.60	.334117268E+14	90.14	11.09	98.72
30	R 2.5	26.00	.338583110E+14	90.74	11.02	100.00
26	S 1.5	26.30	.346959155E+14	91.86	10.89	100.00
9	S 2	25.50	.384422323E+14	96.69	10.34	100.00
16	R 3	25.20	.389918653E+14	97.38	10.27	100.00
4	L 3	25.80	.405560868E+14	99.31	10.07	99.99
10	S 3	24.80	.446504768E+14	104.20	9.60	100.00
17	R 4	24.50	.468972955E+14	106.79	9.36	100.00
5	L 4	24.60	.472065229E+14	107.15	9.33	100.00
11	S 4	24.20	.512373041E+14	111.63	8.96	100.00
6	L 5	24.10	.528463270E+14	113.37	8.82	100.00
18	R 5	24.00	.542021901E+14	114.81	8.71	100.00
12	S 5	23.90	.557776642E+14	116.47	8.59	100.00
13	S 6	23.80	.584083817E+14	119.18	8.39	100.00
20	S Q	21.50	.724527549E+14	132.74	7.53	100.00

Selected LO curve for 36 yrs
Same as last time.

Optimization Calculations

Output File Name 20073651u

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
1	L 0	34.90	.363044763E+14	42.49	23.53	83.54
27	L 0.5	34.50	.437647477E+14	46.65	21.44	86.02
19	S C	32.90	.863237966E+14	65.52	15.26	87.40
24	S -.5	33.10	.881968302E+14	66.22	15.10	90.44
2	L 1	34.10	.885667935E+14	66.36	15.07	88.58
22	O 3	44.10	.160983087E+15	89.47	11.18	73.43
7	S 0	33.30	.162432958E+15	89.87	11.13	93.51
21	O 2	28.30	.174811956E+15	93.23	10.73	87.73
28	L 1.5	33.90	.183998295E+15	95.65	10.45	90.72
14	R 1	33.30	.248894120E+15	111.25	8.99	95.62
23	O 4	55.60	.256594660E+15	112.96	8.85	68.80
25	S 0.5	33.30	.275007233E+15	116.94	8.55	95.55
3	L 2	33.70	.327204789E+15	127.55	7.84	92.81
29	R 1.5	33.30	.405630283E+15	142.02	7.04	97.56
8	S 1	33.30	.434924031E+15	147.06	6.80	97.59
26	S 1.5	33.40	.621335184E+15	175.77	5.69	98.49
15	R 2	33.30	.629423521E+15	176.91	5.65	99.50
4	L 3	33.40	.765310873E+15	195.08	5.13	96.87
9	S 2	33.40	.849427790E+15	205.52	4.87	99.49
30	R 2.5	33.30	.869160805E+15	207.89	4.81	99.75
16	R 3	33.00	.116750205E+16	240.94	4.15	100.00
10	S 3	33.00	.131832487E+16	256.03	3.91	99.98
5	L 4	33.00	.144048244E+16	267.63	3.74	99.76
17	R 4	32.50	.168886472E+16	289.79	3.45	100.00
11	S 4	32.40	.190231926E+16	307.56	3.25	100.00
6	L 5	32.40	.202826970E+16	317.58	3.15	100.00
18	R 5	32.30	.227262742E+16	336.16	2.97	100.00
12	S 5	32.10	.240662990E+16	345.93	2.89	100.00
13	S 6	31.80	.279383895E+16	372.72	2.68	100.00
20	S Q	29.50	.331477422E+16	405.99	2.46	100.00

Selected LO curve at 34.9 years.
Selected L1 prior study

Optimization Calculations

Output File Name 20073652u

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
23	O 4	125.50	.407130784E+14	60.50	16.53	42.32
22	O 3	91.10	.414506999E+14	61.05	16.38	44.64
19	S C	57.80	.440436131E+14	62.93	15.89	47.10
24	S -.5	50.60	.607848874E+14	73.93	13.53	54.66
1	L 0	56.70	.635951767E+14	75.62	13.22	53.07
14	R 1	45.60	.678198143E+14	78.09	12.81	62.18
27	L 0.5	51.70	.784250301E+14	83.98	11.91	58.00
7	S 0	45.80	.867577521E+14	88.32	11.32	63.09
29	R 1.5	42.60	.879640314E+14	88.94	11.24	72.24
2	L 1	47.40	.994571528E+14	94.57	10.57	63.90
25	S 0.5	43.20	.106148400E+15	97.70	10.24	70.36
15	R 2	40.50	.116170081E+15	102.20	9.78	81.87
28	L 1.5	44.60	.120106718E+15	103.92	9.62	70.15
8	S 1	41.30	.131612554E+15	108.79	9.19	77.29
30	R 2.5	39.10	.144267632E+15	113.90	8.78	90.06
3	L 2	42.40	.148435739E+15	115.53	8.66	75.97
21	O 2	36.90	.150187698E+15	116.21	8.61	71.94
26	S 1.5	40.00	.153238061E+15	117.38	8.52	83.59
16	R 3	38.00	.178617452E+15	126.73	7.89	96.34
9	S 2	38.80	.179738539E+15	127.13	7.87	89.63
4	L 3	39.40	.195527646E+15	132.60	7.54	86.16
10	S 3	37.50	.222832493E+15	141.55	7.06	97.00
17	R 4	37.00	.232919541E+15	144.72	6.91	99.98
5	L 4	37.40	.239340025E+15	146.70	6.82	95.95
11	S 4	36.50	.265490624E+15	154.51	6.47	99.87
6	L 5	36.50	.275474846E+15	157.39	6.35	99.45
18	R 5	36.20	.281667248E+15	159.14	6.28	100.00
12	S 5	36.10	.292272916E+15	162.11	6.17	100.00
13	S 6	35.90	.307656142E+15	166.32	6.01	100.00
20	S Q	33.50	.335896408E+15	173.79	5.75	100.00

Selected LI curve at 47.4 years.
Same curve selection as last time.

Optimization Calculations

Output File Name 20073653u

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
1	L 0	36.90	.2371000922E+8	21.98	45.50	80.56
27	L 0.5	35.40	.2947486822E+8	24.50	40.82	84.66
19	S C	35.30	.3476589204E+8	26.61	37.58	81.40
24	S -.5	34.10	.3517532709E+8	26.77	37.36	88.08
2	L 1	34.10	.4839734998E+8	31.40	31.85	88.58
22	O 3	51.20	.5343044840E+8	32.99	30.31	68.39
7	S 0	33.10	.6458406947E+8	36.27	27.57	93.98
23	O 4	65.60	.7039816583E+8	37.87	26.41	64.43
14	R 1	32.90	.7635307985E+8	39.44	25.35	96.33
28	L 1.5	33.30	.8296229015E+8	41.11	24.32	91.54
21	O 2	27.60	.8500482413E+8	41.61	24.03	88.62
25	S 0.5	32.50	.1035211295E+9	45.92	21.78	96.83
29	R 1.5	32.30	.1238827384E+9	50.24	19.90	98.56
3	L 2	32.50	.1314917671E+9	51.76	19.32	94.33
8	S 1	32.00	.1557431816E+9	56.33	17.75	98.90
15	R 2	31.80	.1889408044E+9	62.04	16.12	99.97
26	S 1.5	31.70	.2085951778E+9	65.19	15.34	99.52
30	R 2.5	31.40	.2519570176E+9	71.64	13.96	100.00
4	L 3	31.50	.2555242474E+9	72.15	13.86	98.39
9	S 2	31.20	.2691580653E+9	74.05	13.50	99.96
16	R 3	31.00	.3259429534E+9	81.49	12.27	100.00
10	S 3	30.80	.3776803735E+9	87.72	11.40	100.00
5	L 4	30.70	.4099211944E+9	91.38	10.94	99.97
17	R 4	30.60	.4480811035E+9	95.54	10.47	100.00
11	S 4	30.40	.5016530843E+9	101.09	9.89	100.00
6	L 5	30.40	.5302056197E+9	103.93	9.62	100.00
18	R 5	30.30	.5765624342E+9	108.38	9.23	100.00
12	S 5	30.20	.6054912544E+9	111.06	9.00	100.00
13	S 6	30.10	.6820631777E+9	117.88	8.48	100.00
20	S Q	28.50	.8086248930E+9	128.35	7.79	100.00

*switched to L0 curve at 36.9 years
to better match the curve
selected for poles.*

Optimization Calculations

Output File Name 20073654u

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
14	R 1	26.10	.6771941856E+8	56.53	17.69	100.00
7	S 0	26.10	.7077530989E+8	57.79	17.30	100.00
24	S -.5	26.70	.7358748157E+8	58.93	16.97	100.00
25	S 0.5	25.70	.7364949555E+8	58.95	16.96	100.00
29	R 1.5	25.70	.7472511486E+8	59.38	16.84	100.00
3	L 2	25.50	.7903152217E+8	61.07	16.37	99.59
28	L 1.5	26.00	.7920740354E+8	61.14	16.36	98.84
8	S 1	25.30	.7973923482E+8	61.34	16.30	100.00
2	L 1	26.50	.8224943708E+8	62.30	16.05	97.88
4	L 3	24.80	.8376122706E+8	62.87	15.91	100.00
19	S C	27.40	.8450697962E+8	63.15	15.84	100.00
15	R 2	25.20	.8528100517E+8	63.44	15.76	100.00
26	S 1.5	25.00	.8591155978E+8	63.67	15.71	100.00
27	L 0.5	27.40	.8660490068E+8	63.93	15.64	95.53
9	S 2	24.70	.9324905558E+8	66.33	15.08	100.00
21	O 2	21.40	.9402728638E+8	66.61	15.01	96.23
1	L 0	28.30	.9462388532E+8	66.82	14.97	92.84
30	R 2.5	24.90	.9525152479E+8	67.04	14.92	100.00
5	L 4	24.30	.1024769327E+9	69.54	14.38	100.00
10	S 3	24.40	.1040204804E+9	70.06	14.27	100.00
16	R 3	24.50	.1060780496E+9	70.75	14.13	100.00
11	S 4	24.00	.1171020186E+9	74.34	13.45	100.00
17	R 4	24.20	.1183177228E+9	74.72	13.38	100.00
6	L 5	24.00	.1187955320E+9	74.87	13.36	100.00
18	R 5	23.90	.1297771441E+9	78.26	12.78	100.00
12	S 5	23.90	.1318922593E+9	78.89	12.68	100.00
22	O 3	37.40	.1369183030E+9	80.38	12.44	78.52
13	S 6	23.80	.1461477064E+9	83.04	12.04	100.00
23	O 4	46.50	.1577743273E+9	86.28	11.59	73.03
20	S Q	22.50	.1784873340E+9	91.77	10.90	100.00

*picked L3 curve at 27.8 years
 3 years added because of bad insulators
 purchased in 1980s.
 Same curve as last time.*

Optimization Calculations

Output File Name 20073655u

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
30	R 2.5	29.50	.833723878E+10	23.11	43.27	95.90
3	L 2	32.00	.853607257E+10	23.38	42.77	81.37
26	S 1.5	30.10	.853729020E+10	23.38	42.77	90.65
21	O 2	27.90	.866904522E+10	23.56	42.44	76.67
16	R 3	28.60	.867890227E+10	23.58	42.41	99.51
8	S 1	31.30	.873179919E+10	23.65	42.28	84.35
9	S 2	29.20	.932780665E+10	24.44	40.92	95.48
28	L 1.5	33.90	.951726028E+10	24.69	40.50	75.22
15	R 2	30.70	.960703531E+10	24.81	40.31	89.75
4	L 3	29.40	.965976302E+10	24.87	40.21	91.45
17	R 4	27.50	.104353317E+11	25.85	38.68	100.00
25	S 0.5	33.00	.105086331E+11	25.94	38.55	76.40
10	S 3	27.90	.112333934E+11	26.82	37.29	99.51
2	L 1	36.40	.116824359E+11	27.35	36.56	68.13
5	L 4	27.70	.118499958E+11	27.55	36.30	98.85
11	S 4	27.10	.130263662E+11	28.88	34.63	100.00
29	R 1.5	32.70	.130907463E+11	28.96	34.53	78.93
7	S 0	35.10	.135103911E+11	29.42	33.99	68.30
6	L 5	26.90	.141753419E+11	30.13	33.19	99.96
18	R 5	26.70	.143388033E+11	30.30	33.00	100.00
27	L 0.5	40.00	.156921654E+11	31.70	31.55	61.36
12	S 5	26.50	.158559837E+11	31.87	31.38	100.00
14	R 1	35.30	.181879292E+11	34.13	29.30	67.18
13	S 6	26.20	.194619555E+11	35.31	28.32	100.00
1	L 0	44.60	.200565831E+11	35.84	27.90	55.07
24	S -.5	39.70	.209668530E+11	36.64	27.29	57.16
19	S C	46.40	.288998388E+11	43.02	23.25	48.00
22	O 3	74.50	.304445709E+11	44.16	22.64	44.64
23	O 4	100.10	.311311427E+11	44.65	22.40	43.06
20	S Q	24.50	.357615238E+11	47.86	20.89	100.00

*Selected S1.5 at 30.10 years.
switch from S3 last time
S1.5 much better fit this time
and within same family.*

03/21/07

Page 1

*Acct 365.06 Cat and arresters
Judgment used - same 25 years life as last time.*

Optimization Calculations

Net Salary % =

Output File Name 20073661u

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
19	S C	57.80	.331590249E+10	54.37	18.39	30.70
23	O 4	129.50	.332832638E+10	54.47	18.36	28.80
22	O 3	98.50	.335187807E+10	54.66	18.29	28.51
24	S -.5	42.10	.345507564E+10	55.50	18.02	40.71
14	R 1	36.50	.346025927E+10	55.54	18.01	45.05
1	L 0	45.90	.356224669E+10	56.35	17.75	42.14
29	R 1.5	30.90	.361814293E+10	56.79	17.61	60.14
27	L 0.5	38.40	.364230219E+10	56.98	17.55	50.05
7	S 0	32.40	.374976390E+10	57.82	17.30	56.66
2	L 1	31.90	.378018923E+10	58.05	17.23	61.58
25	S 0.5	28.70	.388152707E+10	58.82	17.00	68.44
15	R 2	26.70	.388267654E+10	58.83	17.00	80.46
28	L 1.5	28.30	.392047651E+10	59.12	16.91	72.02
21	O 2	21.60	.395675529E+10	59.39	16.84	78.38
3	L 2	25.50	.405064848E+10	60.09	16.64	81.46
8	S 1	25.50	.405706341E+10	60.14	16.63	82.39
30	R 2.5	24.20	.413919459E+10	60.75	16.46	94.15
26	S 1.5	23.80	.416870224E+10	60.96	16.40	91.35
4	L 3	22.20	.423801462E+10	61.47	16.27	94.12
9	S 2	22.30	.426739395E+10	61.68	16.21	97.52
10	S 3	20.80	.440646037E+10	62.68	15.95	99.94
16	R 3	22.30	.440650536E+10	62.68	15.95	99.82
5	L 4	20.40	.451220859E+10	63.42	15.77	99.75
11	S 4	19.70	.462740768E+10	64.23	15.57	100.00
17	R 4	20.50	.467537313E+10	64.56	15.49	100.00
6	L 5	19.50	.472830919E+10	64.92	15.40	100.00
18	R 5	19.50	.492456416E+10	66.26	15.09	100.00
12	S 5	19.20	.495976454E+10	66.49	15.04	100.00
13	S 6	19.00	.525124253E+10	68.42	14.62	100.00
20	S Q	17.50	.600568041E+10	73.17	13.67	100.00

*Selected SC for 57.8 years.
approximates last years life
but curve is different*

Optimization Calculations

Output File Name 20073662u

Curve umber	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
19	S C	3.90	.6806737549E+5	373.39	2.68	100.00
1	L 0	3.90	.7042357056E+5	379.80	2.63	100.00
24	S -.5	3.90	.7323317581E+5	387.30	2.58	100.00
27	L 0.5	3.90	.7324385304E+5	387.33	2.58	100.00
2	L 1	3.90	.7744112010E+5	398.28	2.51	100.00
14	R 1	3.90	.7996115550E+5	404.70	2.47	100.00
7	S 0	3.90	.8005996324E+5	404.95	2.47	100.00
21	O 2	3.20	.8241421670E+5	410.87	2.43	100.00
28	L 1.5	3.90	.8252893974E+5	411.15	2.43	100.00
25	S 0.5	3.90	.8545529277E+5	418.38	2.39	100.00
29	R 1.5	3.90	.8618270008E+5	420.15	2.38	100.00
3	L 2	3.90	.8855313492E+5	425.89	2.35	100.00
22	O 3	4.00	.8866021748E+5	426.15	2.35	100.00
8	S 1	3.90	.9157665833E+5	433.10	2.31	100.00
15	R 2	3.90	.9335441141E+5	437.29	2.29	100.00
26	S 1.5	3.90	.9670908205E+5	445.07	2.25	100.00
30	R 2.5	3.90	.9926143336E+5	450.91	2.22	100.00
4	L 3	3.90	.1005993149E+6	453.94	2.20	100.00
9	S 2	3.90	.1022918293E+6	457.74	2.18	100.00
16	R 3	3.90	.1057217127E+6	465.35	2.15	100.00
10	S 3	3.90	.1106932906E+6	476.17	2.10	100.00
5	L 4	3.90	.1124406923E+6	479.91	2.08	100.00
23	O 4	4.30	.1146427083E+6	484.59	2.06	100.00
17	R 4	3.90	.1148113953E+6	484.94	2.06	100.00
11	S 4	3.90	.1184461502E+6	492.56	2.03	100.00
6	L 5	3.80	.1200147284E+6	495.81	2.02	100.00
18	R 5	3.90	.1228335151E+6	501.60	1.99	100.00
12	S 5	3.80	.1241665535E+6	504.31	1.98	100.00
13	S 6	3.70	.1271261955E+6	510.29	1.96	100.00
20	S Q	2.50	.1842910000E+6	614.40	1.63	100.00

Use same as conduit 366.01

Optimization Calculations

Not Salvaged

Output File Name

20073671u

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
3	L 2	34.80	.147755946E+10	9.07	110.25	64.26
28	L 1.5	40.00	.149109661E+10	9.11	109.77	52.07
30	R 2.5	33.00	.149573253E+10	9.13	109.53	67.10
8	S 1	35.30	.154348119E+10	9.27	107.87	58.13
25	S 0.5	40.90	.154820207E+10	9.29	107.64	45.36
26	S 1.5	32.30	.156680041E+10	9.34	107.07	69.45
2	L 1	46.40	.158223395E+10	9.39	106.50	42.53
16	R 3	29.40	.160004338E+10	9.44	105.93	88.03
4	L 3	29.60	.164301796E+10	9.57	104.49	81.82
7	S 0	48.20	.165085872E+10	9.59	104.28	36.10
15	R 2	37.80	.167870927E+10	9.67	103.41	47.83
9	S 2	29.70	.170552882E+10	9.75	102.56	81.71
27	L 0.5	57.90	.177990884E+10	9.96	100.40	32.90
21	O 2	29.40	.181052827E+10	10.04	99.60	63.51
10	S 3	27.10	.188256423E+10	10.24	97.66	95.77
1	L 0	71.00	.195259028E+10	10.43	95.88	27.88
5	L 4	26.70	.200823796E+10	10.58	94.52	95.46
29	R 1.5	47.20	.206678150E+10	10.73	93.20	31.77
11	S 4	25.60	.221361460E+10	11.10	90.09	99.90
17	R 4	26.50	.223156594E+10	11.15	89.69	99.92
24	S -.5	67.80	.223975482E+10	11.17	89.53	24.89
14	R 1	59.40	.231906523E+10	11.37	87.95	24.54
6	L 5	25.40	.242104639E+10	11.61	86.13	99.60
19	S C	100.10	.258409254E+10	12.00	83.33	19.20
18	R 5	25.20	.286529000E+10	12.63	79.18	100.00
12	S 5	25.00	.286704616E+10	12.64	79.11	100.00
22	O 3	149.90	.296211849E+10	12.85	77.82	20.61
13	S 6	24.70	.373302755E+10	14.42	69.35	100.00
20	S Q	22.50	.139986430E+11	27.93	35.80	100.00
23	O 4	149.90	.202972598E+11	33.63	29.74	27.09

*Switched to S1 curve at 35.3 years
used S4 curve last time*

Optimization Calculations

Output File Name 20073672u

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
19	S C	43.30	.4047481202E+5	15.16	65.96	39.80
22	O 3	72.40	.4263420970E+5	15.56	64.27	36.76
23	O 4	101.40	.5368496936E+5	17.46	57.27	34.77
14	R 1	28.00	.6081304904E+5	18.59	53.79	65.00
24	S -.5	32.30	.6598504447E+5	19.36	51.65	54.06
29	R 1.5	23.40	.8568514022E+5	22.06	45.33	87.00
1	L 0	35.40	.9005938694E+5	22.62	44.21	53.74
27	L 0.5	29.40	.1185435013E+6	25.95	38.54	64.81
7	S 0	25.10	.1415661935E+6	28.36	35.26	75.08
15	R 2	20.00	.1440518062E+6	28.61	34.95	99.50
25	S 0.5	22.10	.1892555735E+6	32.79	30.50	88.95
2	L 1	24.90	.1929103289E+6	33.11	30.20	76.74
30	R 2.5	17.90	.2151428031E+6	34.96	28.60	100.00
28	L 1.5	21.90	.2449337194E+6	37.30	26.81	86.88
8	S 1	19.60	.2824860213E+6	40.06	24.96	98.30
26	S 1.5	18.20	.3457368851E+6	44.32	22.56	99.91
16	R 3	16.40	.3552035778E+6	44.92	22.26	100.00
3	L 2	19.60	.3621150807E+6	45.36	22.05	94.11
9	S 2	16.90	.4630816812E+6	51.29	19.50	100.00
21	O 2	17.10	.5042809785E+6	53.53	18.68	87.48
4	L 3	16.80	.5524034539E+6	56.02	17.85	99.81
17	R 4	15.00	.6423610833E+6	60.41	16.55	100.00
10	S 3	15.50	.6592059031E+6	61.20	16.34	100.00
5	L 4	15.20	.7501606448E+6	65.28	15.32	100.00
11	S 4	14.50	.8888213883E+6	71.06	14.07	100.00
6	L 5	14.40	.9546913616E+6	73.65	13.58	100.00
18	R 5	14.20	.9744630002E+6	74.41	13.44	100.00
12	S 5	14.10	.1053617679E+7	77.37	12.92	100.00
13	S 6	13.80	.1142939717E+7	80.58	12.41	100.00
20	S Q	12.50	.1350006000E+7	87.58	11.42	100.00

*picked R1 curve at 28 years
 Same curve as last time.*

Optimization Calculations

Output File Name 20073673u

Curve number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
17	R 4	15.60	.7953812973E+2	26.23	38.12	100.00
18	R 5	15.20	.7998268647E+2	26.30	38.02	100.00
11	S 4	15.40	.8887084071E+2	27.73	36.06	100.00
6	L 5	15.40	.9512096845E+2	28.68	34.87	100.00
12	S 5	15.20	.1003536987E+3	29.46	33.94	100.00
5	L 4	15.80	.1036299409E+3	29.94	33.40	99.90
10	S 3	15.80	.1170961228E+3	31.83	31.42	100.00
16	R 3	16.40	.1319811596E+3	33.79	29.59	100.00
13	S 6	15.10	.1330616735E+3	33.93	29.47	100.00
4	L 3	16.70	.1390445443E+3	34.68	28.84	96.58
9	S 2	16.50	.1527480496E+3	36.35	27.51	99.53
30	R 2.5	17.10	.1540640842E+3	36.51	27.39	99.29
19	S C	27.30	.1585992780E+3	37.04	27.00	52.20
22	O 3	43.30	.1588341756E+3	37.07	26.98	48.19
23	O 4	57.80	.1593948914E+3	37.13	26.93	46.54
24	S -.5	23.10	.1610048528E+3	37.32	26.80	63.87
14	R 1	20.80	.1612628075E+3	37.35	26.77	75.52
3	L 2	18.20	.1621988896E+3	37.46	26.70	88.59
26	S 1.5	17.20	.1630129896E+3	37.55	26.63	97.20
28	L 1.5	19.40	.1647623356E+3	37.75	26.49	82.75
29	R 1.5	19.20	.1647713067E+3	37.75	26.49	87.61
1	L 0	25.80	.1648719102E+3	37.76	26.48	60.74
27	L 0.5	23.00	.1654670479E+3	37.83	26.43	68.31
15	R 2	17.90	.1658872410E+3	37.88	26.40	96.62
7	S 0	20.30	.1701832378E+3	38.37	26.06	76.93
2	L 1	20.80	.1709616282E+3	38.46	26.00	75.96
25	S 0.5	19.00	.1710057073E+3	38.46	26.00	85.73
8	S 1	17.90	.1722577382E+3	38.60	25.91	93.29
21	O 2	15.50	.1853849628E+3	40.04	24.98	83.78
20	S Q	13.50	.4090000000E+3	59.48	16.81	100.00

*Selected R4 curve at 25 years. Discussion with personnel
 Better life than 15.6 shown by printout
 Same as last time*

03/21/07

Optimization Calculations

Output File Name 20073674u

Curve umber	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
23	O 4	115.00	.7665584814E+4	12.21	81.90	31.94
19	S C	52.90	.7690644199E+4	12.23	81.77	33.60
22	O 3	85.50	.7681729145E+4	12.23	81.77	32.57
14	R 1	34.50	.7781753907E+4	12.30	81.30	49.19
29	R 1.5	29.40	.7941577345E+4	12.43	80.45	65.73
24	S -.5	39.50	.8189088781E+4	12.62	79.24	43.91
15	R 2	25.30	.8564270973E+4	12.91	77.46	86.56
30	R 2.5	23.10	.8922721162E+4	13.18	75.87	96.83
1	L 0	42.60	.9094675517E+4	13.30	75.19	45.71
27	L 0.5	35.50	.9893210229E+4	13.87	72.10	54.77
7	S 0	30.50	.1058331871E+5	14.35	69.69	61.32
25	S 0.5	26.90	.1152085834E+5	14.97	66.80	74.48
2	L 1	29.90	.1240218966E+5	15.53	64.39	66.16
16	R 3	21.20	.1249102726E+5	15.59	64.14	100.00
28	L 1.5	26.60	.1328297556E+5	16.08	62.19	76.37
8	S 1	24.00	.1393456556E+5	16.47	60.72	87.82
26	S 1.5	22.40	.1475314852E+5	16.94	59.03	95.14
3	L 2	23.60	.1703022246E+5	18.20	54.95	86.30
9	S 2	20.90	.1864097821E+5	19.04	52.52	99.27
4	L 3	20.50	.2538898388E+5	22.23	44.98	97.05
21	O 2	20.00	.2872462383E+5	23.64	42.30	82.24
10	S 3	19.10	.3142601381E+5	24.73	40.44	100.00
17	R 4	19.10	.3228016889E+5	25.06	39.90	100.00
5	L 4	18.70	.3990333915E+5	27.86	35.89	99.98
11	S 4	18.00	.5538308800E+5	32.83	30.46	100.00
6	L 5	17.70	.6118833383E+5	34.50	28.99	100.00
18	R 5	17.70	.6445921147E+5	35.41	28.24	100.00
12	S 5	17.60	.7168638058E+5	37.35	26.77	100.00
13	S 6	17.30	.7831965662E+5	39.04	25.61	100.00
20	S Q	15.50	.9402600000E+5	42.77	23.38	100.00

*picked R1 at 34.5 years.
Same as last time*

03/21/07

Page

1

Optimization Calculations

Output File Name

2007368

72.05

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
24	S -.5	45.30	.257783519E+12	14.04	71.23	65.96
1	L 0	50.40	.260522569E+12	14.11	70.87	62.58
14	R 1	41.00	.261055894E+12	14.13	70.77	77.83
27	L 0.5	45.30	.267817717E+12	14.31	69.88	69.84
7	S 0	40.10	.280998479E+12	14.66	68.21	78.73
19	S C	53.00	.284517815E+12	14.75	67.80	54.20
22	O 3	83.90	.301182690E+12	15.18	65.88	49.76
2	L 1	41.20	.301725770E+12	15.19	65.83	77.21
23	O 4	111.60	.309395049E+12	15.38	65.02	47.98
29	R 1.5	38.10	.323951044E+12	15.74	63.53	89.13
25	S 0.5	37.70	.340060977E+12	16.13	62.00	87.13
28	L 1.5	38.60	.362553350E+12	16.65	60.06	83.59
21	O 2	31.10	.435595234E+12	18.25	54.79	84.01
8	S 1	35.70	.436675801E+12	18.27	54.73	94.01
3	L 2	36.30	.451109782E+12	18.57	53.85	89.21
15	R 2	35.70	.450851782E+12	18.57	53.85	97.20
26	S 1.5	34.50	.541298119E+12	20.34	49.16	97.43
30	R 2.5	34.30	.600337733E+12	21.43	46.66	99.39
4	L 3	33.60	.655262796E+12	22.38	44.68	96.69
9	S 2	33.40	.664443658E+12	22.54	44.37	99.49
16	R 3	33.00	.765521266E+12	24.19	41.34	100.00
10	S 3	32.10	.866770544E+12	25.74	38.85	100.00
5	L 4	31.80	.901721390E+12	26.26	38.08	99.91
17	R 4	31.60	.986462590E+12	27.46	36.42	100.00
11	S 4	31.20	.105183289E+13	28.36	35.26	100.00
6	L 5	31.00	.107596278E+13	28.68	34.87	100.00
18	R 5	30.80	.114902196E+13	29.64	33.74	100.00
12	S 5	30.60	.118079288E+13	30.05	33.28	100.00
13	S 6	30.40	.126602129E+13	31.11	32.14	100.00
20	S Q	28.50	.207016909E+13	39.79	25.13	100.00

Select R1.5 at 38 10 yo
same as last year

Optimization Calculations

-72.05

Output File Name

2007368

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
24	S -.5	45.30	.257783519E+12	14.04	71.23	65.96
1	L 0	50.40	.260522569E+12	14.11	70.87	62.58
14	R 1	41.00	.261055894E+12	14.13	70.77	77.83
27	L 0.5	45.30	.267817717E+12	14.31	69.88	69.84
7	S 0	40.10	.280998479E+12	14.66	68.21	78.73
19	S C	53.00	.284517815E+12	14.75	67.80	54.20
22	O 3	83.90	.301182690E+12	15.18	65.88	49.76
2	L 1	41.20	.301725770E+12	15.19	65.83	77.21
23	O 4	111.60	.309395049E+12	15.38	65.02	47.98
29	R 1.5	38.10	.323951044E+12	15.74	63.53	89.13
25	S 0.5	37.70	.340060977E+12	16.13	62.00	87.13
28	L 1.5	38.60	.362553350E+12	16.65	60.06	83.59
21	O 2	31.10	.435595234E+12	18.25	54.79	84.01
8	S 1	35.70	.436675801E+12	18.27	54.73	94.01
3	L 2	36.30	.451109782E+12	18.57	53.85	89.21
15	R 2	35.70	.450851782E+12	18.57	53.85	97.20
26	S 1.5	34.50	.541298119E+12	20.34	49.16	97.43
30	R 2.5	34.30	.600337733E+12	21.43	46.66	99.39
4	L 3	33.60	.655262796E+12	22.38	44.68	96.69
9	S 2	33.40	.664443658E+12	22.54	44.37	99.49
16	R 3	33.00	.765521266E+12	24.19	41.34	100.00
10	S 3	32.10	.866770544E+12	25.74	38.85	100.00
5	L 4	31.80	.901721390E+12	26.26	38.08	99.91
17	R 4	31.60	.986462590E+12	27.46	36.42	100.00
11	S 4	31.20	.105183289E+13	28.36	35.26	100.00
6	L 5	31.00	.107596278E+13	28.68	34.87	100.00
18	R 5	30.80	.114902196E+13	29.64	33.74	100.00
12	S 5	30.60	.118079288E+13	30.05	33.28	100.00
13	S 6	30.40	.126602129E+13	31.11	32.14	100.00
20	S 0	28.50	.207016909E+13	39.79	25.13	100.00

Select R1.5 at 38 10 yrs
same as last year

Optimization Calculations

72.05

Output File Name

2007368

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
24	S -.5	45.30	.257783519E+12	14.04	71.23	65.96
1	L 0	50.40	.260522569E+12	14.11	70.87	62.58
14	R 1	41.00	.261055894E+12	14.13	70.77	77.83
27	L 0.5	45.30	.267817717E+12	14.31	69.88	69.84
7	S 0	40.10	.280998479E+12	14.66	68.21	78.73
19	S C	53.00	.284517815E+12	14.75	67.80	54.20
22	O 3	83.90	.301182690E+12	15.18	65.88	49.76
2	L 1	41.20	.301725770E+12	15.19	65.83	77.21
23	O 4	111.60	.309395049E+12	15.38	65.02	47.98
29	R 1.5	38.10	.323951044E+12	15.74	63.53	89.13
25	S 0.5	37.70	.340060977E+12	16.13	62.00	87.13
28	L 1.5	38.60	.362553350E+12	16.65	60.06	83.59
21	O 2	31.10	.435595234E+12	18.25	54.79	84.01
8	S 1	35.70	.436675801E+12	18.27	54.73	94.01
3	L 2	36.30	.451109782E+12	18.57	53.85	89.21
15	R 2	35.70	.450851782E+12	18.57	53.85	97.20
26	S 1.5	34.50	.541298119E+12	20.34	49.16	97.43
30	R 2.5	34.30	.600337733E+12	21.43	46.66	99.39
4	L 3	33.60	.655262796E+12	22.38	44.68	96.69
9	S 2	33.40	.664443658E+12	22.54	44.37	99.49
16	R 3	33.00	.765521266E+12	24.19	41.34	100.00
10	S 3	32.10	.866770544E+12	25.74	38.85	100.00
5	L 4	31.80	.901721390E+12	26.26	38.08	99.91
17	R 4	31.60	.986462590E+12	27.46	36.42	100.00
11	S 4	31.20	.105183289E+13	28.36	35.26	100.00
6	L 5	31.00	.107596278E+13	28.68	34.87	100.00
18	R 5	30.80	.114902196E+13	29.64	33.74	100.00
12	S 5	30.60	.118079288E+13	30.05	33.28	100.00
13	S 6	30.40	.126602129E+13	31.11	32.14	100.00
20	S Q	28.50	.207016909E+13	39.79	25.13	100.00

Select R1.5 at 38.10 yrs
Same as last year

Optimization Calculations

Not Salvaged

Output File Name 20073691U

Curve umber	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
22	O 3	35.80	.213321809E+13	55.59	17.99	79.76
23	O 4	43.40	.354227402E+13	71.63	13.96	74.55
1	L 0	29.40	.459168619E+13	81.56	12.26	91.42
19	S C	28.60	.657310251E+13	97.58	10.25	100.00
27	L 0.5	29.10	.712043336E+13	101.56	9.85	93.60
24	S -.5	28.60	.970821039E+13	118.59	8.43	100.00
2	L 1	28.80	.105984082E+14	123.91	8.07	95.71
21	O 2	23.50	.135976754E+14	140.35	7.13	93.62
7	S 0	28.30	.146263612E+14	145.56	6.87	100.00
28	L 1.5	28.60	.146418071E+14	145.64	6.87	97.00
14	R 1	28.10	.162727757E+14	153.54	6.51	100.00
25	S 0.5	28.30	.188372150E+14	165.19	6.05	100.00
3	L 2	28.40	.196875698E+14	168.88	5.92	98.21
29	R 1.5	28.00	.211835318E+14	175.18	5.71	100.00
8	S 1	28.00	.239784718E+14	186.38	5.37	100.00
15	R 2	27.80	.272461117E+14	198.67	5.03	100.00
26	S 1.5	28.00	.285514773E+14	203.37	4.92	100.00
4	L 3	28.10	.313198416E+14	213.01	4.69	99.79
30	R 2.5	27.80	.324621167E+14	216.86	4.61	100.00
9	S 2	27.80	.337359209E+14	221.07	4.52	100.00
16	R 3	27.40	.385690505E+14	236.38	4.23	100.00
10	S 3	27.50	.425867455E+14	248.38	4.03	100.00
5	L 4	27.80	.446407964E+14	254.30	3.93	100.00
17	R 4	27.40	.479958459E+14	263.68	3.79	100.00
11	S 4	27.40	.522026360E+14	275.00	3.64	100.00
6	L 5	27.40	.542400078E+14	280.31	3.57	100.00
18	R 5	27.20	.576966325E+14	289.11	3.46	100.00
12	S 5	27.20	.599179989E+14	294.62	3.39	100.00
13	S 6	27.20	.655351343E+14	308.12	3.25	100.00
20	S Q	25.50	.728050972E+14	324.76	3.08	100.00

*picked LO curve at 40 years.
Idle services not being retired
Same as last year*

Optimization Calculations

Output File Name 20073692u

0% not selected

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
14	R 1	125.70	.236527861E+10	14.23	70.27	9.82
24	S -.5	142.60	.248437507E+10	14.59	68.54	10.18
29	R 1.5	92.20	.249018147E+10	14.61	68.45	11.26
1	L 0	142.60	.289151272E+10	15.74	63.53	11.67
15	R 2	67.00	.290551736E+10	15.78	63.37	14.86
27	L 0.5	107.30	.296440440E+10	15.94	62.74	13.51
7	S 0	85.70	.331576799E+10	16.85	59.35	15.26
30	R 2.5	55.40	.339603483E+10	17.06	58.62	18.51
2	L 1	79.60	.354184078E+10	17.42	57.41	18.00
25	S 0.5	71.90	.369417290E+10	17.79	56.21	17.12
28	L 1.5	66.30	.394869090E+10	18.39	54.38	21.09
16	R 3	45.20	.455142579E+10	19.75	50.63	29.22
8	S 1	57.00	.456192368E+10	19.77	50.58	23.61
19	S C	153.70	.459460069E+10	19.84	50.40	12.80
3	L 2	54.70	.496903487E+10	20.63	48.47	28.65
26	S 1.5	50.70	.500264700E+10	20.70	48.31	27.95
9	S 2	45.20	.604504832E+10	22.76	43.94	35.28
4	L 3	43.80	.648902414E+10	23.58	42.41	43.28
17	R 4	38.00	.681899330E+10	24.17	41.37	53.04
21	O 2	46.20	.737607282E+10	25.14	39.78	32.80
10	S 3	39.40	.757232706E+10	25.47	39.26	50.31
5	L 4	38.00	.804789502E+10	26.26	38.08	61.46
11	S 4	35.70	.943575475E+10	28.43	35.17	72.42
18	R 5	34.40	.978406615E+10	28.95	34.54	87.53
6	L 5	35.00	.993093895E+10	29.17	34.28	81.14
12	S 5	33.90	.108829268E+11	30.53	32.75	91.89
13	S 6	32.90	.117708758E+11	31.75	31.50	99.64
20	S Q	30.50	.139917089E+11	34.62	28.89	100.00
22	O 3	153.70	.274752710E+11	48.51	20.61	20.61
23	O 4	153.70	.687961594E+11	76.77	13.03	27.09

*Picked R2.5 at 55.4 years.
Same as last year*

Optimization Calculations

Output File Name 2007370upd

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
23	O 4	74.40	.103202664E+12	42.40	23.58	60.79
22	O 3	56.90	.106016870E+12	42.97	23.27	64.53
19	S C	37.10	.115694107E+12	44.89	22.28	77.50
1	L 0	37.10	.129870410E+12	47.56	21.03	80.28
24	S -.5	33.80	.133910429E+12	48.30	20.70	88.82
27	L 0.5	34.40	.140325402E+12	49.44	20.23	86.21
14	R 1	31.40	.144122026E+12	50.11	19.96	98.39
29	R 1.5	29.90	.152141267E+12	51.48	19.43	99.81
2	L 1	32.10	.153109651E+12	51.64	19.36	91.56
7	S 0	31.20	.156156778E+12	52.16	19.17	97.45
15	R 2	28.50	.161375654E+12	53.02	18.96	100.00
28	L 1.5	30.50	.161791046E+12	53.09	18.84	95.10
25	S 0.5	29.90	.164440051E+12	53.52	18.68	99.60
21	O 2	24.90	.169154505E+12	54.28	18.42	91.94
3	L 2	29.20	.170801594E+12	54.55	18.33	97.63
30	R 2.5	27.60	.172174350E+12	54.76	18.26	100.00
8	S 1	28.70	.172261474E+12	54.78	18.25	100.00
26	S 1.5	27.90	.175997474E+12	55.37	18.06	100.00
9	S 2	27.20	.181103909E+12	56.17	17.80	100.00
4	L 3	27.30	.183826772E+12	56.59	17.67	99.90
16	R 3	26.90	.186212875E+12	56.95	17.56	100.00
10	S 3	26.30	.192936378E+12	57.97	17.25	100.00
5	L 4	26.10	.200657315E+12	59.12	16.91	100.00
17	R 4	26.00	.209266787E+12	60.38	16.56	100.00
11	S 4	25.70	.213908534E+12	61.04	16.38	100.00
6	L 5	25.60	.221355704E+12	62.10	16.10	100.00
18	R 5	25.40	.233085106E+12	63.72	15.69	100.00
12	S 5	25.30	.238340213E+12	64.43	15.52	100.00
13	S 6	25.20	.259928254E+12	67.29	14.86	100.00
20	S Q	23.50	.326142353E+12	75.37	13.27	100.00

*Selected R2.5 at 27.6 years
Same as last time*

Possible AUR installation system wide

Optimization Calculations

Output File Name 2007371upd

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
23	O 4	42.40	.431228116E+11	46.00	21.74	69.74
22	O 3	33.60	.569037809E+11	52.84	18.93	74.64
19	S C	24.00	.112652856E+12	74.35	13.45	94.80
1	L 0	24.80	.120432212E+12	76.88	13.01	88.71
27	L 0.5	23.80	.156336049E+12	87.59	11.42	92.37
24	S -.5	23.20	.164122783E+12	89.74	11.14	98.94
2	L 1	23.10	.198655272E+12	98.74	10.13	95.29
7	S 0	22.60	.226819339E+12	105.50	9.48	100.00
14	R 1	22.60	.244797331E+12	109.60	9.12	100.00
21	O 2	18.50	.244898604E+12	109.63	9.12	93.79
28	L 1.5	22.60	.249946012E+12	110.75	9.03	97.05
25	S 0.5	22.20	.281555536E+12	117.54	8.51	100.00
3	L 2	22.10	.306497274E+12	122.64	8.15	98.51
29	R 1.5	22.20	.313013887E+12	123.94	8.07	100.00
8	S 1	21.90	.341788080E+12	129.51	7.72	100.00
15	R 2	21.80	.388957748E+12	138.16	7.24	100.00
26	S 1.5	21.60	.399521234E+12	140.02	7.14	100.00
4	L 3	21.40	.434314815E+12	145.99	6.85	99.93
30	R 2.5	21.60	.459108564E+12	150.10	6.66	100.00
9	S 2	21.40	.461107899E+12	150.43	6.65	100.00
16	R 3	21.20	.533637480E+12	161.82	6.18	100.00
10	S 3	21.00	.567597961E+12	166.89	5.99	100.00
5	L 4	20.90	.584704184E+12	169.39	5.90	100.00
17	R 4	20.80	.641851862E+12	177.48	5.63	100.00
11	S 4	20.70	.674703020E+12	181.96	5.50	100.00
6	L 5	20.60	.687774270E+12	183.71	5.44	100.00
18	R 5	20.50	.731170791E+12	189.42	5.28	100.00
12	S 5	20.40	.745693242E+12	191.29	5.23	100.00
13	S 6	20.20	.785994044E+12	196.40	5.09	100.00
20	S Q	18.50	.857111111E+12	205.09	4.88	100.00

*Selected SC curve at 24 years.
Same as last time.*

Optimization Calculations

Output File Name 2007373upd

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
19	S C	121.40	.1604278485E+9	17.65	56.66	23.70
24	S -.5	76.70	.1751294461E+9	18.44	54.23	35.20
29	R 1.5	55.10	.1752813547E+9	18.44	54.23	50.48
14	R 1	72.40	.1809053953E+9	18.74	53.36	32.97
15	R 2	41.90	.1936474442E+9	19.39	51.57	84.06
30	R 2.5	37.30	.2207896265E+9	20.70	48.31	97.01
1	L 0	77.70	.2248251110E+9	20.89	47.87	40.09
27	L 0.5	62.90	.2302237023E+9	21.14	47.30	49.42
7	S 0	49.50	.2695506382E+9	22.87	43.73	61.19
22	O 3	148.60	.2745391445E+9	23.08	43.33	30.41
2	L 1	47.00	.2844636556E+9	23.50	42.55	68.24
25	S 0.5	42.20	.2925528883E+9	23.83	41.96	77.33
28	L 1.5	40.30	.3292750915E+9	25.28	39.56	80.82
16	R 3	34.20	.3567670710E+9	26.31	38.01	100.00
8	S 1	35.50	.3876884885E+9	27.43	36.46	94.39
26	S 1.5	33.30	.4423399547E+9	29.30	34.13	98.55
3	L 2	34.50	.4694410157E+9	30.18	33.13	91.74
20	S Q	37.50	.5591048989E+9	32.94	30.36	100.00
13	S 6	38.30	.5815224761E+9	33.60	29.76	100.00
17	R 4	35.20	.6184550762E+9	34.65	28.86	100.00
9	S 2	31.80	.6241500383E+9	34.80	28.74	99.90
12	S 5	37.50	.6320797268E+9	35.03	28.55	100.00
18	R 5	37.10	.6339993370E+9	35.08	28.51	100.00
6	L 5	37.10	.6995058896E+9	36.85	27.14	99.76
11	S 4	36.40	.7041113279E+9	36.97	27.05	99.99
4	L 3	32.20	.7463297651E+9	38.06	26.27	97.89
23	O 4	165.80	.7507736147E+9	38.17	26.20	35.28
10	S 3	34.60	.7671030967E+9	38.59	25.91	99.85
5	L 4	36.20	.7916107826E+9	39.20	25.51	98.63
21	O 2	25.90	.8783716831E+9	41.29	24.22	90.71

Selected R2 at 41.9 years.

Same as last year

The First Year of Data is	1949
The Last Year of Data is	2006
Total Observations are	58

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1949	15,267,184.000	144,564.000	15,122,620.000	0.02	372,088.31
1950	1,743,002.000	69,840.000	16,795,782.000	0.03	435,738.83
1951	844,964.000	142,220.000	17,498,526.000	0.03	463,641.75
1952	5,975,984.000	0.000	23,474,510.000	0.03	695,196.81
1953	1,120,278.000	317,088.000	24,277,700.000	0.03	733,276.85
1954	2,644,352.000	383,776.000	26,538,276.000	0.03	854,013.69
1955	519,006.000	353,170.000	26,704,112.000	0.03	865,151.65
1956	170,682.000	119,184.000	26,755,610.000	0.03	869,135.83
1957	218,304.000	108,104.000	26,865,810.000	0.03	879,369.95
1958	207,528.000	172,738.000	26,900,600.000	0.03	883,112.75
1959	154,390.000	203,446.000	26,851,544.000	0.03	881,175.53
1960	227,386.000	308,932.000	26,769,998.000	0.03	881,481.38
1961	232,304.000	235,128.000	26,767,174.000	0.03	887,332.87
1962	411,990.000	194,237.000	26,984,927.000	0.03	900,199.91
1963	254,906.000	101,364.000	27,138,469.000	0.03	910,546.31
1964	487,068.000	1,187,170.000	26,438,367.000	0.03	879,240.87
1965	377,740.000	1,567,762.000	25,248,345.000	0.03	844,040.68
1966	149,798.000	199,262.000	25,198,881.000	0.03	842,719.03
1967	148,161.000	196,734.000	25,150,308.000	0.03	840,473.94
1968	244,448.000	1,187,472.000	24,207,284.000	0.03	808,532.88
1969	449,525.000	1,180,347.000	23,476,462.000	0.03	792,642.59
1970	172,290.000	527,092.000	23,121,660.000	0.03	781,802.43
1971	34,866.000	145,670.000	23,010,856.000	0.03	779,807.06
1972	55,901.000	735,872.000	22,330,885.000	0.03	760,023.23
1973	226,014.000	589,924.000	21,966,975.000	0.03	730,204.86
1974	67,557.000	2,044,316.000	19,990,216.000	0.03	677,372.95
1975	0.000	19,826.000	19,970,390.000	0.03	674,662.71
1976	0.000	0.000	19,970,390.000	0.03	669,763.67
1977	19,531.000	360,678.000	19,629,243.000	0.03	659,532.18
1978	3,114.000	558,194.000	19,074,163.000	0.03	638,316.74
1979	312,056.000	397,982.000	18,988,237.000	0.03	640,032.66

The First Year of Data is	1949
The Last Year of Data is	2006
Total Observations are	58

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1980	26,022.000	1,285,488.000	17,728,771.000	0.03	609,152.14
1981	14,216.000	210,248.000	17,532,739.000	0.03	602,741.48
1982	1,488.000	219,238.000	17,314,989.000	0.03	595,265.88
1983	1,389,220.000	247,632.000	18,456,577.000	0.04	658,376.48
1984	19,582.000	1,150,764.000	17,325,395.000	0.04	621,893.22
1985	4,832.000	1,375,993.000	15,954,234.000	0.04	570,076.75
1986	15,788.000	239,404.000	15,730,618.000	0.04	567,262.92
1987	6,036.000	272,176.000	15,464,478.000	0.04	556,606.26
1988	8,650.000	663,048.000	14,810,080.000	0.04	532,345.32
1989	6,555.000	266,431.000	14,550,204.000	0.04	596,451.85
1990	2,480.000	234,594.000	14,318,090.000	0.02	345,712.35
1991	4,336.000	720,065.000	13,602,361.000	0.02	310,842.09
1992	1,847.000	675,053.000	12,929,155.000	0.02	274,205.02
1993	260.000	521,336.000	12,408,079.000	0.02	248,677.60
1994	124.000	388,501.000	12,019,702.000	0.02	229,292.96
1995	1,284.000	333,863.000	11,687,123.000	0.02	212,794.18
1996	114.000	144,221.000	11,543,016.000	0.02	205,149.99
1997	174.000	315,257.000	11,227,933.000	0.02	190,274.37
1998	0.000	416,763.000	10,811,170.000	0.02	170,343.52
1999	335,720.000	440,922.000	10,705,968.000	0.02	188,038.58
2000	11.000	190,726.000	10,515,253.000	0.02	178,753.08
2001	0.000	226,283.000	10,288,970.000	0.02	167,860.49
2002	204.000	128,498.000	10,160,676.000	0.06	161,965.99
2003	140.000	76,747.000	10,084,069.000	0.06	158,266.90
2004	0.000	119,175.000	9,964,894.000	0.06	152,698.24
2005	648.000	106,627.000	9,858,915.000	0.06	148,189.71
2006	0.000	57,963.000	9,800,952.000	0.06	145,453.44

The First Year of Data is	1952
The Last Year of Data is	2006
Total Observations are	55

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1952	5,345.000	0.000	5,345.000	0.06	297.43
1953	106,075.000	0.000	111,420.000	0.04	4,850.45
1954	1,271,627.000	0.000	1,383,047.000	0.05	62,848.54
1955	672,966.000	1,000.000	2,055,013.000	0.04	89,549.08
1956	237,069.000	985.000	2,291,097.000	0.04	99,879.33
1957	223,854.000	1,443.000	2,513,508.000	0.07	114,476.51
1958	132,680.000	1,677.000	2,644,511.000	0.07	123,431.26
1959	214,202.000	12,086.000	2,846,627.000	0.07	137,279.11
1960	272,026.000	31,951.000	3,086,702.000	0.06	151,196.39
1961	177,985.000	55,091.000	3,209,596.000	0.07	160,486.43
1962	63,412.000	642,216.000	2,630,792.000	0.08	134,890.02
1963	1,288,026.000	616,940.000	3,301,878.000	0.05	161,726.42
1964	1,145,207.000	27,018.000	4,420,067.000	0.11	289,863.61
1965	1,598,066.000	147,484.000	5,870,649.000	0.11	456,515.02
1966	160,383.000	30,893.000	6,000,139.000	0.10	470,219.26
1967	197,500.000	39,652.000	6,157,987.000	0.10	487,604.88
1968	1,245,557.000	76,587.000	7,326,957.000	0.14	654,566.84
1969	1,202,076.000	152,078.000	8,376,955.000	0.15	822,281.93
1970	608,876.000	54,259.000	8,931,572.000	0.12	892,833.43
1971	262,890.000	24,692.000	9,169,770.000	0.13	923,433.24
1972	778,524.000	165,599.000	9,782,695.000	0.20	1,060,999.36
1973	681,798.000	224,708.000	10,239,785.000	0.19	1,164,648.39
1974	1,843,784.000	379,721.000	11,703,848.000	0.24	1,560,972.52
1975	2,380,725.000	5,080.000	14,079,493.000	0.07	1,730,469.45
1976	8,166.000	2,767.000	14,084,892.000	0.32	1,732,757.06
1977	504,250.000	57,614.000	14,531,528.000	0.34	1,896,853.09
1978	793,554.000	240,696.000	15,084,386.000	0.41	2,189,267.85
1979	615,790.000	57,165.000	15,643,011.000	0.35	2,395,506.55
1980	1,283,460.000	225,169.000	16,701,302.000	0.33	2,783,736.49
1981	186,344.000	1,775.000	16,885,871.000	0.41	2,859,437.63
1982	309,171.000	132,496.000	17,062,546.000	0.47	2,983,031.22

The First Year of Data is	1952
The Last Year of Data is	2006
Total Observations are	55

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1983	369,081.000	101,729.000	17,329,898.000	0.61	3,192,096.32
1984	1,099,125.000	370,472.000	18,058,551.000	0.46	3,624,653.74
1985	905,417.000	104,012.000	18,859,956.000	0.44	3,999,945.28
1986	293,993.000	44,342.000	19,109,607.000	0.43	4,115,910.77
1987	344,240.000	107,257.000	19,346,590.000	0.45	4,249,212.19
1988	513,218.000	107,969.000	19,751,839.000	0.47	4,465,559.28
1989	433,704.000	104,567.000	20,080,976.000	1.07	4,905,832.21
1990	391,561.000	135,524.000	20,337,013.000	0.62	5,116,629.68
1991	798,408.000	148,114.000	20,987,307.000	0.56	5,529,116.79
1992	758,075.000	187,463.000	21,557,919.000	0.56	5,907,632.40
1993	683,347.000	166,487.000	22,074,779.000	0.66	6,311,934.84
1994	593,898.000	143,039.000	22,525,638.000	0.85	6,776,042.85
1995	626,004.000	174,494.000	22,977,148.000	0.80	7,222,111.53
1996	395,201.000	100,976.000	23,271,373.000	0.92	7,552,779.35
1997	653,112.000	136,495.000	23,787,990.000	0.76	8,003,078.53
1998	738,416.000	123,600.000	24,402,806.000	0.73	8,498,299.60
1999	749,541.000	127,340.000	25,025,007.000	0.70	8,982,221.99
2000	683,334.000	162,360.000	25,545,981.000	0.66	9,377,479.72
2001	492,671.000	117,135.000	25,921,517.000	0.62	9,641,553.80
2002	343,451.000	117,729.000	26,147,239.000	0.38	9,900,434.38
2003	273,532.000	74,960.000	26,345,811.000	0.39	10,143,964.37
2004	364,330.000	111,508.000	26,598,633.000	0.39	10,359,066.66
2005	355,198.000	117,961.000	26,835,870.000	0.40	10,586,775.64
2006	375,230.000	131,459.000	27,079,641.000	0.41	11,064,496.48

The First Year of Data is	1949
The Last Year of Data is	2006
Total Observations are	58

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1949	5,703.000	27.000	5,676.000	2.95	16,745.49
1950	1,047.000	32.000	6,691.000	3.04	20,332.23
1951	435.000	58.000	7,068.000	3.06	21,607.92
1952	3,270.000	0.000	10,338.000	3.36	34,707.67
1953	754.000	31.000	11,061.000	3.43	37,911.43
1954	2,877.000	148.000	13,790.000	3.98	54,861.51
1955	1,169.000	145.000	14,814.000	4.15	61,490.44
1956	869.000	110.000	15,573.000	4.20	65,481.41
1957	699.000	76.000	16,196.000	4.27	69,076.39
1958	411.000	80.000	16,527.000	4.32	71,478.90
1959	462.000	112.000	16,877.000	4.40	74,276.30
1960	514.000	142.000	17,249.000	4.47	77,040.09
1961	410.000	74.000	17,585.000	4.55	80,019.31
1962	563.000	92.000	18,056.000	4.64	83,829.86
1963	1,071.000	87.000	19,040.000	4.73	90,009.29
1964	1,302.000	506.000	19,836.000	4.93	97,692.86
1965	1,775.000	1,058.000	20,553.000	5.37	110,284.26
1966	631.000	135.000	21,049.000	5.47	115,087.99
1967	698.000	218.000	21,529.000	5.65	121,546.98
1968	1,572.000	619.000	22,482.000	6.04	135,822.21
1969	1,672.000	695.000	23,459.000	6.44	150,963.39
1970	1,221.000	326.000	24,354.000	6.68	162,647.05
1971	1,106.000	229.000	25,231.000	7.11	179,276.02
1972	1,366.000	1,367.000	25,230.000	7.97	201,127.50
1973	1,407.000	532.000	26,105.000	8.48	221,498.96
1974	1,563.000	497.000	27,171.000	9.37	254,501.84
1975	1,563.000	497.000	28,237.000	10.20	287,955.72
1976	1,564.000	497.000	29,304.000	10.95	320,967.58
1977	1,126.000	319.000	30,111.000	11.52	347,020.41
1978	1,508.000	506.000	31,113.000	12.37	384,936.97
1979	1,486.000	725.000	31,874.000	13.77	439,028.78

The First Year of Data is	1949
The Last Year of Data is	2006
Total Observations are	58

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1980	1,733.000	860.000	32,747.000	14.82	485,359.04
1981	904.000	425.000	33,226.000	15.74	522,907.71
1982	727.000	420.000	33,533.000	16.49	553,053.61
1983	803.000	355.000	33,981.000	17.37	590,397.79
1984	1,557.000	871.000	34,667.000	18.60	644,693.83
1985	1,573.000	850.000	35,390.000	19.63	694,568.67
1986	1,055.000	431.000	36,014.000	20.58	741,186.11
1987	1,277.000	770.000	36,521.000	21.53	786,374.50
1988	1,201.000	635.000	37,087.000	22.94	850,637.79
1989	899.000	426.000	37,560.000	23.37	877,727.44
1990	1,002.000	607.000	37,955.000	23.82	903,908.96
1991	1,746.000	1,362.000	38,339.000	24.52	939,950.72
1992	1,720.000	1,386.000	38,673.000	25.09	970,370.89
1993	1,563.000	1,042.000	39,194.000	25.83	1,012,456.99
1994	1,713.000	1,035.000	39,872.000	26.86	1,070,776.31
1995	2,072.000	1,369.000	40,575.000	27.74	1,125,370.92
1996	1,509.000	811.000	41,273.000	28.54	1,177,787.21
1997	1,570.000	824.000	42,019.000	29.26	1,229,315.45
1998	1,553.000	1,100.000	42,472.000	30.46	1,293,668.10
1999	1,612.000	997.000	43,087.000	31.01	1,336,268.84
2000	1,428.000	657.000	43,858.000	31.32	1,373,818.29
2001	1,256.000	810.000	44,304.000	31.89	1,412,772.16
2002	1,035.000	557.000	44,782.000	32.45	1,453,504.42
2003	1,050.000	506.000	45,326.000	33.08	1,499,926.84
2004	1,345.000	545.000	46,126.000	33.77	1,558,254.65
2005	1,504.000	682.000	46,948.000	34.75	1,631,673.17
2006	1,146.000	479.000	47,615.000	36.07	1,717,982.11

The First Year of Data is	1949
The Last Year of Data is	2006
Total Observations are	58

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1949	3,405.000	47.000	3,358.000	3.55	11,923.07
1950	959.000	15.000	4,302.000	3.69	15,887.19
1951	231.000	31.000	4,502.000	3.71	16,723.53
1952	1,365.000	0.000	5,867.000	4.11	24,101.25
1953	558.000	173.000	6,252.000	4.31	26,930.01
1954	1,923.000	100.000	8,075.000	4.24	34,269.13
1955	347.000	135.000	8,287.000	4.34	35,940.31
1956	348.000	67.000	8,568.000	4.35	37,234.84
1957	219.000	46.000	8,741.000	4.40	38,478.18
1958	252.000	81.000	8,912.000	4.45	39,631.99
1959	245.000	77.000	9,080.000	4.54	41,212.67
1960	304.000	119.000	9,265.000	4.64	42,996.44
1961	245.000	108.000	9,402.000	4.73	44,493.41
1962	412.000	90.000	9,724.000	4.89	47,551.10
1963	518.000	83.000	10,159.000	5.01	50,887.60
1964	805.000	447.000	10,517.000	5.33	56,100.40
1965	888.000	591.000	10,814.000	5.86	63,408.67
1966	545.000	96.000	11,263.000	6.11	68,829.06
1967	601.000	177.000	11,687.000	6.37	74,474.46
1968	1,120.000	424.000	12,383.000	6.93	85,823.78
1969	1,036.000	576.000	12,843.000	7.57	97,258.49
1970	814.000	219.000	13,438.000	7.97	107,147.17
1971	853.000	144.000	14,147.000	8.55	120,907.72
1972	991.000	308.000	14,830.000	9.95	147,580.23
1973	1,068.000	472.000	15,426.000	11.48	177,108.03
1974	1,289.000	400.000	16,315.000	13.97	227,867.05
1975	1,289.000	400.000	17,204.000	16.84	289,784.01
1976	1,289.000	401.000	18,092.000	18.82	340,543.03
1977	1,038.000	196.000	18,934.000	21.19	401,178.20
1978	1,057.000	277.000	19,714.000	23.64	466,093.41
1979	918.000	256.000	20,376.000	27.19	553,977.77

The First Year of Data is	1949
The Last Year of Data is	2006
Total Observations are	58

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1980	1,120.000	618.000	20,878.000	30.89	644,850.27
1981	643.000	289.000	21,232.000	33.66	714,597.12
1982	397.000	181.000	21,448.000	35.52	761,872.25
1983	406.000	212.000	21,642.000	37.48	811,076.50
1984	739.000	526.000	21,855.000	40.38	882,618.08
1985	884.000	643.000	22,096.000	42.37	936,227.36
1986	914.000	420.000	22,590.000	44.93	1,015,028.10
1987	1,051.000	504.000	23,137.000	48.08	1,112,563.26
1988	2,950.000	553.000	25,534.000	47.33	1,208,692.85
1989	770.000	884.000	25,420.000	47.72	1,213,246.43
1990	1,010.000	386.000	26,044.000	47.55	1,238,526.55
1991	1,433.000	1,063.000	26,414.000	47.93	1,266,077.53
1992	2,156.000	862.000	27,708.000	47.94	1,328,506.12
1993	3,944.000	3,223.000	28,429.000	48.45	1,377,588.18
1994	1,779.000	1,298.000	28,910.000	49.47	1,430,393.60
1995	2,714.000	1,778.000	29,846.000	50.03	1,493,434.18
1996	1,660.000	797.000	30,709.000	50.11	1,538,987.87
1997	1,662.000	1,812.000	30,559.000	51.41	1,571,057.07
1998	1,383.000	670.000	31,272.000	51.77	1,618,931.67
1999	1,249.000	687.000	31,834.000	51.82	1,649,601.33
2000	1,245.000	452.000	32,627.000	52.73	1,720,553.41
2001	1,262.000	677.000	33,212.000	56.36	1,871,848.42
2002	1,014.000	584.000	33,642.000	59.80	2,011,853.10
2003	969.000	600.000	34,011.000	49.78	1,693,033.65
2004	1,109.000	551.000	34,569.000	53.63	1,854,007.10
2005	1,025.000	564.000	35,030.000	54.04	1,893,031.48
2006	997.000	486.000	35,541.000	54.25	1,928,239.42

The First Year of Data is	1962
The Last Year of Data is	2006
Total Observations are	45

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1962	615.000	0.000	615.000	1.00	615.00
1963	984.000	0.000	1,599.000	1.00	1,599.00
1964	89,180.880	0.000	90,779.880	1.00	90,779.88
1965	13,401.790	0.000	104,181.670	1.00	104,181.67
1966	15,353.180	0.000	119,534.850	1.00	119,534.85
1967	15,090.020	0.000	134,624.870	1.00	134,624.87
1968	10,765.170	4,223.200	141,166.840	1.00	141,166.84
1969	1,034.130	0.000	142,200.970	1.00	142,200.97
1970	17,039.330	0.000	159,240.300	1.00	159,240.30
1971	13,706.500	6,276.900	166,669.900	1.00	166,669.90
1972	8,528.380	0.000	175,198.280	1.00	175,198.28
1973	955.310	0.000	176,153.590	1.00	176,153.59
1974	7,233.380	0.000	183,386.970	1.00	183,386.97
1975	23,876.650	0.000	207,263.620	1.00	207,263.62
1976	49,841.830	0.000	257,105.450	1.00	257,105.45
1977	7,353.710	0.000	264,459.160	1.00	264,459.16
1978	38,642.910	0.000	303,102.070	1.00	303,102.07
1979	51,430.960	429.270	354,103.760	1.00	354,103.76
1980	13,198.200	658.260	366,643.700	1.00	366,643.70
1981	67,302.740	0.000	433,946.440	1.00	433,946.64
1982	57,520.270	52.620	491,414.090	1.00	491,414.29
1983	62,261.610	4,384.070	549,291.630	1.00	549,291.63
1984	48,088.640	8,090.420	589,289.850	1.00	589,289.85
1985	63,564.980	0.000	652,854.830	1.00	652,854.83
1986	39,324.070	451.600	691,727.300	1.00	691,727.30
1987	12,880.800	130.910	704,477.190	1.00	704,477.19
1988	32,211.410	2,949.680	733,738.920	1.00	733,738.92
1989	38,913.440	47,890.590	724,761.770	1.00	724,761.77
1990	92,610.120	7,093.210	810,278.680	1.00	810,278.68
1991	33,698.380	7,120.720	836,856.340	1.00	836,856.34
1992	34,693.790	14,309.900	857,240.230	1.00	857,240.23

The First Year of Data is	1962
The Last Year of Data is	2006
Total Observations are	45

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1993	12,939.830	6,222.460	863,957.600	1.00	863,957.60
1994	80,390.730	10,119.190	934,229.140	1.00	934,229.14
1995	23,568.830	11,328.630	946,469.340	1.00	946,469.34
1996	7,335.770	516.870	953,288.240	1.00	953,288.24
1997	56,429.800	19,656.540	990,061.500	1.00	990,061.50
1998	79,915.140	41,119.830	1,028,856.810	1.00	1,028,856.81
1999	27,859.280	35,824.010	1,020,892.080	1.00	1,020,892.08
2000	79,719.740	29,525.270	1,071,086.550	1.00	1,071,086.55
2001	50,802.960	15,143.300	1,106,746.210	1.00	1,106,746.21
2002	18,665.770	6,272.980	1,119,139.000	1.00	1,119,139.14
2003	119,629.300	12,163.230	1,226,605.070	1.00	1,226,605.21
2004	20,930.490	23,195.960	1,224,339.600	1.00	1,224,391.30
2005	65,582.610	9,671.120	1,280,251.090	1.00	1,280,302.79
2006	40,822.710	3,896.130	1,317,177.670	1.00	1,317,229.37

The First Year of Data is	1971
The Last Year of Data is	2006
Total Observations are	36

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1971	67.000	0.000	67.000	2.05	137.63
1972	660.000	0.000	727.000	0.87	629.10
1973	1,398.000	0.000	2,125.000	3.35	7,111.85
1974	4,395.000	0.000	6,520.000	3.24	21,104.78
1975	0.000	0.000	6,520.000	3.24	21,104.78
1976	3.000	0.000	6,523.000	3.30	21,533.28
1977	3,770.000	30.000	10,263.000	3.42	35,066.05
1978	3,176.000	0.000	13,439.000	3.11	41,749.95
1979	3,780.000	0.000	17,219.000	2.53	43,494.98
1980	2,323.000	4.000	19,538.000	2.30	44,905.47
1981	740.000	0.000	20,278.000	2.22	45,068.12
1982	2,275.000	0.000	22,553.000	2.17	48,949.73
1983	25,006.000	30.000	47,529.000	4.21	200,104.56
1984	3,707.000	0.000	51,236.000	4.00	204,865.95
1985	1,465.000	0.000	52,701.000	3.91	206,245.90
1986	1,994.000	19,109.000	35,586.000	5.03	179,111.47
1987	5,963.000	24.000	41,525.000	4.49	186,275.22
1988	11,222.000	0.000	52,747.000	8.40	443,260.21
1989	2,442.000	27.000	55,162.000	8.36	461,141.87
1990	7,841.000	209.000	62,794.000	8.53	535,785.87
1991	5,895.000	19.000	68,670.000	8.61	591,213.51
1992	11,212.000	156.000	79,726.000	8.58	684,428.18
1993	30,071.000	44.000	109,753.000	8.44	926,222.34
1994	66,439.000	1,107.000	175,085.000	8.66	1,516,207.62
1995	25,466.000	61.000	200,490.000	8.52	1,708,851.83
1996	16,225.000	90.000	216,625.000	8.49	1,838,187.12
1997	36,487.000	6,814.000	246,298.000	9.33	2,299,132.61
1998	64,268.000	53.000	310,513.000	8.46	2,626,973.36
1999	74,858.000	9,035.000	376,336.000	7.45	2,802,751.65
2000	72,867.000	222.000	448,981.000	6.93	3,113,032.43
2001	40,501.000	167.000	489,315.000	6.75	3,302,366.63

The First Year of Data is	1971
The Last Year of Data is	2006
Total Observations are	36

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
2002	46,114.000	48.000	535,381.000	6.75	3,232,215.80
2003	32,893.000	0.000	568,274.000	6.46	3,306,036.88
2004	46,420.000	150.000	614,544.000	6.10	3,405,771.43
2005	43,231.000	415.000	657,360.000	5.92	3,555,007.19
2006	75,286.000	352.000	732,294.000	5.69	3,848,148.05

The First Year of Data is	1983
The Last Year of Data is	2006
Total Observations are	24

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1983	15.000	0.000	15.000	1,469.09	22,036.38
1984	0.000	0.000	15.000	1,469.09	22,036.38
1985	0.000	0.000	15.000	1,469.09	22,036.38
1986	0.000	0.000	15.000	1,469.09	22,036.38
1987	0.000	0.000	15.000	1,469.09	22,036.38
1988	0.000	0.000	15.000	1,469.09	22,036.38
1989	0.000	0.000	15.000	1,469.09	22,036.38
1990	0.000	0.000	15.000	1,469.09	22,036.38
1991	4.000	0.000	19.000	1,181.73	22,452.82
1992	29.000	9.000	39.000	648.96	25,309.31
1993	9.000	11.000	37.000	670.64	24,813.54
1994	183.000	29.000	191.000	1,501.29	286,747.03
1995	65.000	62.000	194.000	1,471.17	285,407.91
1996	157.000	59.000	292.000	1,024.92	299,276.18
1997	104.000	78.000	318.000	944.64	300,395.64
1998	139.000	85.000	372.000	820.22	305,123.24
1999	90.000	62.000	400.000	751.64	300,657.38
2000	65.000	46.000	419.000	717.28	300,539.50
2001	20.000	22.000	417.000	719.07	299,850.84
2002	32.000	48.000	401.000	742.32	297,671.00
2003	4.000	354.000	51.000	5,070.33	258,586.80
2004	0.000	0.000	51.000	5,070.33	258,586.80
2005	0.000	0.000	51.000	5,070.33	258,586.80
2006	0.000	0.000	51.000	5,070.33	258,586.80

The First Year of Data is	1968
The Last Year of Data is	2006
Total Observations are	39

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1968	5,400.000	0.000	5,400.000	0.70	3,771.04
1969	0.000	0.000	5,400.000	0.99	5,370.66
1970	0.000	0.000	5,400.000	0.99	5,370.66
1971	13,918.000	0.000	19,318.000	0.67	12,962.17
1972	2,329.000	0.000	21,647.000	0.38	8,304.77
1973	5,882.000	0.000	27,529.000	1.63	44,837.22
1974	0.000	0.000	27,529.000	2.78	76,644.15
1975	0.000	220.000	27,309.000	2.80	76,353.74
1976	51,590.000	0.000	78,899.000	0.53	41,908.04
1977	3,469.000	0.000	82,368.000	0.56	46,204.98
1978	18,039.000	0.000	100,407.000	0.73	72,903.01
1979	29,447.000	268.000	129,586.000	0.83	107,400.78
1980	24,001.000	0.000	153,587.000	0.87	133,997.27
1981	1,965.000	0.000	155,552.000	0.83	128,584.00
1982	20,291.000	195.000	175,648.000	0.82	143,522.33
1983	38,296.000	537.000	213,407.000	1.11	236,418.79
1984	9,762.000	0.000	223,169.000	1.13	251,322.15
1985	10,444.000	0.000	233,613.000	1.08	252,791.15
1986	15,812.000	5,870.000	243,555.000	1.09	265,575.62
1987	91,003.000	100.000	334,458.000	1.06	355,981.36
1988	60,457.000	0.000	394,915.000	1.10	436,177.88
1989	32,877.000	366.000	427,426.000	1.28	548,211.22
1990	69,857.000	1,824.000	495,459.000	1.44	712,440.57
1991	56,232.000	403.000	551,288.000	1.47	812,977.17
1992	103,997.000	827.000	654,458.000	1.56	1,022,404.80
1993	101,804.000	600.000	755,662.000	1.70	1,285,591.47
1994	219,292.000	6,746.000	968,208.000	2.07	2,006,829.73
1995	117,580.000	1,916.000	1,083,872.000	2.11	2,290,084.25
1996	146,889.000	7,599.000	1,223,162.000	2.20	2,696,064.32
1997	128,771.000	4,198.000	1,347,735.000	2.28	3,069,161.64
1998	115,351.000	10,727.000	1,452,359.000	2.29	3,325,809.94

The First Year of Data is	1968
The Last Year of Data is	2006
Total Observations are	39

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1999	112,691.000	9,500.000	1,555,550.000	2.24	3,489,980.44
2000	128,789.000	26,292.000	1,658,047.000	2.55	4,230,327.49
2001	91,403.000	8,516.000	1,740,934.000	2.52	4,395,394.86
2002	80,753.000	16,765.000	1,804,922.000	2.55	4,604,997.85
2003	81,901.000	7,843.000	1,878,980.000	2.59	4,867,491.27
2004	119,752.000	10,679.000	1,988,053.000	2.59	5,144,138.26
2005	81,815.000	8,973.000	2,060,895.000	2.64	5,454,242.69
2006	94,785.000	2,039.000	2,153,641.000	2.71	5,846,080.63

The First Year of Data is	1972
The Last Year of Data is	2006
Total Observations are	35

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1972	18.000	0.000	18.000	13.27	238.94
1973	0.000	0.000	18.000	13.33	239.89
1974	9.000	8.000	19.000	19.58	371.97
1975	7.000	0.000	26.000	17.97	467.21
1976	0.000	0.000	26.000	17.97	467.21
1977	0.000	0.000	26.000	17.97	467.21
1978	0.000	0.000	26.000	17.97	467.21
1979	0.000	0.000	26.000	17.97	467.21
1980	0.000	0.000	26.000	17.97	467.21
1981	0.000	0.000	26.000	17.97	467.21
1982	0.000	0.000	26.000	17.97	467.21
1983	0.000	0.000	26.000	17.97	467.21
1984	0.000	0.000	26.000	19.31	502.10
1985	0.000	0.000	26.000	19.31	502.10
1986	0.000	0.000	26.000	19.31	502.10
1987	0.000	0.000	26.000	19.31	502.10
1988	1.000	0.000	27.000	21.26	573.94
1989	150.000	9.000	168.000	578.99	97,270.20
1990	265.000	7.000	426.000	318.82	135,815.20
1991	198.000	2.000	622.000	260.49	162,021.72
1992	427.000	15.000	1,034.000	222.27	229,828.25
1993	389.000	4.000	1,419.000	206.72	293,331.88
1994	752.000	36.000	2,135.000	201.96	431,181.67
1995	808.000	18.000	2,925.000	189.86	555,354.17
1996	692.000	44.000	3,573.000	193.57	691,611.79
1997	727.000	48.000	4,252.000	194.93	828,860.63
1998	778.000	64.000	4,966.000	192.67	956,804.95
1999	668.000	50.000	5,584.000	187.24	1,045,567.48
2000	729.000	171.000	6,142.000	185.05	1,136,563.76
2001	382.000	28.000	6,496.000	184.48	1,198,350.36
2002	374.000	104.000	6,766.000	204.01	1,270,152.54

The First Year of Data is	1972
The Last Year of Data is	2006
Total Observations are	35

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
2003	366.000	56.000	7,076.000	205.51	1,343,192.40
2004	613.000	29.000	7,660.000	212.68	1,514,301.23
2005	501.000	67.000	8,094.000	213.02	1,609,181.59
2006	676.000	40.000	8,730.000	213.48	1,748,371.48

The First Year of Data is	1978
The Last Year of Data is	2006
Total Observations are	29

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1978	1.000	0.000	1.000	506.02	506.02
1979	0.000	0.000	1.000	506.02	506.02
1980	0.000	0.000	1.000	506.02	506.02
1981	10.000	0.000	11.000	7,082.85	77,911.40
1982	0.000	0.000	11.000	7,082.85	77,911.40
1983	10.000	0.000	21.000	7,494.95	157,394.03
1984	0.000	0.000	21.000	7,494.95	157,394.03
1985	0.000	0.000	21.000	7,494.95	157,394.03
1986	0.000	0.000	21.000	7,494.95	157,394.03
1987	0.000	0.000	21.000	7,494.95	157,394.03
1988	3.000	0.000	24.000	6,577.50	157,860.07
1989	0.000	1.000	23.000	6,858.98	157,756.54
1990	1.000	1.000	23.000	6,862.60	157,839.70
1991	9.000	1.000	31.000	5,192.37	160,963.58
1992	7.000	1.000	37.000	4,771.75	176,554.73
1993	9.000	0.000	46.000	4,697.06	216,064.85
1994	6.000	0.000	52.000	4,247.70	220,880.63
1995	10.000	1.000	61.000	3,774.91	230,269.62
1996	11.000	0.000	72.000	3,348.60	241,099.23
1997	9.000	2.000	79.000	3,133.55	247,550.65
1998	13.000	11.000	81.000	3,132.23	253,710.59
1999	29.000	0.000	110.000	6,190.14	680,915.66
2000	16.000	3.000	123.000	5,760.28	708,514.89
2001	4.000	1.000	126.000	5,800.33	730,841.02
2002	14.000	2.000	138.000	5,436.33	750,212.97
2003	12.000	2.000	148.000	5,489.83	812,494.49
2004	21.000	2.000	167.000	5,310.78	886,900.12
2005	14.000	4.000	177.000	4,557.54	806,684.74
2006	7.000	1.000	183.000	4,468.01	817,647.07

The First Year of Data is	1971
The Last Year of Data is	2006
Total Observations are	36

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1971	9.000	0.000	9.000	28.23	254.06
1972	48.000	0.000	57.000	20.93	1,192.73
1973	14.000	0.000	71.000	19.83	1,407.97
1974	30.000	0.000	101.000	20.27	2,047.19
1975	1.000	0.000	102.000	20.60	2,100.96
1976	34.000	0.000	136.000	19.98	2,717.89
1977	2.000	0.000	138.000	19.26	2,658.56
1978	12.000	0.000	150.000	21.61	3,240.94
1979	6.000	1.000	155.000	22.75	3,525.93
1980	5.000	0.000	160.000	25.00	3,999.47
1981	0.000	0.000	160.000	25.00	3,999.47
1982	1.000	0.000	161.000	25.91	4,171.41
1983	27.000	0.000	188.000	25.58	4,808.40
1984	17.000	0.000	205.000	38.28	7,848.22
1985	4.000	0.000	209.000	41.90	8,756.34
1986	11.000	1.000	219.000	47.63	10,431.57
1987	34.000	0.000	253.000	64.92	16,424.60
1988	74.000	0.000	327.000	91.23	29,833.49
1989	20.000	0.000	347.000	95.12	33,005.31
1990	33.000	2.000	378.000	99.61	37,652.10
1991	12.000	4.000	386.000	101.97	39,360.32
1992	94.000	4.000	476.000	122.10	58,119.62
1993	104.000	4.000	576.000	143.26	82,520.24
1994	612.000	21.000	1,167.000	175.61	204,941.79
1995	308.000	31.000	1,444.000	191.48	276,496.15
1996	488.000	13.000	1,919.000	204.97	393,329.75
1997	288.000	18.000	2,189.000	214.22	468,934.99
1998	403.000	18.000	2,574.000	218.48	562,378.69
1999	275.000	54.000	2,795.000	215.46	602,201.82
2000	232.000	18.000	3,009.000	214.03	644,006.68
2001	157.000	12.000	3,154.000	216.80	683,773.42

The First Year of Data is	1971
The Last Year of Data is	2006
Total Observations are	36

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
2002	284.000	51.000	3,387.000	217.32	736,064.57
2003	301.000	31.000	3,657.000	228.12	834,220.52
2004	427.000	33.000	4,051.000	213.42	864,575.42
2005	248.000	71.000	4,228.000	219.09	926,300.87
2006	272.000	24.000	4,476.000	225.95	1,011,367.36

The First Year of Data is	1949
The Last Year of Data is	2006
Total Observations are	58

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1949	1,288,242.000	51,874.000	1,236,368.000	0.03	37,761.19
1950	467,367.000	25,374.000	1,678,361.000	0.03	54,579.99
1951	131,552.000	29,903.000	1,780,010.000	0.03	59,315.91
1952	622,919.000	0.000	2,402,929.000	0.04	93,418.60
1953	389,579.000	161,839.000	2,630,669.000	0.04	109,575.96
1954	1,050,148.000	106,056.000	3,574,761.000	0.05	175,816.97
1955	215,966.000	72,689.000	3,718,038.000	0.05	186,446.33
1956	159,039.000	134,185.000	3,742,892.000	0.05	191,284.45
1957	73,885.000	47,372.000	3,769,405.000	0.05	195,643.33
1958	87,205.000	65,594.000	3,791,016.000	0.05	200,525.93
1959	90,606.000	62,937.000	3,818,685.000	0.05	205,060.16
1960	105,150.000	62,336.000	3,861,499.000	0.05	210,608.25
1961	84,121.000	67,204.000	3,878,416.000	0.06	215,195.10
1962	192,932.000	99,287.000	3,972,061.000	0.06	230,054.10
1963	129,962.000	57,629.000	4,044,394.000	0.06	238,262.99
1964	71,560.000	71,984.000	4,043,970.000	0.06	246,828.89
1965	145,040.000	105,034.000	4,083,976.000	0.06	257,306.66
1966	87,590.000	82,255.000	4,089,311.000	0.07	269,343.71
1967	121,233.000	88,673.000	4,121,871.000	0.07	282,580.00
1968	137,831.000	115,534.000	4,144,168.000	0.07	298,506.18
1969	136,593.000	124,244.000	4,156,517.000	0.08	312,927.83
1970	138,994.000	100,756.000	4,194,755.000	0.08	328,141.42
1971	126,153.000	85,745.000	4,235,163.000	0.08	348,935.43
1972	147,081.000	109,054.000	4,273,190.000	0.09	386,417.48
1973	143,930.000	123,058.000	4,294,062.000	0.10	423,266.26
1974	128,591.000	141,433.000	4,281,220.000	0.11	473,023.26
1975	128,591.000	141,433.000	4,268,378.000	0.12	522,780.26
1976	128,591.000	141,434.000	4,255,535.000	0.13	572,538.11
1977	130,918.000	103,450.000	4,283,003.000	0.15	627,260.51
1978	-2,546.000	127,006.000	4,153,451.000	0.17	696,717.31
1979	132,105.000	131,918.000	4,153,638.000	0.18	747,994.20

The First Year of Data is	1949
The Last Year of Data is	2006
Total Observations are	58

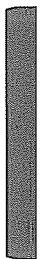
Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1980	111,747.000	173,303.000	4,092,082.000	0.19	785,078.62
1981	84,733.000	84,453.000	4,092,362.000	0.20	819,577.04
1982	58,984.000	80,121.000	4,071,225.000	0.21	840,985.07
1983	69,078.000	71,095.000	4,069,208.000	0.21	869,066.32
1984	81,278.000	808,721.000	3,341,765.000	0.26	869,816.68
1985	68,538.000	102,885.000	3,307,418.000	0.27	898,824.75
1986	66,947.000	67,933.000	3,306,432.000	0.28	924,382.56
1987	19,136.000	37,805.000	3,287,763.000	0.28	932,843.04
1988	14,695.000	34,125.000	3,268,333.000	0.29	942,606.40
1989	20,976.000	35,472.000	3,253,837.000	0.33	1,060,239.12
1990	19,604.000	45,458.000	3,227,983.000	0.34	1,087,288.87
1991	31,230.000	96,430.000	3,162,783.000	0.35	1,121,081.56
1992	45,090.000	130,732.000	3,077,141.000	0.38	1,169,132.15
1993	27,467.000	50,842.000	3,053,766.000	0.40	1,213,313.99
1994	36,274.000	54,585.000	3,035,455.000	0.42	1,276,210.15
1995	23,099.000	38,549.000	3,020,005.000	0.44	1,315,407.03
1996	19,474.000	31,869.000	3,007,610.000	0.45	1,348,554.13
1997	22,373.000	30,223.000	2,999,760.000	0.46	1,391,645.37
1998	19,570.000	29,522.000	2,989,808.000	0.48	1,428,273.51
1999	20,735.000	308,301.000	2,702,242.000	0.53	1,425,959.18
2000	21,503.000	34,406.000	2,689,339.000	0.54	1,456,772.68
2001	21,224.000	14,124.000	2,696,439.000	0.56	1,489,881.92
2002	14,465.000	21,417.000	2,689,487.000	0.57	1,515,502.80
2003	16,200.000	20,516.000	2,685,171.000	0.58	1,555,032.49
2004	17,105.000	22,589.000	2,679,687.000	0.60	1,582,877.62
2005	13,059.000	14,827.000	2,677,919.000	0.61	1,611,613.00
2006	10,541.000	12,445.000	2,676,015.000	0.62	1,643,334.31

The First Year of Data is	1967
The Last Year of Data is	2006
Total Observations are	40

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1967	364.000	0.000	364.000	0.43	201.83
1968	1,720.000	0.000	2,084.000	0.54	1,188.74
1969	2,305.000	0.000	4,389.000	0.61	2,727.20
1970	13,133.000	55.000	17,467.000	0.52	9,198.42
1971	8,749.000	122.000	26,094.000	0.53	13,997.36
1972	13,046.000	405.000	38,735.000	0.59	22,857.88
1973	6,205.000	0.000	44,940.000	0.61	27,445.79
1974	22,577.000	105.000	67,412.000	0.53	35,681.84
1975	22,577.000	100.000	89,889.000	0.49	43,917.89
1976	22,577.000	100.000	112,366.000	0.46	52,153.94
1977	41,502.000	12,029.000	141,839.000	0.40	57,121.92
1978	61,638.000	130.000	203,347.000	0.52	106,702.37
1979	38,308.000	673.000	240,982.000	0.54	131,249.88
1980	24,479.000	872.000	264,589.000	0.56	147,424.41
1981	17,840.000	787.000	281,642.000	0.57	161,908.22
1982	12,457.000	845.000	293,254.000	0.59	173,162.77
1983	19,267.000	1,333.000	311,188.000	0.60	186,648.10
1984	20,704.000	656.000	331,236.000	0.65	214,579.49
1985	22,617.000	328.000	353,525.000	0.67	236,881.61
1986	45,189.000	284.000	398,430.000	0.70	279,380.23
1987	42,846.000	341.000	440,935.000	0.76	333,540.42
1988	35,144.000	210.000	475,869.000	0.80	378,763.03
1989	31,483.000	604.000	506,748.000	0.99	501,121.80
1990	36,410.000	316.000	542,842.000	1.12	608,832.21
1991	37,293.000	404.000	579,731.000	1.23	714,031.39
1992	48,673.000	525.000	627,879.000	1.37	862,796.23
1993	47,467.000	712.000	674,634.000	1.54	1,036,271.74
1994	60,125.000	2,417.000	732,342.000	1.75	1,279,958.81
1995	60,785.000	1,041.000	792,086.000	1.88	1,487,816.07
1996	70,169.000	1,070.000	861,185.000	2.02	1,735,741.15
1997	66,487.000	665.000	927,007.000	2.17	2,015,843.88

The First Year of Data is	1967
The Last Year of Data is	2006
Total Observations are	40

Year	Additions	Retirements	Unit Balance	Unit Cost	Dollar Balance
1998	61,933.000	1,523.000	987,417.000	2.29	2,261,672.33
1999	51,756.000	843.000	1,038,330.000	2.34	2,425,615.73
2000	42,297.000	821.000	1,079,806.000	2.37	2,562,911.85
2001	47,825.000	1,272.000	1,126,359.000	2.41	2,716,392.79
2002	104,556.000	1,689.000	1,229,226.000	2.56	3,146,650.26
2003	76,878.000	2,002.000	1,304,102.000	2.66	3,468,516.80
2004	94,013.000	2,723.000	1,395,392.000	2.75	3,839,407.80
2005	97,830.000	1,281.000	1,491,941.000	2.90	4,334,474.16
2006	81,142.000	1,882.000	1,571,201.000	3.07	4,825,476.54



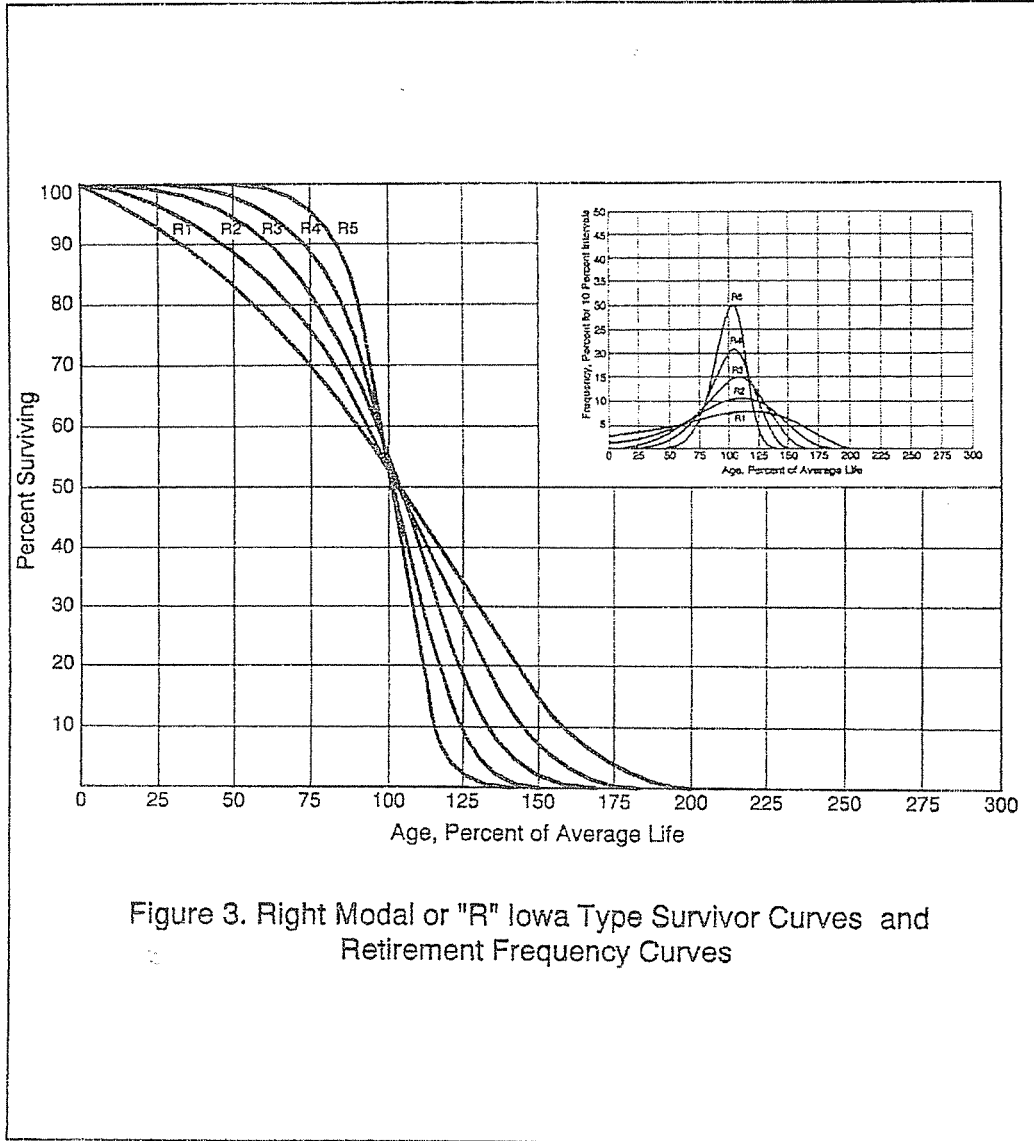


Figure 3. Right Modal or "R" Iowa Type Survivor Curves and Retirement Frequency Curves

Source: Gannett Fleming.

THE IOWA CURVES

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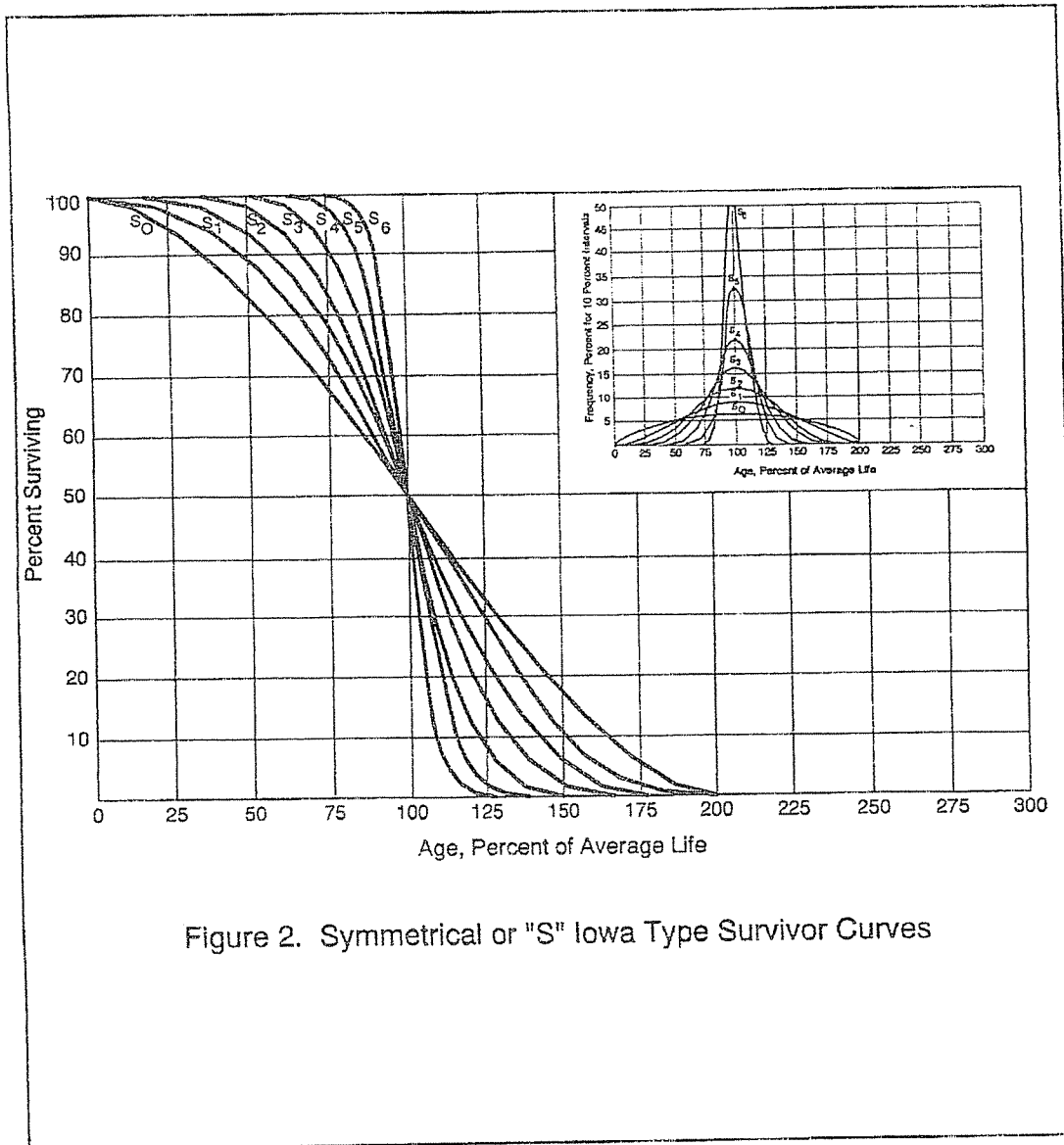


Figure 2. Symmetrical or "S" Iowa Type Survivor Curves

Source: Gannett Fleming.

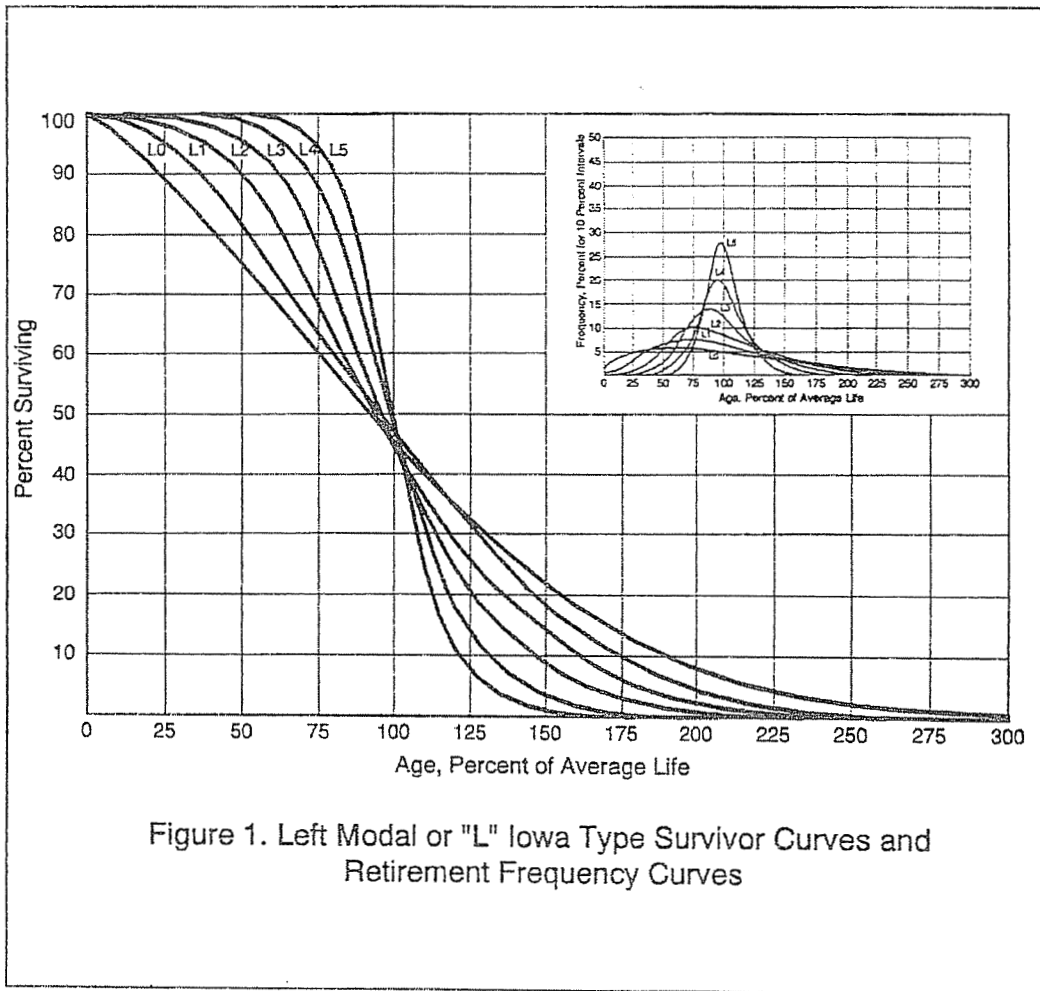


Figure 1. Left Modal or "L" Iowa Type Survivor Curves and Retirement Frequency Curves

Source: Plotted by Gannett Fleming Valuation and Rate Consultants, Inc.

THE IOWA CURVES

The revised edition of *Bulletin 125*, published in 1967, contains four additional curves that were developed by Couch for his Masters of Science at Iowa State. These curves were termed the O curves because their modal age is at the origin (see Figure 4). For this curve family, the mode and dispersion are directly related, i.e., the higher the mode, the greater the dispersion.

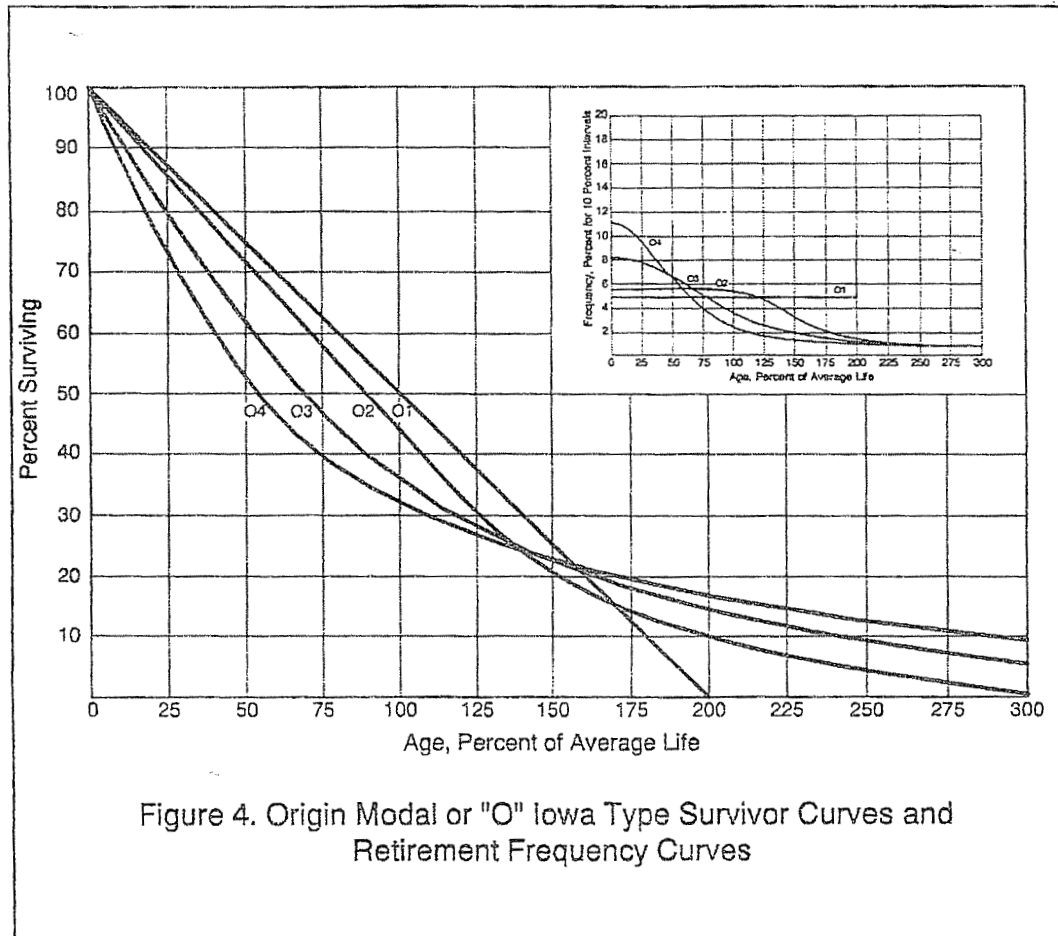


Figure 4. Origin Modal or "O" Iowa Type Survivor Curves and Retirement Frequency Curves

Source: Gannett Fleming.