



MISSOURI GAS ENERGY

3420 Broadway • Kansas City, MO • 64111-2404 • (816) 360-5755

ROBERT J. HACK

Vice President, Pricing & Regulatory Affairs

December 3, 2003

Mr. Dale Hardy Roberts
Secretary/Chief Regulatory Law Judge
Missouri Public Service Commission
P.O. Box 360
Jefferson City, MO 65102

RE: Application of Missouri Gas Energy for approval to establish an infrastructure system replacement surcharge ("ISRS")

Dear Mr. Roberts:

Enclosed for filing with the Missouri Public Service Commission ("Commission") on behalf of Missouri Gas Energy ("MGE"), a division of Southern Union Company ("Southern Union"), please find in electronic format an Application and Petition for Establishment of an Infrastructure System Replacement Surcharge.

By separate cover submitted concurrently herewith, MGE is also filing a revised tariff sheet to implement the ISRS.

Thank you in advance for seeing that the enclosed is brought to the attention of the Commission and the appropriate Commission personnel. Please call if you have any questions.

Sincerely,

Robert J. Hack
by KWT

CC: Office of the Public Counsel
Office of the General Counsel
W.R. England III

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the matter of the application of Missouri Gas Energy, a division of Southern Union Company, for approval to establish an infrastructure system replacement surcharge.) Case No. GR-2004-_____)))

**APPLICATION AND PETITION FOR ESTABLISHMENT OF AN
INFRASTRUCTURE SYSTEM REPLACEMENT SURCHARGE**

COMES NOW Missouri Gas Energy (“MGE”), a division of Southern Union Company, by and through counsel, pursuant to Sections 393.1009, 393.1012 and 393.1015 RSMo; and 4 CSR 240-2.060(1), and for its Application and Petition respectfully states as follows to the Missouri Public Service Commission (the “Commission”):

BACKGROUND

1. On August 28, 2003, three new Missouri statutory sections became effective in Chapter 393 RSMo. These new sections, 393.1009, 393.1012 and 393.1015, provide eligible gas corporations with the ability to recover certain infrastructure system replacement costs outside of a formal rate case filing via the implementation of an Infrastructure System Replacement Surcharge (“ISRS”). Prior to implementing an ISRS, a petition must be filed with the Commission for review and approval before an adjustment can be made to a gas corporation’s rates and charges to provide for the recovery of the costs associated with eligible infrastructure system replacements.

THE APPLICANT

2. MGE is a division of Southern Union Company which is duly incorporated under the laws of the State of Delaware and conducts business in Missouri under the fictitious name of Missouri Gas Energy. MGE’s principal office and place of

business is located at 3420 Broadway, Kansas City, Missouri 64111. A copy of a certificate from the Missouri Secretary of State that Southern Union Company is authorized to do business in Missouri as a foreign corporation was submitted in Case No. GM-2003-0238 and is incorporated herein by reference. A copy of a certificate from the Missouri Secretary of State that Missouri Gas Energy is a registered fictitious name of Southern Union Company was submitted in Case No. GM-2003-0238 and is incorporated herein by reference. Other than cases that have been docketed at the Commission, MGE has no pending action or final unsatisfied judgments against it from any state or federal agency or court within the past three (3) years that involve customer service. MGE has no annual report or assessment fees that are overdue. MGE currently conducts business as a "gas corporation" and provides natural gas service to approximately 500,000 customers in the Missouri counties of Andrew, Barry, Barton, Bates, Buchanan, Carroll, Cass, Cedar, Christian, Clay, Clinton, Dade, Dekalb, Greene, Henry, Howard, Jackson, Jasper, Johnson, Lafayette, Lawrence, McDonald, Moniteau, Pettis, Platte, Ray, Saline, Stone, and Vernon, subject to the jurisdiction of the Missouri Public Service Commission as provided by law. MGE currently has a general rate case pending before the Commission (Case No. GR-2004-0209).

3. Communications in regard to this Application should be addressed to:

Robert J. Hack
Vice President, Pricing and Regulatory Affairs
Missouri Gas Energy
3420 Broadway
Kansas City, Missouri 64111
816-360-5755
Fax: 816-360-5536
E-mail: rhack@mgeemail.com

William R. England, Attorney
Dean L. Cooper, Attorney
Brydon, Swearengen & England P.C.
312 East Capitol
P.O. Box 456
Jefferson City, MO 65102
573-635-7166
573-635-3847
E-mail: dcooper@brydonlaw.com

THE ISRS REQUEST

4. MGEG, per this application, requests an adjustment to its rates and charges through the implementation of an ISRS rate schedule to provide for the recovery of costs for infrastructure system replacements and relocations eligible for ISRS recognition. In accordance with the provisions of sections 393.1009, 393.1012 and 393.1015 RSMo, the proposed ISRS rate schedule should reflect the appropriate pre-tax ISRS revenues necessary to produce net operating income equal to MGEG's weighted cost of capital multiplied by the net original cost of the requested infrastructure replacements which are eligible for the ISRS, including recognition of accumulated deferred income taxes and accumulated depreciation associated with the aforesaid infrastructure system replacements. MGEG also seeks to recover all state, federal and local income or excise taxes applicable to such ISRS income and to recover all other ISRS costs such as depreciation expense, and property taxes due within 12 months of this filing.

5. The infrastructure system replacements for which MGEG seeks ISRS recognition are set forth on Appendix "A", which is attached hereto and made a part hereof for all purposes. The infrastructure system replacements listed on Appendix "A" are eligible gas utility plant projects in that they are either: a) mains, valves, service lines, regulator stations, vaults, and other pipeline system components installed to comply with

state or federal safety requirements as replacements for existing facilities that have worn out or are in deteriorated condition; or, b) main relining projects, service line insertion projects, joint encapsulation projects, and other similar projects extending the useful life, or enhancing the integrity of pipeline system components undertaken to comply with state or federal safety requirements; or, c) unreimbursed infrastructure facility relocations due to the construction or improvement of a highway, road, street, public way or other public work required by or on behalf of the United States, the State of Missouri, a political subdivision of the State of Missouri, or another entity having the power of eminent domain.

6. The infrastructure system replacements listed on Appendix "A" are eligible for ISRS treatment as they are gas utility plant projects that: a) did not increase revenues by directly connecting to new customers; b) currently are in service and used and useful; c) were not included in MGЕ's rate base in its most recently completed general rate case; and, d) replaced and/or extended the useful life of existing infrastructure.

7. MGЕ had its last general rate proceeding decided by Commission Order issued on July 5, 2001, effective August 6, 2001 in Case No. GR-2001-292. As stated previously, MGЕ has a new general rate proceeding pending with the Commission, said proceeding having been filed on November 4, 2003.

8. This Application is MGЕ's initial petition for the establishment of an ISRS.

RATE SCHEDULES AND SUPPORTING DOCUMENTATION

9. Attached hereto as Appendix "B" is the rate schedule, with supporting documents, proposed by MGE in order to establish the ISRS and to provide for the adjustment of its rates and charges to reflect recovery of eligible infrastructure costs. This proposed rate schedule, on an annualized basis, will produce ISRS revenues of at least one million dollars, but not in excess of ten percent of MGE's base revenue level as approved by the Commission in its most recently completed general rate proceeding.

10. In determining the appropriate pre-tax ISRS revenues, the proposed rate schedule utilizes current state and federal income tax rates through a combined income tax rate conversion factor of 1.6298.

11. In determining the appropriate pre-tax ISRS revenues, the proposed rate schedule utilizes the average regulatory capital structure as presented in the testimony of various cost of capital witnesses in MGE's most recently completed general rate proceeding (Case No. GR-2001-292) and reflects an overall rate of return of 9.47%, which is the average overall rate of return as recommended by the various cost of capital witnesses in MGE's most recently completed general rate proceeding.

12. In determining the appropriate pre-tax ISRS revenues, the proposed rate schedule utilizes a cost rate for debt of 5.84% which is the average of the debt cost recommendations contained in the testimony of various cost of capital witnesses in MGE's most recently completed general rate proceeding.

13. In determining the appropriate pre-tax ISRS revenues, the proposed rate schedule utilizes a cost of common equity of 10.97% which is the average of the cost of

equity recommendations contained in the testimony of the various cost of capital witnesses in MGE's most recently completed general rate proceeding.

14. In determining the appropriate pre-tax ISRS revenues, the proposed rate schedule utilizes a current composite property tax rate of 1.17165% for the aforelisted eligible infrastructure system replacements.

15. In determining the appropriate pre-tax ISRS revenues, the proposed rate schedule utilizes depreciation rates currently applicable to the aforelisted eligible infrastructure system replacements as approved by the Commission for MGE in its most recently completed general rate proceeding.

16. As an alternative to the average values for overall rate of return, capital structure, cost of debt, and return on equity drawn from the testimony in MGE's most recently completed general rate proceeding, Case No. GR-2001-292, as shown in paragraphs 11, 12 and 13 above, MGE hereby states that it is agreeable to using the values for such items implicit in the Stipulation and Agreement approved by the Commission with regard to MGE in that case, such values being a 9.03% overall rate of return based upon a 10.50% return on equity. These were the values for such items implicit in the Stipulation and Agreement approved by the Commission with regard to MGE in that case, as can be seen by reviewing the final Staff Accounting Schedules (dated June 22, 2001), Staff Suggestions in Support of Second Revised Stipulation and Agreement (filed June 28, 2001), and Supplemental Testimony in support of Revenue Requirement of Steve M. Traxler. Attached hereto as Appendix "C" is an alternative rate schedule, with supporting documents, calculated on the basis of the above values implicit in the Stipulation and Agreement approved by the Commission in MGE's most recently

completed general rate case. This alternative rate schedule, on an annualized basis, would also produce ISRS revenues of at least one million dollars, but not in excess of ten percent of MGE's base revenue level as approved by the Commission in its most recently completed general rate proceeding.

17. In determining the appropriate monthly ISRS charge, the proposed rate schedule is based on a reasonable estimate of billing units in the period in which the charge will be in effect, which is derived by dividing the appropriate pre tax revenues, as calculated above, by the customer numbers reported by MGE in the annual report it filed with the Commission on or about April 15, 2003 and then further dividing this quotient by twelve. Although not recommended by MGE, the Commission has some discretion to vary the ISRS rate element by customer class under the provisions of section 393.1015.5(1); the ISRS rate elements by customer class calculated on this basis to yield appropriate pre-tax revenues per Appendix B are shown in page 7 of Appendix B. The ISRS rate elements by customer class calculated on this basis to yield appropriate pre-tax revenues per Appendix C are shown in page 7 of Appendix C.

ADDITIONAL INFORMATION

18. MGE will provide an initial (one-time) informational brochure, by way of bill insert, to be distributed to its customers with the initial bills containing the Infrastructure System Replacement Surcharge (ISRS). Thereafter, MGE will provide periodic informational brochures, also by way of bill insert, to be distributed to its customers with bills containing changes to the ISRS amount.

19. MGE will post information on its website to inform customers of the ISRS. The information on this page of the website will reflect information provided in

the bill inserts to be developed at a future date. The ISRS information will be posted to
MGE's website upon the ISRS charge appearing on customer bills.

20. The Company will provide the Public Service Commission with a copy of
the talking points and information distributed to its customer contact center. This
information will be distributed approximately two weeks prior to the charges appearing
on customer billing statements.

WHEREFORE, pursuant to 393.1015.2(3) Applicant respectfully requests the
Commission to issue an Order—and approve any implementing tariff sheets—bearing an
effective date of no later than April 1, 2004 authorizing:

- (a) The Applicant to recover the costs of eligible infrastructure system
replacements (as listed on Appendix "A") per the establishment and
recognition of an ISRS. This ISRS recognition to be accomplished via a
rate element to be charged in addition to MGE's other rates and charges
by reflecting the appropriate pre-tax ISRS revenues necessary to produce
net operating income equal to MGE's weighted cost of capital multiplied
by the net original cost of the requested infrastructure replacements which
are eligible for the ISRS, including recognition of accumulated deferred
income taxes and accumulated depreciation associated with the aforesaid
infrastructure system replacements; and,

- (b) Granting such other relief as may be necessary and appropriate to accomplish the purposes of 393.1009 through 393.1015.

Respectfully Submitted,

Robert J. Hack
Robert J. Hack #36496
3420 Broadway
Kansas City, MO 64111
(816) 360-5755
(314) 369-5536 (fax)
E-Mail: rhack@mgeemail.com

W. R. England III by RGN
William R. England III #23975
Dean L. Cooper #36592
Brydon, Swearengen & England P.C.
312 E. Capitol Avenue
P. O. Box 456
Jefferson City, MO 65102-0456
(573) 635-7166
(573) 635-0427 (fax)
E-Mail: dcooper@brydonlaw.com

ATTORNEYS FOR MISSOURI GAS ENERGY, A DIVISION OF SOUTHERN UNION COMPANY

VERIFICATION

STATE OF MISSOURI)
)
 ss
COUNTY OF JACKSON)

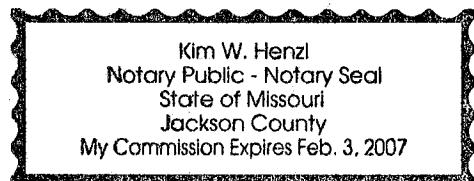
I, Michael R. Noack, of lawful age, state: that I am Director of Pricing and Regulatory Affairs for Missouri Gas Energy, a division of Southern Union Company; that I have read the above and foregoing document; that the statements contained therein are true and correct to the best of my information, knowledge and belief; and, that I am authorized to make this statement on behalf of Missouri Gas Energy.

Michael R. Noack

Subscribed and sworn to before me this 2nd day of December, 2003.

Kim W. Henzl
Notary Public

My Commission Expires: Feb 3, 2007.



Certificate of Service

I hereby certify that two, true and correct copies of the above and foregoing document was sent by U.S. Mail, postage prepaid, or hand delivered on this 3d day of December, 2003, to:

General Counsel
Missouri Public Service Commission
Governor Office Building
P.O. Box 360
Jefferson City, MO 65102

The Office of the Public Counsel
Governor Office Building, 6th Floor
P.O. Box 7800
Jefferson City, MO 65102-7800

Robert H. H.

Missouri Gas Energy
Eligible ISRS Plant Additions and Retirements
July 2001 - September 2003

23833	REPL 1910-4"PL MAIN RET PBS		394	12/1/2001	58,006.98	22	0.0018925	2,415.12
24051	REPL 105-2"PL MAIN RET PBS				1,523.36	22	0.0018925	63.43
					413,318.12			
					18,216.73			9,386.45

Missouri Gas Energy
Eligible ISRS Plant Additions and Retirements
July 2001 - September 2003

		10/03/2002	1,060,52	12	0.0018925	24,08	24,08
35055	RELOC 16-2"TF STEEL MAIN RET PCS			12	0.0018925	139.18	139.18
35076	RELOC 55-4"TF STEEL MAIN RET CS			12	0.0018925	6,288.15	6,859.80
12465	RELOC 2000-8"TF STEEL MAIN RET PBS		389	11/07/2002	302,960.56	11	0.0018925
23328	RELOC 31-4"TF STEEL MAIN RET PBS		389	11/07/2002	5,420.36	11	0.0018925
23403	RELOC 26-2"TF STEEL MAIN RET PBS		389	11/07/2002	3,375.32	11	0.0018925
24723	LAY 545-2"PL MAIN RET PCS			11	0.0018925	5,28.47	576.52
24726	REPL 60-6"PL MAIN RET PL			11	0.0018925	38.22	39.51
34311	RELOC 14-4"PL MAIN			11	0.0018925	129.82	141.62
34312	RELOC 14-4"PL MAIN			11	0.0018925	45.32	49.44
34313	RELOC 500-4"PL MAIN RET PL			11	0.0018925	172.14	187.79
34760	RELOC 25-2"SERVICE - PAVESTONE			11	0.0018925	32.50	35.46
34761	RELOC 25-2"TF STEEL MAIN RET PCS			11	0.0018925	71.58	78.09
34762	RELOC 25-4"TF STEEL MAIN RET PCS			11	0.0018925	197.58	215.54
34841	REPL 500-2"PL MAIN RET PBS			11	0.0018925	410.21	447.51
34844	REPL 750-4"PL MAIN RET PBS			11	0.0018925	41.28	45.03
34924	REPL 75-2"PL MAIN RET PUPBS			11	0.0018925	223.35	243.65
35124	REPL 50-8"TF STEEL MAIN RET 8'CI			11	0.0018925	78.09	85.19
35669	RELOC 100-4"PL MAIN RET PL			11	0.0018925	523.07	627.68
12463	RELOC 24-37-2PL & 45-4"PL MAIN RET PBS/PCS		389	12/09/2002	27,639.05	10	0.0018925
23968	RELOC 30-4"PL MAIN RET PCS			10	0.0018925	102.81	123.37
23968	RELOC 230-2"PL MAIN RET PL		388	12/09/2002	5,432.40	10	0.0018925
34850	REPL 680-2"PL MAIN RET PBS/PL			10	0.0018925	149.11	178.93
35015	RELOC 346-12"TF STEEL MAIN RET PCS			10	0.0018925	319.04	382.85
35052	INMAN SO IMPROVE RELOC RET PCS/PBS			10	0.0018925	446.48	535.78
35091	REPL 685-2"PL MAIN RET PBS/PCS			10	0.0018925	1,176.44	1,411.72
35107	RELOC 20-2"TF STEEL MAIN RET PBS			10	0.0018925	6,642.08	150.86
35129	RELOC 161-2"PL MAIN RET			10	0.0018925	95.73	114.38
						189.33	
<u>2,146,580.09</u>							
					<u>60,433.36</u>		<u>48,837.48</u>

Appendix A

Missouri Gas Energy
Eligible ISRS Plant Additions and Retirements
July 2001 - September 2003

SLRP Encapsulation Projects						
Description	Date in Service	Investment	Mo	Depr	Accum	Depr
	Acct Year	Acct Period	Amount	No	Mo Rate	Depr Expense
Encapsulation Cast Iron Joints	2002	1 \$ 68,547.35	27	0.0018925	\$ 3,502.50	1,556.71
Encapsulation Cast Iron Joints	2002	2 \$ 190,241.96	26	0.0018925	\$ 9,360.86	4,320.39
Encapsulation Cast Iron Joints	2002	3 \$ 153,117.99	25	0.0018925	\$ 7,244.39	3,477.31
		\$ 411,907.30			\$ 20,107.85	\$ 9,354.41
Encapsulation Cast Iron Joints	2002	4 \$ 234,296.55	24	0.0018925	\$ 10,641.75	5,320.87
Encapsulation Cast Iron Joints	2002	5 \$ 193,359.28	23	0.0018925	\$ 8,416.45	4,391.19
Encapsulation Cast Iron Joints	2002	6 \$ 155,762.14	22	0.0018925	\$ 6,526.79	3,560.07
		\$ 584,417.97			\$ 25,584.99	\$ 13,272.13
Encapsulation Cast Iron Joints	2002	7 \$ 205,766.85	21	0.0018925	\$ 8,177.69	4,672.97

Total SLRP Meter / Regulator Loop Rebuilds

\$ 529,751.40

\$ 15,396.67 **\$ 15,150.68**

Missouri Gas Energy
Eligible ISRS Plant Additions and Retirements
July 2001 - September 2003

<u>SLRP Blanket Work Order Service Lines</u>						
Description	Date in Service	Investment	Depr.	Accum.	Depr.	
	Acct Year	Acct Period	Amount	No	No Rate	Expense
Material charges only - unprotected steel/copper services - less than 2"	2002	\$ 6,817.94	27	0.0018933	\$ 348.53	\$ 154.90
Material charges only - unprotected steel/copper services - less than 2"	2002	\$ 804.97	27	0.0018933	\$ 41.15	\$ 18.29
Rep block by block planned unprotected steel/copper service	2002	\$ 205,938.07	27	0.0018933	\$ 10,527.37	\$ 4,678.83
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 1,941.41	27	0.0018933	\$ (1,441.27)	\$ (640.57)
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 2,507.22	27	0.0018933	\$ 128.17	\$ 56.95
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 77,468.75	27	0.0018933	\$ 3,980.13	\$ 1,760.06
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 858.83	27	0.0018933	\$ (43.90)	\$ (19.51)
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 384.19	27	0.0018933	\$ 19.64	\$ 8.73
Rep single unprotected steel/copper service - less than 2"	2002	\$ (15,218.45)	27	0.0018933	\$ (777.95)	\$ (345.76)
Rep single unprotected steel/copper service - less than 2"	2002	\$ 57,394.02	27	0.0018933	\$ 2,959.49	\$ 1,315.33
Rep single unprotected steel/copper service - less than 2"	2002	\$ (112,00)	27	0.0018933	\$ (5,73)	\$ (2.54)
Material charges only - unprotected steel/copper services - less than 2"	2002	\$ 10,709.69	26	0.0018933	\$ 527.19	\$ 243.32
Material charges only - unprotected steel/copper services - less than 2"	2002	\$ 3,128.44	26	0.0018933	\$ 154.00	\$ 71.08
Material charges only - unprotected steel/copper services - less than 2"	2002	\$ 62.42	26	0.0018933	\$ 3.07	\$ 1.42
Rep block by block planned unprotected steel/copper service	2002	\$ 263,975.70	26	0.0018933	\$ 12,994.42	\$ 5,997.42
Rep block by block planned unprotected steel/copper service	2002	\$ (509.49)	26	0.0018933	\$ (25.08)	\$ (11.56)
Rep block by block planned unprotected steel/copper service	2002	\$ 56,417.64	26	0.0018933	\$ 2,777.20	\$ 1,281.79
Rep planned unprotected steel/copper service - less than 2"	2002	\$ (40,50)	26	0.0018933	\$ (1.99)	\$ (0.92)
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 10,405.47	26	0.0018933	\$ 515.17	\$ 237.77
Rep single unprotected steel/copper service - less than 2"	2002	\$ 42,824.18	26	0.0018933	\$ 2,108.05	\$ 972.95

Total SLRP Encapsulation Projects

\$ 3,653,504.78

\$ 100,697.35 **\$ 82,971.09**

Missouri Gas Energy
Eligible ISRS Plant Additions and Retirements
July 2001 - September 2003

Rep/ single unprotected steel/copper service - less than 2"	2002	2	\$ 11,032.43	26	0.0018933	\$ 542.39	\$ 250.43
Rep/ single unprotected steel/copper service - less than 2"	2002	2	\$ (168.48)	26	0.0018933	\$ (8.29)	\$ (3.83)
Material charges only - unprotected steel/copper services - les	2002	3	\$ 2,813.94	25	0.0018933	\$ 133.19	\$ 63.93
Material charges only - unprotected steel/copper services - les	2002	3	\$ 8,995.10	25	0.0018933	\$ 425.76	\$ 204.37
Rep/ block by block planned unprotected steel/copper service	2002	3	\$ 294,350.24	25	0.0018933	\$ 13,934.23	\$ 6,688.43
Rep/ block by block planned unprotected steel/copper service	2002	3	\$ 237.34	25	0.0018933	\$ 11.23	\$ 5.39
Rep/ planned unprotected steel/copper service - less than 2"	2002	3	\$ 49,982.24	25	0.0018933	\$ 2,386.26	\$ 1,135.80
Rep/ planned unprotected steel/copper service - less than 2"	2002	3	\$ (491.26)	25	0.0018933	\$ (23.25)	\$ (11.16)
Rep/ planned unprotected steel/copper service - less than 2"	2002	3	\$ 10,392.42	25	0.0018933	\$ 491.90	\$ 236.11
Rep/ planned unprotected steel/copper service - less than 2"	2002	3	\$ (507.87)	25	0.0018933	\$ (24.04)	\$ (11.54)
Rep/ single unprotected steel/cooper service - less than 2"	2002	3	\$ 39,630.83	25	0.0018933	\$ 1,875.83	\$ 900.40
Rep/ single unprotected steel/cooper service - less than 2"	2002	3	\$ 4,945.29	25	0.0018933	\$ 234.07	\$ 112.36
Rep/ single unprotected steel/cooper service - less than 2"	Total Pre 9/11	5	\$ 1,115,717.26		\$ 54,727.13	\$ 25,348.65	
Material charges only - unprotected steel/copper services - les	2002	4	\$ 17,691.60	24	0.0018933	\$ 803.89	\$ 401.95
Material charges only - unprotected steel/copper services - les	2002	4	\$ 14,795.16	24	0.0018933	\$ 672.28	\$ 336.14
Rep/ block by block planned unprotected steel/copper service	2002	4	\$ 27,549.27	24	0.0018933	\$ 1,251.82	\$ 623.91
Rep/ planned unprotected steel/copper service - less than 2"	2002	4	\$ 71,266.85	24	0.0018933	\$ 3,238.31	\$ 1,619.15
Rep/ planned unprotected steel/copper service - less than 2"	2002	4	\$ (806.38)	24	0.0018933	\$ (36.54)	\$ (18.32)
Rep/ planned unprotected steel/copper service - less than 2"	2002	4	\$ 38,447.35	24	0.0018933	\$ 1,474.02	\$ 873.51
Rep/ planned unprotected steel/copper service - less than 2"	2002	4	\$ 72,056.55	24	0.0018933	\$ 3,274.28	\$ 1,637.14
Rep/ single unprotected steel/cooper service - less than 2"	2002	4	\$ 4,170.11	24	0.0018933	\$ 189.49	\$ 94.74
Rep/ single unprotected steel/cooper service - less than 2"	2002	5	\$ 12,805.57	23	0.0018933	\$ 557.63	\$ 290.94
Material charges only - unprotected steel/copper services - les	2002	5	\$ 9,271.57	23	0.0018933	\$ 403.74	\$ 210.65
Material charges only - unprotected steel/copper services - les	2002	5	\$ 12,073.41	23	0.0018933	\$ 525.75	\$ 274.30
Rep/ block by block planned unprotected steel/copper service	2002	5	\$ 5,40	23	0.0018933	\$ 0.24	\$ 0.12
Rep/ block by block planned unprotected steel/copper service	2002	5	\$ 55,087.91	23	0.0018933	\$ 2,834.31	\$ 1,478.77
Rep/ planned unprotected steel/copper service - less than 2"	2002	5	\$ (428.49)	23	0.0018933	\$ (18.56)	\$ (9.41)
Rep/ planned unprotected steel/copper service - less than 2"	2002	5	\$ 44,578.43	23	0.0018933	\$ 1,941.21	\$ 1,012.80
Rep/ planned unprotected steel/copper service - less than 2"	2002	5	\$ 33,117.87	23	0.0018933	\$ 1,442.15	\$ 752.42
Rep/ single unprotected steel/cooper service - less than 2"	2002	5	\$ 10,764.49	23	0.0018933	\$ 468.75	\$ 244.55
Rep/ single unprotected steel/cooper service - less than 2"	2002	6	\$ 9,966.61	22	0.0018933	\$ 475.14	\$ 226.44
Rep/ planned unprotected steel/copper service - less than 2"	2002	6	\$ 11,048.66	22	0.0018933	\$ 460.21	\$ 251.02
Material charges only - unprotected steel/copper services - les	2002	6	\$ 7,081.37	22	0.0018933	\$ 294.96	\$ 160.89
Rep/ block by block planned unprotected steel/copper service	2002	6	\$ 62,055.49	22	0.0018933	\$ 2,584.77	\$ 1,409.88
Rep/ planned unprotected steel/copper service - less than 2"	2002	6	\$ (84.24)	22	0.0018933	\$ (3.51)	\$ (1.91)
Rep/ planned unprotected steel/copper service - less than 2"	2002	6	\$ 11,123.76	22	0.0018933	\$ 483.33	\$ 252.73
Rep/ planned unprotected steel/copper service - less than 2"	2002	6	\$ 53,388.82	22	0.0018933	\$ 2,244.61	\$ 1,224.33
Rep/ single unprotected steel/cooper service - less than 2"	2002	6	\$ (140.00)	22	0.0018933	\$ (5.83)	\$ (3.12)
Rep/ single unprotected steel/cooper service - less than 2"	2002	6	\$ 1,871.31	22	0.0018933	\$ 77.94	\$ 42.52
Rep/ single unprotected steel/cooper service - less than 2"		5	\$ 589,260.45		\$ 25,827.17	\$ 13,387.76	
Material charges only - unprotected steel/copper services - les	2002	7	\$ 20,301.59	21	0.0018933	\$ 807.18	\$ 461.24
Material charges only - unprotected steel/copper services - les	2002	7	\$ 9,108.80	21	0.0018933	\$ 362.16	\$ 206.95
Rep/ block by block planned unprotected steel/copper service	2002	7	\$ 6,941.25	21	0.0018933	\$ 275.98	\$ 157.70
Rep/ block by block planned unprotected steel/copper service	2002	7	\$ (329.67)	21	0.0018933	\$ (13.11)	\$ (7.49)
Rep/ planned unprotected steel/copper service - less than 2"	2002	7	\$ 97,343.82	21	0.0018933	\$ 3,870.32	\$ 2,211.61
Rep/ planned unprotected steel/copper service - less than 2"	2002	7	\$ 19,353.06	21	0.0018933	\$ 769.86	\$ 439.92
Rep/ single unprotected steel/cooper service - less than 2"	2002	7	\$ 44,527.87	21	0.0018933	\$ 1,770.40	\$ 1,011.6
Material charges only - unprotected steel/copper services - les	2002	8	\$ 16,071.96	20	0.0018933	\$ 606.58	\$ 365.15
Material charges only - unprotected steel/copper services - les	2002	8	\$ 12,673.60	20	0.0018933	\$ 479.90	\$ 287.94
Rep/ planned unprotected steel/copper service - less than 2"	2002	8	\$ 64,027.46	20	0.0018933	\$ 2,424.46	\$ 1,454.58
Rep/ planned unprotected steel/copper service - less than 2"	2002	8	\$ 21,020.78	20	0.0018933	\$ 795.97	\$ 477.58

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Rep single unprotected steel/copper service - less than 2"	2002	\$ 8	\$ 21,781.95	20	\$ 0.0018933	\$ 824.80	\$ 494.80
Material charges only - unprotected steel/copper services - les*	2002	\$ 9	\$ 29,135.54	19	\$ 0.0018933	\$ 1,048.08	\$ 661.95
Material charges only - unprotected steel/copper services - les*	2002	\$ 9	\$ (5,820.32)	19	\$ 0.0018933	\$ (299.37)	\$ (132.24)
Rep block by block planned unprotected steel/copper service	2002	\$ 9	\$ 207.27	19	\$ 0.0018933	\$ 7.46	\$ 4.71
Rep block by block planned unprotected steel/copper service	2002	\$ 9	\$ 30,060.35	19	\$ 0.0018933	\$ 1,081.35	\$ 662.96
Rep block by block planned unprotected steel/copper service	2002	\$ 9	\$ 659.34	19	\$ 0.0018933	\$ 23.72	\$ 14.98
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 9	\$ 64,817.27	19	\$ 0.0018933	\$ 2,331.65	\$ 1,472.62
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 9	\$ (403.17)	19	\$ 0.0018933	\$ (14.50)	\$ (9.16)
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 9	\$ 31,201.63	19	\$ 0.0018933	\$ 1,122.41	\$ 708.89
Rep single unprotected steel/copper service - less than 2"	2002	\$ 9	\$ 50,160.86	19	\$ 0.0018933	\$ 1,804.42	\$ 1,139.63
Rep single unprotected steel/copper service - less than 2"	2002	\$ 9	\$ 2,797.87	19	\$ 0.0018933	\$ 100.65	\$ 63.57
Rep single unprotected steel/copper service - less than 2"	2002	\$ 10	\$ 14,306.06	18	\$ 0.0018933	\$ 504.58	\$ 336.39
Material charges only - unprotected steel/copper services - les*	2002	\$ 10	\$ 1,150.96	18	\$ 0.0018933	\$ 39.22	\$ 26.15
Material charges only - unprotected steel/copper services - les*	2002	\$ 10	\$ 17,552.51	18	\$ 0.0018933	\$ 599.20	\$ 399.47
Rep block by block planned unprotected steel/copper service	2002	\$ 10	\$ 10,414.58	18	\$ 0.0018933	\$ 354.92	\$ 236.62
Rep block by block planned unprotected steel/copper service	2002	\$ 10	\$ 158,980.97	18	\$ 0.0018933	\$ 5,417.29	\$ 3,611.53
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 10	\$ (46.17)	18	\$ 0.0018933	\$ (1.57)	\$ (1.05)
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 10	\$ 32,645.89	18	\$ 0.0018933	\$ 1,112.55	\$ 741.70
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 10	\$ 58,220.79	18	\$ 0.0018933	\$ 1,984.13	\$ 1,322.75
Rep single unprotected steel/copper service - less than 2"	2002	\$ 10	\$ (703.89)	18	\$ 0.0018933	\$ (23.90)	\$ (15.99)
Rep single unprotected steel/copper service - less than 2"	2002	\$ 10	\$ 6,331.80	18	\$ 0.0018933	\$ 215.78	\$ 143.86
Rep single unprotected steel/copper service - less than 2"	2002	\$ 11	\$ 10,429.49	17	\$ 0.0018933	\$ 335.70	\$ 236.96
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 11	\$ 318.45	17	\$ 0.0018933	\$ 10.25	\$ 7.24
Rep single unprotected steel/copper service - less than 2"	2002	\$ 11	\$ 10,514.18	17	\$ 0.0018933	\$ 338.41	\$ 238.88
Rep single unprotected steel/copper service - less than 2"	2002	\$ 11	\$ 158,482.78	17	\$ 0.0018933	\$ 5,100.30	\$ 3,600.21
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 11	\$ (38.07)	17	\$ 0.0018933	\$ (1.23)	\$ (0.86)
Rep single unprotected steel/copper service - less than 2"	2002	\$ 11	\$ 28,233.30	17	\$ 0.0018933	\$ 908.72	\$ 641.45
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 11	\$ 62,366.96	17	\$ 0.0018933	\$ 2,007.35	\$ 1,416.95
Rep block by block planned unprotected steel/copper service	2002	\$ 11	\$ 2,232.94	17	\$ 0.0018933	\$ 71.87	\$ 50.73
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 11	\$ (28.16)	17	\$ 0.0018933	\$ (0.94)	\$ (0.66)
Rep single unprotected steel/copper service - less than 2"	2002	\$ 12	\$ 5,936.80	16	\$ 0.0018933	\$ 179.84	\$ 134.38
Material charges only - unprotected steel/copper services - les*	2002	\$ 12	\$ 1,192.60	16	\$ 0.0018933	\$ 36.13	\$ 27.10
Rep planned unprotected steel/copper services - les*	2002	\$ 12	\$ 18,379.14	16	\$ 0.0018933	\$ 556.76	\$ 417.57
Rep single unprotected steel/copper service - less than 2"	2002	\$ 12	\$ 104,670.67	16	\$ 0.0018933	\$ 3,170.77	\$ 2,378.08
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 12	\$ 5,488.72	16	\$ 0.0018933	\$ 168.27	\$ 124.70
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 12	\$ 46,828.78	16	\$ 0.0018933	\$ 1,418.57	\$ 1,063.93
Rep single unprotected steel/copper service - less than 2"	2002	\$ 12	\$ 6,941.18	16	\$ 0.0018933	\$ 210.29	\$ 157.71
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 12	\$ 46,828.47	16	\$ 0.0018933	\$ 1,418.57	\$ 1,063.92
Rep single unprotected steel/copper service - less than 2"	2002	\$ 12	\$ (21.54)	16	\$ 0.0018933	\$ (0.83)	\$ (0.63)
Rep single unprotected steel/copper service - less than 2"	2002	\$ 12	\$ (524.48)	16	\$ 0.0018933	\$ (15.89)	\$ (11.92)
Rep planned unprotected steel/copper service - less than 2"	2002	\$ 12	\$ 6,470.91	16	\$ 0.0018933	\$ 196.02	\$ 147.02
Rep single unprotected steel/copper service - less than 2"	2002	\$ 12	\$ 12,302.85	15	\$ 0.0018933	\$ 349.39	\$ 279.51
Material charges only - unprotected steel/copper services - les*	2003	\$ 1	\$ 11,969.65	15	\$ 0.0018933	\$ 339.93	\$ 271.95
Material charges only - unprotected steel/copper services - les*	2003	\$ 1	\$ 16,481.20	15	\$ 0.0018933	\$ 488.06	\$ 374.45
Rep block by block planned unprotected steel/copper service	2003	\$ 1	\$ 111,074.25	15	\$ 0.0018933	\$ 3,154.45	\$ 2,523.55
Rep single unprotected steel/copper service - less than 2"	2003	\$ 1	\$ (175.77)	15	\$ 0.0018933	\$ (4.99)	\$ (3.99)
Rep planned unprotected steel/copper service - less than 2"	2003	\$ 1	\$ 18,151.77	15	\$ 0.0018933	\$ 515.50	\$ 412.40
Rep single unprotected steel/copper service - less than 2"	2003	\$ 1	\$ 53,283.01	15	\$ 0.0018933	\$ 1,513.21	\$ 1,210.57
Rep single unprotected steel/copper service - less than 2"	2003	\$ 1	\$ (24.30)	15	\$ 0.0018933	\$ (0.69)	\$ (0.55)
Rep single unprotected steel/copper service - less than 2"	2003	\$ 1	\$ 1,159.36	15	\$ 0.0018933	\$ 32.93	\$ 26.34
Rep single unprotected steel/copper service - less than 2"	2003	\$ 1	\$ 19,081.66	14	\$ 0.0018933	\$ 505.78	\$ 433.53
Material charges only - unprotected steel/copper services - les*	2003	\$ 2	\$ 25,301.03	14	\$ 0.0018933	\$ 570.63	\$ 574.83
Rep block by block planned unprotected steel/copper service	2003	\$ 2	\$ 8,762.30	14	\$ 0.0018933	\$ 232.26	\$ 199.08

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			\$	55,32		14	0.0018933	\$	1.55	\$	1.33
Repl block by block planned unprotected steel/copper service	2003		2	\$ 143,884.51		14	0.0018933	\$ 3,813.83	\$ 3,269.00	\$ (43,66)	
Repl planned unprotected steel/copper service - less than 2"	2003		2	\$ (1,922.42)		14	0.0018933	\$ (30,96)	\$ 935.86		
Repl planned unprotected steel/copper service - less than 2"	2003		2	\$ 41,191.63		14	0.0018933	\$ 1,091.83		\$ 1,371.63	
Repl single unprotected steel/cooper service - less than 2"	2003		2	\$ 60,371.97		14	0.0018933	\$ 1,600.23			\$ 117.58
Repl single unprotected steel/cooper service - less than 2"	2003		2	\$ 5,175.37		14	0.0018933	\$ 137.18			\$ 347.71
Material charges only - unprotected steel/copper services - les	2003		3	\$ 15,304.36		13	0.0018933	\$ 376.68			
Material charges only - unprotected steel/copper services - les	2003		3	\$ 24,593.97		13	0.0018933	\$ 605.33		\$ 558.77	
Repl block by block planned unprotected steel/copper service	2003		3	\$ 870.85		13	0.0018933	\$ 21.43		\$ 19.79	
Repl block by block planned unprotected steel/copper service	2003		3	\$ 10,101.08		13	0.0018933	\$ 248.62		\$ 229.49	
Repl block by block planned unprotected steel/copper service	2003		3	\$ 73,023.57		13	0.0018933	\$ 1,797.32		\$ 1,659.07	
Repl planned unprotected steel/copper service - less than 2"	2003		3	\$ (629,317)		13	0.0018933	\$ (15,49)		\$ (14,30)	
Repl planned unprotected steel/copper service - less than 2"	2003		3	\$ 50,025.48		13	0.0018933	\$ 1,231.27		\$ 1,136.56	
Repl planned unprotected steel/copper service - less than 2"	2003		3	\$ 44,427.42		13	0.0018933	\$ 1,095.49		\$ 1,009.37	
Repl single unprotected steel/cooper service - less than 2"	2003		3	\$ 1,068.57		13	0.0018933	\$ 26.79		\$ 24.73	
Repl single unprotected steel/copper service - less than 2"	2003		4	\$ 10,492.64		12	0.0018933	\$ 238.39		\$ 238.39	
Material charges only - unprotected steel/copper services - les	2003		4	\$ 6,217.86		12	0.0018933	\$ 141.27		\$ 141.27	
Material charges only - unprotected steel/copper services - les	2003		4	\$ (326,57)		12	0.0018933	\$ (74.42)		\$ (74.42)	
Repl block by block planned unprotected steel/copper service	2003		4	\$ 547.69		12	0.0018933	\$ 12.44		\$ 12.44	
Repl block by block planned unprotected steel/copper service	2003		4	\$ (356,93)		12	0.0018933	\$ (8.34)		\$ (8.34)	
Repl block by block planned unprotected steel/copper service	2003		4	\$ 112,712.13		12	0.0018933	\$ 2,560.77		\$ 2,560.77	
Repl planned unprotected steel/copper service - less than 2"	2003		4	\$ (307,80)		12	0.0018933	\$ (6,99)		\$ (6,99)	
Repl planned unprotected steel/copper service - less than 2"	2003		4	\$ 36,653.23		12	0.0018933	\$ 832.75		\$ 832.75	
Repl planned unprotected steel/copper service - less than 2"	2003		4	\$ 53,128.28		12	0.0018933	\$ 1,207.05		\$ 1,207.05	
Repl single unprotected steel/copper service - less than 2"	2003		4	\$ 421.58		12	0.0018933	\$ 9.58		\$ 9.58	
Repl single unprotected steel/copper service - less than 2"	2003		5	\$ 12,643.10		11	0.0018933	\$ 263.31		\$ 287.25	
Material charges only - unprotected steel/copper services - les	2003		5	\$ 34,281.01		11	0.0018933	\$ 713.95		\$ 775.85	
Material charges only - unprotected steel/copper services - les	2003		5	\$ 5,004.77		11	0.0018933	\$ 104.23		\$ 113.71	
Repl block by block planned unprotected steel/copper service	2003		5	\$ 60,865.19		11	0.0018933	\$ 1,287.60		\$ 1,382.84	
Repl planned unprotected steel/copper service - less than 2"	2003		5	\$ (198,45)		11	0.0018933	\$ (4,13)		\$ (4,52)	
Repl planned unprotected steel/copper service - less than 2"	2003		5	\$ 32,165.37		11	0.0018933	\$ 669.90		\$ 730.80	
Repl single unprotected steel/copper service - less than 2"	2003		5	\$ 66,396.42		11	0.0018933	\$ 1,382.79		\$ 1,508.50	
Repl single unprotected steel/cooper service - less than 2"	2003		5	\$ 786.00		11	0.0018933	\$ 16.37		\$ 17.86	
Repl single unprotected steel/copper service - less than 2"	2003		5	\$ (59,94)		11	0.0018933	\$ (1,25)		\$ (1,35)	
Repl single unprotected steel/copper service - less than 2"	2003		6	\$ 12,354.81		10	0.0018933	\$ 233.91		\$ 280.70	
Material charges only - unprotected steel/copper services - les	2003		6	\$ 15,602.80		10	0.0018933	\$ 295.41		\$ 354.49	
Material charges only - unprotected steel/copper services - les	2003		6	\$ 134,67		10	0.0018933	\$ 2,55		\$ 3,06	
Repl block by block planned unprotected steel/copper service	2003		6	\$ 86,473.17		10	0.0018933	\$ 1,637.20		\$ 1,964.64	
Repl planned unprotected steel/copper service - less than 2"	2003		6	\$ 43,513.10		10	0.0018933	\$ 823.83		\$ 998.60	
Repl planned unprotected steel/copper service - less than 2"	2003		6	\$ 54,241.00		10	0.0018933	\$ 1,028.94		\$ 1,232.33	
Repl single unprotected steel/copper service - less than 2"	2003		6	\$ 3,592.90		10	0.0018933	\$ 64.24		\$ 77.09	
Repl single unprotected steel/copper service - less than 2"	2003		6	\$ 2,741,390.83				\$ 79,813.34		\$ 62,283.30	
Material charges only - unprotected steel/copper services - les	2003		7	\$ 13,419.63		9	0.0018933	\$ 224.87		\$ 299.82	
Material charges only - unprotected steel/copper services - les	2003		7	\$ 8,157.94		9	0.0018933	\$ 139.01		\$ 185.35	
Repl block by block planned unprotected steel/copper service	2003		7	\$ 51,03		9	0.0018933	\$ 0.87		\$ 1.16	
Repl planned unprotected steel/copper service - less than 2"	2003		7	\$ 60,204.44		9	0.0018933	\$ 1,025.87		\$ 1,357.82	
Repl planned unprotected steel/copper service - less than 2"	2003		7	\$ (111,78)		9	0.0018933	\$ (1,90)		\$ (2,54)	
Repl planned unprotected steel/copper service - less than 2"	2003		7	\$ 34,163.99		9	0.0018933	\$ 582.14		\$ 776.19	
Repl single unprotected steel/copper service - less than 2"	2003		7	\$ 44,892.23		9	0.0018933	\$ 764.44		\$ 1,019.25	
Repl single unprotected steel/copper service - less than 2"	2003		8	\$ 9,612.54		8	0.0018933	\$ 145.60		\$ 218.40	
Material charges only - unprotected steel/copper services - les	2003		8	\$ 29,758.81		8	0.0018933	\$ 451.34		\$ 677.02	
Material charges only - unprotected steel/copper services - les	2003		8	\$ 10,132.13		8	0.0018933	\$ 153.48		\$ 230.22	

Appendix A

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Repl single unprotected steel/copper service - less than 2"	2004	1	\$ (2,040.40)	3	0.0018933	\$ (11.59)	\$ (46.36)
Material charges only - unprotected steel/copper services - les	2004	2	\$ 12,857.64	2	0.0018933	\$ 48.69	\$ 292.12
Material charges only - unprotected steel/copper services - les	2004	2	\$ 10,570.08	2	0.0018933	\$ 40.02	\$ 240.15
Repl block by block planned unprotected steel/copper service	2004	2	\$ 29,032.71	2	0.0018933	\$ 103.94	\$ 659.61
Repl planned unprotected steel/copper service - less than 2"	2004	2	\$ 127,462.52	2	0.0018933	\$ 482.65	\$ 2,895.90
Repl planned unprotected steel/copper service - less than 2"	2004	2	\$ (50.22)	2	0.0018933	\$ (0.19)	\$ (1.14)
Repl planned unprotected steel/copper service - less than 2"	2004	2	\$ 77,311.46	2	0.0018933	\$ 292.75	\$ 1,756.49
Repl single unprotected steel/copper service - less than 2"	2004	2	\$ 66,575.86	2	0.0018933	\$ 252.10	\$ 1,512.58
Repl single unprotected steel/copper service - less than 2"	2004	2	\$ 831.83	2	0.0018933	\$ 2.39	\$ 14.35
Repl single unprotected steel/copper service - less than 2"	2004	2	\$ 40,237.48	2	0.0018933	\$ 152.36	\$ 914.18
Repl single unprotected steel/copper services - les	2004	3	\$ 13,435.72	1	0.0018933	\$ 25.44	\$ 305.25
Material charges only - unprotected steel/copper services - les	2004	3	\$ 1,184.55	1	0.0018933	\$ 2.24	\$ 26.91
Repl block by block planned unprotected steel/copper service	2004	3	\$ 19,888.71	1	0.0018933	\$ 37.86	\$ 451.86
Repl planned unprotected steel/copper service - less than 2"	2004	3	\$ 88,733.68	1	0.0018933	\$ 168.00	\$ 2,015.99
Repl planned unprotected steel/copper service - less than 2"	2004	3	\$ (811.41)	1	0.0018933	\$ (1.54)	\$ (18.43)
Repl planned unprotected steel/copper service - less than 2"	2004	3	\$ 46,053.57	1	0.0018933	\$ 87.19	\$ 1,046.32
Repl planned unprotected steel/copper service - less than 2"	2004	3	\$ 83,451.91	1	0.0018933	\$ 158.00	\$ 1,895.99
Repl single unprotected steel/copper service - less than 2"	2004	3	\$ 66,656.18	1	0.0018933	\$ 126.20	\$ 1,514.40
Repl single unprotected steel/copper service - less than 2"	2004	3	\$ 2,203,169.40		\$ 18,735.80	\$ 50,055.13	
Total SLRP Blanket Work Order Service Lines			\$ 6,649,537.94		\$ 173,803.44	\$ 151,074.84	
Grand Total Eligible ISRS Plant Additions			\$ 24,337,682.82		\$ 660,221.28	\$ 556,116.17	

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PLANT RETIREMENTS AND COST OF REMOVAL

SLRP Mains Replacement Retirements and Cost of Removal								
WO	Description	Bl.	Service Date	Ret Orig	Cost of Removal	MO	Depr Mo Rate	Accum Depr
								Depr Expense
12495	REPL 750'-4"PL MAIN RET BS	412	7/23/2001	130.20	197.28	27	0.0018925	6.65
12590	REPL 20'-4"PL MAIN RET CI	412	7/23/2001	4.41	-	27	0.0018925	0.23
12717	REPL 5'-2"TF STEEL MAIN RET PBS	394	7/23/2001	10.23	-	27	0.0018925	0.53
13213	REPL 1795'-2" 675'-4"PL & 125'-4"TF MAIN RET BS	394	7/23/2001	1,205.03	3,080.00	27	0.0018925	61.58
13359	REPL 10'-4"TF STEEL MAIN RET PBS & valve	394	7/23/2001	2.32	-	27	0.0018925	0.12
13441	REPL 6'-8"PI MAIN RET BS	394	7/23/2001	3.72	-	27	0.0018925	0.19
13571	REPL 2' SERVICE QUICK CLEAN CARMASH	396	7/23/2001	-	-	27	0.0018925	-
13596	REPL 310'-5"PL & 40'-4"PL MAIN RET PBS	394	7/23/2001	217.86	-	27	0.0018925	11.13
13597	REPL 350'-2"PL & 50'-6"TF STEEL RET PBS	394	7/23/2001	370.38	440.00	27	0.0018925	18.93
13880	REPL 100'-2"PL MAIN RET BS	394	7/23/2001	33.00	-	27	0.0018925	1.69
12688	ABANDON 18'-1"BS MAIN & 8"VALVE	394	8/14/2001	707.58	5,986.18	26	0.0018925	34.82
12703	ABANDON 20'-4"CI	412	8/14/2001	71.80	1,024.29	26	0.0018925	3.53
12706	RETIRE 4"CI & 6"PBS	412	8/14/2001	620.64	1,659.96	26	0.0018925	30.54
13654	REPL 300'-2"PL MAIN RET PBS	394	8/14/2001	575.64	-	26	0.0018925	33.24
13674	REPL 50'-2"PL MAINS RET BS	394	8/14/2001	52.50	-	26	0.0018925	2.58
13676	REPL 75'-2"PL MAIN RET BS	394	8/14/2001	52.00	-	26	0.0018925	2.56
13867	REPL 40'-3"PI MAIN RET PBS	394	8/14/2001	18.80	79.93	26	0.0018925	0.93
23682	REPL 400'-2"PL MAIN RET BS	394	8/14/2001	204.60	-	26	0.0018925	10.07
23690	RETIRE PI & STEEL MAIN	394	8/14/2001	2,005.60	377.06	26	0.0018925	98.69
13660	REPL 250'-2"PL MAIN RET PBS	394	9/07/2001	157.10	-	25	0.0018925	7.44
13864	INSERT 230'-2"PL MAIN RET 6"CI	412	9/07/2001	250.70	319.71	25	0.0018925	11.86
23445	REPL 685'-2"860'-4"PL MAIN RET PBS	394	9/07/2001	132.64	1,760.00	25	0.0018925	6.28
23677	REPL 285'-2"PL MAIN RET PBSICS	394	9/07/2001	281.85	-	25	0.0018925	13.34
23688	REPL 270'-2"PL MAIN RET PBS	394	9/07/2001	224.00	-	25	0.0018925	10.60
Total Pre 9/11				7,432.81	14,904.41		367.49	168.80

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23134	RELOC DRS #350		388	11/15/2001	1,773.25	360.92	24	0.00233833
23548	CHOUTEAU BRIDGE RIVER CROSSING RET 24"STEEL		389	11/15/2001	18,792.27	-	24	0.0018925
23820	RELOC 3000'-2"-830'-4"PL MAIN RET PBS/PCS		389	11/15/2001	6,038.55	8,974.56	24	0.0018925
23821	RELOC 4705'-4"PL MAIN RET PL		388	11/15/2001	9,745.33	-	24	0.0018925
24014	RELOC 18'-4"TF STEEL MAIN RET 10'-4"CS		388	11/15/2001	1,019.91	-	24	0.0018925
24031	RELOC 12'-2"TF STEEL MAIN RET PCS		388	11/15/2001	5.46	-	24	0.0018925
23180	RELOC 30'-2"-TF STEEL MAIN RET CS		388	12/11/2001	13.95	880.00	22	0.0018925
23181	ABAND 103'-2' MAIN		388	12/11/2001	1,354.18	1,537.57	22	0.0018925
23931	RELOC 10'-2"TF STEEL MAIN RET PBS		389	12/11/2001	3.06	-	22	0.0018925
24010	RELOC 25'-6"TF STEEL MAIN RET PBS		389	12/11/2001	332.08	2,640.00	22	0.0018925
24039	RELOC 310'-6"PL &23'-7"TF MAIN RET PCS			12/11/2001	3,738.64	3,520.00	22	0.0018925
24045	RELOC 1100'-4"PL MAIN RET PL			12/11/2001	10,189.96	-	22	0.0018925
24049	RELOC 130'-4"PL MAIN RET PL			12/11/2001	1,605.42	-	22	0.0018925
24071	REPL 40'-4"PL MAIN RET PL			12/11/2001	753.60	-	22	0.0018925
					94,286.72	28,017.41		
							4,235.22	2,151.70

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		4/04/2002	6,348,817	1,760.00	18	0.0018925	216.27	144.18	
24423	RELOC 365'-5" PBS MAIN			1,668.94	1,760.00	18	0.0018925	56.85	
24445	RELOC 260'-4" & 150'-2"PL MAIN RET PBS	4/04/2002		1,176.95	3,520.00	18	0.0018925	40.09	
24212	RELOC 215'-5"TF STEEL MAIN RET PBS			83.42	880.00	17	0.0018925	2.68	
23135	REPL 118'-2"PL MAIN RET PCS	388	5/08/2002	1,323.10	880.00	17	0.0018925	42.57	
23223	RELOC 112'-2"PL MAIN RET PL			3,187.80	-	17	0.0018925	102.56	
23816	RELOC 80'-4"PL MAIN RET PL	388	5/08/2002	513.56	39.45	17	0.0018925	16.52	
23899	REPL 535'-6"TF & 70'-4"PL MAIN RET 6"CL			5,260.68	7,640.00	17	0.0018925	169.25	
24473	RELOC 1108'-8"TF & 10'-2"PL MAIN RET PCS			83.60	-	17	0.0018925	2.69	
24618	RELOC 25'-2"TF STEEL MAIN RET PCS			1,018.40	2,200.00	16	0.0018925	30.84	
12664	RELOC 656'-2"PL & 20'-2"TF STEEL MAIN RET PCS	388	6/06/2002	1,879.82	880.00	16	0.0018925	56.92	
23108	REPL 1691'-2"PL MAIN RET PBS/PCS	389	6/06/2002	559.38	9,680.00	16	0.0018925	16.94	
23307	RELOC 250'-4"TF STEEL MAIN RET PCS	389	6/06/2002	1,317.81	867.62	16	0.0018925	39.90	
23353	ABANDON 430'-8"CI MAIN			369.75	660.00	16	0.0018925	113.33	
23356	REPL 125'-2"PL MAIN RET PLAS	388	6/06/2002	3,742.89	1,202.40	16	0.0018925	85.00	
23359	RELOC 36'-4"PL MAIN RET PL	388	6/06/2002	911.78	-	16	0.0018925	27.61	
23979	RELOC 130'-4"PL MAIN RET PL	388	6/06/2002	1,123.84	-	16	0.0018925	34.03	
23380	REPL 145'-4"PL MAIN RET CS	388	6/06/2002	369.75	660.00	16	0.0018925	11.20	
23883	REPL 570'-4"PL MAIN RET BASICS	389	6/06/2002	1,359.85	1,780.00	16	0.0018925	41.18	
24172	RELOC 18.4"-TF STEEL MAIN RET PCS			50.40	-	16	0.0018925	1.53	
24557	RELOC INLET/OUTLET DRS #165			523.82	256.00	16	0.0018925	15.86	
24593	RELOC 30'-6&825'-4"TF STEEL MAIN RET PCS			77.55	-	16	0.0018925	2.35	
24594	ABANDON 70'-6"PBS MAIN			81.00	2,419.51	16	0.0018925	2.45	
24556	REBUILD DRS #165 - City of St. Joseph Improvement			1,520.71	-	16	0.0023833	57.99	
23192	RELOC 400'-6"TF STEEL MAIN RET PCS	388	7/15/2002	9,306.42	5,280.00	15	0.0018925	264.19	
23299	REPL 50'-4"PL MAIN RET 6"CI	416	7/15/2002	86.52	-	15	0.0018925	2.46	
23322	REPL 1921'-2"PL MAIN RET PCS/PBS	389	7/15/2002	8,494.75	1,320.00	15	0.0018925	241.14	
23384	RELOC 145'-4"PL MAIN RET CIBS	389	7/15/2002	1,155.38	1,100.00	15	0.0018925	32.80	
23387	RELOC 400'-6"TF STEEL MAIN RET PCS	388	7/15/2002	346.68	1,760.00	15	0.0018925	9.84	
23378	RELOC 421'-6"PL MAIN RET 6"PBS	389	7/15/2002	157.74	1,320.00	15	0.0018925	4.48	
24033	RELOC 450'-8"TF STEEL MAIN RET PCS			226.10	7,200.00	15	0.0018925	6.42	
24554	RELOC LINLET/OUTLET DRS #65			187.65	-	15	0.0018925	5.33	
24572	RELOC 191'-14"TF STEEL MAIN RET PCS			720.36	3,520.00	15	0.0018925	20.45	
24576	RELOC 685'-4";45'-2"TF & 50'-4"TF RET PCS			1,984.83	4,528.96	15	0.0018925	56.34	
24610	RELOC 255'-2"PL MAIN RET PCS			502.74	2,640.00	15	0.0018925	14.27	
24612	RELOC 78'-7"PL MAIN RET PCS			266.76	-	15	0.0018925	7.57	
24619	RELOC 305'-4"PL MAIN RET PCS			1,747.53	2,420.00	15	0.0018925	49.61	
24640	ABANDON 2" PCS			93.90	82.48	15	0.0018925	2.67	
24659	RELOC 6'-3"POS MAIN RET PCS			12.48	-	15	0.0018925	0.35	
24555	REBUILD DRS #65 - City of St. Joseph Improvement			1,808.12	-	15	0.0023833	64.64	
23013	INMAN SQUARE IMPROVE PHASE 1&2	389	8/07/2002	2,476.98	2,200.00	14	0.0018925	65.63	
23324	ABANDONMENT 75'-2"BS MAIN	389	8/07/2002	21.00	2,276.66	14	0.0018925	0.56	
23413	RELOC 26'-2"TF STEEL MAIN RET PCS	388	8/07/2002	9.76	-	14	0.0018925	0.22	
23987	REPL 260'-4"PL MAIN RET PL	388	8/07/2002	1,926.40	6,600.00	14	0.0018925	51.04	
24248	RELOC 60'-4"TF STEEL MAIN RET PCS			2,478.44	-	14	0.0018925	43.75	
24280	RELOC 100'-4" & 100'-2"PL MAIN RET PCS			400.56	-	14	0.0018925	0.48	
24266	RELOC 40'-4"PL MAIN RET 3PCS			121.20	-	14	0.0018925	3.21	
24642	RELOC 410'-4" & 500'-2"PL MAIN RET PBS			2,687.04	6,600.00	14	0.0018925	61.02	
24654	RELOC 1150'-6"PL MAIN RET PCS			13,368.60	1,320.00	14	0.0018925	354.20	
35054	REPL 7'-2"TF STEEL MAIN RET PCS			12.51	45.34	14	0.0018925	0.33	
23360	RELOC 771'-2"PL MAIN RET PCS	388	9/10/2002	2,273.67	-	13	0.0018925	55.94	
23388	1ELOC 1000'-4" & 500'-2"PL MAIN RET PCS			8,651.22	2,200.00	13	0.0018925	212.84	
23410	ABANDONMENT 2"PLAS MAIN			56.00	228.40	13	0.0018925	1.38	
24643	RETIREE MAIN PCS/PBS			910/2002	1,452.49	905.16	13	0.0018925	32.99

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		9/10/2002	1,086,40		13	0.0018925	26.73	24.67
34298	RELOC 170'-2"PL MAIN RET			3,080.00	13	0.0018925	8.78	8.11
34699	RELOC 1190'-4"PL MAIN RET PBS			357.01	12	0.0018925	2.78	2.78
23382	RELOC 169'-2"PL MAIN RET PBS			880.00	12	0.0018925	3.47	3.47
23383	RELOC 35'-4"-TF STEEL MAIN RET PCS	388		152.88	12	0.0018925	94.68	94.68
24653	RELOC 2070'-2"PL MAIN RET PBS/PCL			4,169.24	12	0.0018925	116.97	116.97
24732	RELOC 425'-6"PL MAIN RET PCS			5,150.72	12	0.0018925	3.05	3.05
24819	RELOC 195'-4"PL MAIN RET PBS/PCL			134.17	12	0.0018925	294.44	294.44
34703	RELOC 440'-8"-TF STEEL MAIN RET CS			12,895.37	12	0.0018925	284.44	284.44
34704	REPI-24'-4"-TF STEEL MAIN RET TF			8,110.20	12	0.0018925	20.83	20.83
34748	RELOC 1500'-8"TF STEEL MAIN RET PBS			917.28	12	0.0018925	20.83	20.83
35042	RELOC 165'-2"PL MAIN RET PCS			1,590.92	12	0.0018925	38.40	38.40
35055	RELOC 16'-2"-TF STEEL MAIN RET PCS			405.87	12	0.0018925	9.22	9.22
35076	RELOC 55'-4"-TF STEEL MAIN RET CS			1,320.00	12	0.0018925	0.43	0.43
12465	RELOC 2000'-8"-TF STEEL MAIN RET PBS	389		192.60	12	0.0018925	4.37	4.37
23328	RELOC 31'-4"-TF STEEL MAIN RET PBS			1,760.00	12	0.0018925	140.12	140.12
23403	RELOC 26'-2"-TF STEEL MAIN RET PBS	389		1,750.00	11	0.0018925	0.99	1.08
23411	ABANDON 2"PCS MAIN	388		6,512.48	11	0.0018925	135.57	147.90
24723	LAY 545'-2"PL MAIN RET PCS			1,104.49	11	0.0018925	22.99	25.08
24726	REPI 60'-5"PL MAIN RET PL			-	11	0.0018925	8.59	9.37
34311	RELOC 14'-4"PL MAIN			244.00	11	0.0018925	5.08	5.54
34312	RELOC 14'-4"PL MAIN			183.00	11	0.0018925	3.81	4.16
34313	RELOC 500'-4"PL MAIN RET PL			2,398.40	11	0.0018925	49.72	54.24
34760	RELOC 2"SERVICE-PAVESTONE			7,576.65	11	0.0018933	157.79	172.14
34761	RELOC 25'-2"PL STEEL MAIN RET PCS			50.08	11	0.0018925	1.04	1.14
34762	RELOC 25'-4"-TF STEEL MAIN RET PCS			1,102.50	11	0.0018925	22.95	25.04
34841	REPI 500'-2"PL MAIN RET PBS			440.00	11	0.0018925	26.45	28.86
34844	REPI 750'-4"PL MAIN RET PBS			1,270.61	11	0.0018925	8.68	9.47
34852	REPI 75'-2"PL MAIN RET PL/PBS			220.00	11	0.0018925	-3.50	-3.82
35077	ABANDONMENT 2"PCS MAIN HICKMAN HEIGHTS			168.28	11	0.0018925	5.03	5.48
35124	REPI 50'-8"-TF STEEL MAIN RET 8"CI			241.50	11	0.0018925	0.71	0.77
35669	RELOC 100'-4"PL MAIN RET PL			34.06	11	0.0018925	10.62	11.59
12493	RELOC 2137"-2"PL&6'-4"PL MAIN RET PBS/PCL	389		510.30	11	0.0018925	20.04	24.04
23988	RELOC 30'-4"PL MAIN RET PCS			1,058.71	10	0.0018925	2.50	3.00
23989	RELOC 230'-2"PL MAIN RET PL			1,320.00	10	0.0018925	112.88	135.45
34850	REPI 680'-2"PL MAIN RET PBS/PCL			5,964.45	10	0.0018925	49.39	59.27
35015	RELOC 346'-12"-TF STEEL MAIN RET PCS			12,840.40	10	0.0018925	243.00	291.61
35092	INMAN SQ IMPROVE RET PBS/PCL			1,795.92	10	0.0018925	33.99	40.79
35091	REPI 685'-2"PL MAIN RET PBS/PCL			829.30	10	0.0018925	15.69	18.83
35107	RELOC 20'-2"-TF STEEL MAIN RET PBS			39.76	10	0.0018925	0.75	0.90
35129	RELOC 161'-2"PL MAIN RET			261.95	10	0.0018925	4.96	5.95
<hr/>					229,300.31	185,420.35	6,447.13	5,227.09

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34959	RELOC 600'4"PL MAIN RETCS		2/17/2003	1,570,40	-	8	0.0018925
34960	RELOC 20'-2"PL MAIN RET PL		2/17/2003	177,32	-	8	0.0018925
35067	RELOC 161'4"PL MAIN RET PBS		2/17/2003	391,35	1,760,00	8	0.0018925
35187	REPL 168'-2"PL MAIN RET PBS		2/17/2003	65,25	880,00	8	0.0018925
35210	RELOC 82'-3"TF STEEL MAIN RET PCS/PBS		2/17/2003	13,77	-	8	0.0018925
35926	RELOC 39'-6"PL MAIN RET PL		2/17/2003	17,380,80	-	8	0.0018925
35939	RELOC 150'-2"PL MAIN RET PL		2/17/2003	640,50	-	8	0.0018925
23967	RELOC 15'-6"TF STEEL MAIN RET PCS	388	3/18/2003	236,47	-	7	0.0018925
34838	RETIRE DRS #73 - State Hwy Improvement		3/18/2003	3,663,39	360,23	7	0.0023833
34954	RELOC 4100'4"8&10-2"PL MAIN RET PCS/CS		3/18/2003	36,177,40	1,777,36	7	0.0018925
34877	REPL 250'-4"PL MAIN RET PL		3/18/2003	2,136,00	-	7	0.0018925
35178	ABANDONMENT 4" CI		3/18/2003	64,05	1,172,91	7	0.0018925
35705	RELOC 350'-4"PL MAIN RET 6"PBS		3/18/2003	475,65	2,557,60	7	0.0018925
35745	RELOC 36'-4"818'-2"TF STEEL MAIN RET PCS		3/18/2003	130,20	-	7	0.0018925
35796	RELOC 170'-2"PL MAIN RET PL		3/18/2003	635,04	-	7	0.0018925
35798	RELOC 1010'4"PL MAIN RET CS/PE		3/18/2003	6,265,63	1,760,00	7	0.0018925
35801	RELOC 550'-4"PL MAIN RET PCS		3/18/2003	6,640,40	-	7	0.0018925
35949	REPL 68'-2"TF STEEL MAIN RET PCS		3/18/2003	3,666,40	-	7	0.0018925
35970	RELOC 62'-2"PL MAIN RET PCS		3/18/2003	65,50	-	7	0.0018925
35983	RELOC 36'-2"TF STEEL MAIN RET PCS	388	4/14/2003	27,74	880,00	6	0.0018925
34882	RELOC 93'-2&892'-4"PL MAIN RET PCS/PBS/PL		4/14/2003	244,88	-	6	0.0018925
34883	RELOC 116'-2'&175'-4"PL MAIN RET PL		4/14/2003	2,566,84	-	6	0.0018925
35144	138TH ST STORM SEWER IMPROVEMENTS		4/14/2003	6,974,14	7,450,00	6	0.0018925
35157	RELOC 160'-2"PL MAIN RET PBS		4/14/2003	187,63	-	6	0.0018925
35206	RELOC 48'-4"PL MAIN RET PBS		4/14/2003	43,70	1,760,00	6	0.0018925
35244	RELOC 17'-6"PL MAIN RET PL		4/14/2003	623,61	1,320,00	6	0.0018925
35829	RELOC 225'-2"PL MAIN RET PCS/PL		4/14/2003	1,341,50	601,44	6	0.0018925
35985	RELOC 28'-2"PL MAIN RET PL		4/14/2003	396,60	-	6	0.0018925
35082	RELOC 25'-2"TF STEEL MAIN RET PCS		5/08/2003	51,30	880,00	5	0.0018925
35186	RELOC 565'-4"PL MAIN RET PCS		5/08/2003	1,790,68	2,200,00	5	0.0018925
35199	RELOC 186'-4"PL MAIN RET PBS/CI		5/08/2003	915,51	1,320,00	5	0.0018925
35215	RELOC 122'-4"PL MAIN RET PCS		5/08/2003	469,30	1,760,00	5	0.0018925
35328	ABANDON 10'-6"CI MAIN 38TH & PROSPECT		5/08/2003	131,95	1,104,70	5	0.0018925
35787	RELOC 20'-4"PL MAIN RET		5/08/2003	170,50	-	5	0.0018925
35983	RELOC 23'-4"PCS MAIN RET CS		5/08/2003	68,90	-	5	0.0018925
34904	RELOC 500'-6"PL MAIN RET PCS		6/10/2003	14,200,20	-	4	0.0018925
34909	RELOC 66'-4"PL MAIN RET PL		6/10/2003	256,48	-	4	0.0018925
34980	REPL 32'-6"PL MAIN RET 8"CI		6/10/2003	35,28	-	4	0.0018925
35208	RELOC 110'-6"TF STEEL MAIN RET PCS		6/10/2003	570,63	3,520,00	4	0.0018925
35286	REPL 210'-2"PL MAIN RET CI		6/10/2003	669,68	880,00	4	0.0018925
35982	ABANDON 4"CI & 4"PCS		6/10/2003	2,304,22	-	4	0.0018925
35311	RELOC 84'-2"PL MAIN RET PL		6/10/2003	631,20	880,00	4	0.0018925
35326	RELOC 530'-2"PL MAIN RET PBS		6/10/2003	1,426,78	880,00	4	0.0018925
35338	RELOC 18'-2"TF STEEL MAIN RET 6"CI		6/10/2003	55,44	-	4	0.0018925
36023	RELOC 21'-2"TF STEEL MAIN RET PCS		6/10/2003	20,40	-	4	0.0018925
35339	RELOC 45'-4"PL MAIN RET PBS		6/10/2003	150,87	1,540,00	4	0.0018925
36174	RELOC 15'-2"PL MAIN RET PL		6/10/2003	82,35	-	4	0.0018925
36175	RELOC 8'-2"8&5'-4"PL MAIN GLEN OAKS & GREGG		6/10/2003	177,23	-	4	0.0018925
13130	RELOC 5200'-16'&100'-4"TF STEEL MAIN KINGHILL	389	6/24/2002	22,765,75	24,955,12	16	0.0018925
23175	RELOC 590'-6"TF STEEL MAIN RET CS	368	6/24/2002	6,295,64	3,950,00	16	0.0018925
24054	RELOC 675'-4"PL MAIN RET PL/PCS		6/24/2002	8,283,44	2,200,00	16	0.0018925

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			9/24/2002	4,635.38	5,060.00	16	0.0018925	134.30	100.73
24058	RELOC 9904-#8455 2PL MAIN RET		7/28/2003	102,503.68	2,399.60	3	0.0018925	581.96	2,327.86
34871	REPL 2200-4"X400-2PL MAIN RET PL/PBS		7/28/2003	19,695.98	428.08	3	0.0018925	111.82	447.30
34874	RELOC 2030-4"XPL MAIN RET PL		7/28/2003	1,063.02	143.10	3	0.0018925	6.04	24.14
34869	REPL 25-2"TF STEEL MAIN RET PCS		7/28/2003	8,019.62	-	3	0.0018925	3.67	14.67
35016	RELOC 6"X8" MAIN 139TH & BOTT'S		7/28/2003	13,501.25	-	3	0.0018925	77.22	308.88
35125	RELOC 600-6"TF STEEL MAIN RET PCS		7/28/2003	54,423.44	7,040.00	3	0.0018925	308.99	1,235.96
35551	RELOC 1078-6"TF 301-2PL & 29-4PL TUDOR RD PART2		7/28/2003	146.20	-	3	0.0018925	0.83	3.32
36059	RELOC 25-4"PL MAIN RET PL		7/28/2003	9.00	-	3	0.0018925	0.05	0.20
36081	RELOC 20-2"PCS MAIN RET/PBS		7/28/2003	1,180.50	-	3	0.0018925	6.70	26.81
36084	RELOC 20-4"PCS MAIN RET/PCS		7/28/2003	68.98	1,760.00	3	0.0018925	0.39	1.57
36171	RELOC 14-4"PL MAIN RET/PCS		7/28/2003	83.70	880.00	3	0.0018925	0.48	1.90
36172	RELOC 20-2"PL MAIN RET/PCS		7/28/2003	181.07	-	3	0.0018925	1.03	4.11
36195	RELOC 28-4"PL MAIN RET/PL		7/28/2003	2,153.39	-	3	0.0023833	15.40	61.59
34432	RELOC DRS 507 TIFFANY SPRGS W OF I-29		8/08/2003	182.84	4,400.00	2	0.0018925	0.69	4.15
35173	RELOC 40-4"X4-5"X4-3" MAIN RET BS		8/08/2003	356.27	440.00	2	0.0018925	1.35	8.09
35312	RELOC 37-2"PL MAIN RET PL		8/08/2003	39.20	2,640.00	2	0.0018925	0.15	0.89
35348	RELOC 22-4"PL MAIN RET/CI		8/08/2003	668.68	880.00	2	0.0018925	2.53	15.19
35378	REPL 123-2"PL MAIN RET/PL		8/08/2003	258.90	227.21	2	0.0018925	0.98	5.88
35381	ABANDON 165-2"PCS MAIN 110 & RED BRIDGE		8/08/2003	-	-	2	0.0018925	23.94	143.64
35384	REPL 500-6"TF STEEL MAIN RET/PCS		8/08/2003	6,335.00	-	2	0.0023833	3.55	21.32
35609	RELOC DRSS #82321-S2-16TH S OF BROOKSIDE CIR		8/08/2003	745.36	-	2	0.0018925	-	-
35812	RELOC INLET/OUTLET DRSS #82321-S5		8/08/2003	-	-	2	0.0018925	4.36	26.18
36114	REPL 1020-4"X70-2"PL MAIN RET/CI		8/08/2003	1,152.77	3,950.00	2	0.0018925	1.55	9.28
36132	RELOC 300-2"PL MAIN RET/PCS		8/08/2003	408.75	-	2	0.0018925	0.13	0.78
46207	RELOC 15-4"TF STEEL MAIN RET/PCS		8/08/2003	34.38	-	2	0.0018925	0.14	1.66
35380	RETIRED 4"CL 9TH & GARFIELD		9/17/2003	73.08	2,597.00	1	0.0018925	0.94	11.26
35386	ABANDON 6"CL MAIN 12TH & WALNUT		9/17/2003	496.80	1,622.15	1	0.0018925	0.18	2.16
35349	RELOC 36-4"TF STEEL MAIN RET/PCS		9/18/2003	95.20	1,760.00	1	0.0018925	49.32	591.88
36067	RELOC MAIN 38 HWY IMPROVEMENTS		9/18/2003	26,062.38	-	1	0.0018925	0.12	1.49
44980	RELOC 75-2"PL MAIN RET/PCS		9/18/2003	65.40	151.80	1	0.0018925	0.73	8.77
45426	RELOC 163-2"TF & 48-2"PL MAIN RET/PCS		9/18/2003	366.08	3,520.00	1	0.0018925	3.86	46.34
46209	RELOC 40-4"TF STEEL MAIN RET/PCS		9/18/2003	2,040.72	-	1	0.0018925	4,416.03	9,988.34
				425,371.61	146,700.22				
								19,666.63	19,181.36

Total Public Improvements Retirements & Cost of Removal

841,593.62 393,254.14

19,666.63 19,181.36

Cost of Removal Associated with Meter / Regulator Loop Rebuilds

	Date in Service	Cost of Removal
Acct Year	Acct Period	
Rebuild meter/regulator settings less than 2" connections	2001	\$ 188.55
Rebuild meter/regulator settings less than 2" connections	2001	\$ 880.81
Rebuild meter/regulator settings less than 2" connections	2001	\$ 664.32
Rebuild meter/regulator settings less than 2" connections	2001	\$ 270.28
Rebuild meter/regulator settings less than 2" connections	2001	\$ 735.48
Rebuild meter/regulator settings less than 2" connections	2001	\$ 1,322.32
Rebuild meter/regulator settings less than 2" connections	2002	\$ (608.50)
Rebuild meter/regulator settings less than 2" connections	2001	\$ 1,925.00
Rebuild meter/regulator settings less than 2" connections	2002	\$ 494.58
Rebuild meter/regulator settings less than 2" connections	2002	\$ 3,095.17
Rebuild meter/regulator settings less than 2" connections	2002	\$ (192.76)
Rebuild meter/regulator settings less than 2" connections	2002	\$ 3,731.94

Appendix A

Missouri Gas Energy
Eligible ISRS Plant Additions and Retirements
July 2001 - September 2003

Rebuild meter/regulator settings less than 2" connections	2002	5	\$ (1,821.86)
Rebuild meter/regulator settings less than 2" connections	2002	7	\$ 39.65
Rebuild meter/regulator settings less than 2" connections	2002	8	\$ 125.93
Rebuild meter/regulator settings less than 2" connections	2002	9	\$ 580.93
Rebuild meter/regulator settings less than 2" connections	2002	10	\$ (121.34)
Rebuild meter/regulator settings less than 2" connections	2002	11	\$ 289.20
Rebuild meter/regulator settings less than 2" connections	2002	12	\$ (50.32)
Rebuild meter/regulator settings less than 2" connections	2002	7	\$ 299.00
Rebuild meter/regulator settings less than 2" connections	2003	2	\$ 220.71
Rebuild meter/regulator settings less than 2" connections	2003	3	\$ (73.57)
Rebuild meter/regulator settings less than 2" connections	2003	7	\$ 1,009.84
Rebuild meter/regulator settings less than 2" connections	2003	10	\$ 412.63
Rebuild meter/regulator settings less than 2" connections	2003	11	\$ (183.39)
Rebuild meter/regulator settings less than 2" connections	2003	4	\$ 1,236.00
Rebuild meter/regulator settings less than 2" connections	2003	12	\$ 233.19
Rebuild meter/regulator settings less than 2" connections	2004	3	\$ 14,924.79

Total Cost of Removal Associated with Meter/Regulator Loop Rebuilds

Cost of Removal - unprotected steel/cooper services - less than 2"			Cost of Removal
Description	Acct Year	Date in Service	Cost of Removal
Rep single unprotected steel/cooper service - less than 2"	2002	7	\$ 2,110.65
Rep single unprotected steel/cooper service - less than 2"	2002	8	\$ 1,695.76
Rep single unprotected steel/cooper service - less than 2"	2002	9	\$ 2,004.97
Rep single unprotected steel/cooper service - less than 2"	2002	10	\$ 2,587.34
Rep single unprotected steel/cooper service - less than 2"	2002	11	\$ 683.93
Rep single unprotected steel/cooper service - less than 2"	2002	12	\$ 2,269.40
Rep single unprotected steel/cooper service - less than 2"	2002	7	\$ 20,354.20
Rep planned unprotected steel/cooper service - less than 2"	2002	8	\$ 4,208.73
Rep planned unprotected steel/cooper service - less than 2"	2002	9	\$ 24,723.46
Rep planned unprotected steel/cooper service - less than 2"	2002	10	\$ 46,760.22
Rep planned unprotected steel/cooper service - less than 2"	2002	11	\$ 40,082.77
Rep planned unprotected steel/cooper service - less than 2"	2002	12	\$ 43,713.30
Rep single unprotected steel/cooper service - less than 2"	2002	10	\$ 175.00
Rep single unprotected steel/cooper service - less than 2"	2002	7	\$ 2,219.58
Rep planned unprotected steel/cooper service - less than 2"	2002	8	\$ 2,285.40
Rep planned unprotected steel/cooper service - less than 2"	2002	9	\$ 2,506.21
Rep planned unprotected steel/cooper service - less than 2"	2002	11	\$ 1,130.00
Rep block by block planned unprotected steel/cooper service	2002	7	\$ 789.23
Rep block by block planned unprotected steel/cooper service	2002	10	\$ 175.00
Rep single unprotected steel/cooper service - less than 2"	2003	1	\$ 3,658.06
Rep single unprotected steel/cooper service - less than 2"	2003	2	\$ 4,206.38
Rep single unprotected steel/cooper service - less than 2"	2003	3	\$ 2,698.50
Rep single unprotected steel/cooper service - less than 2"	2003	4	\$ 2,223.97
Rep single unprotected steel/cooper service - less than 2"	2003	5	\$ 4,420.63
Rep single unprotected steel/cooper service - less than 2"	2003	6	\$ 937.17
Rep single unprotected steel/cooper service - less than 2"	2003	7	\$ 998.38
Rep single unprotected steel/cooper service - less than 2"	2003	8	\$ 450.26
Rep single unprotected steel/cooper service - less than 2"	2003	9	\$ 2,719.11
Rep single unprotected steel/cooper service - less than 2"	2003	10	\$ 720.38

Appendix A

Missouri Gas Energy Eligible ISRS Plant Additions and Retirements July 2001 - September 2003

Rep single unprotected steel/copper service - less than 2"	2003	11	\$ 618.68
Rep single unprotected steel/copper service - less than 2"	2003	12	\$ 3,059.67
Rep single unprotected steel/copper service - less than 2"	2004	1	\$ (828.80)
Rep planned unprotected steel/copper service - less than 2"	2002	12	\$ 895.07
Rep planned unprotected steel/copper service - less than 2"	2003	1	\$ 57,648.44
Rep planned unprotected steel/copper service - less than 2"	2003	2	\$ 75,896.79
Rep planned unprotected steel/copper service - less than 2"	2003	3	\$ 45,695.14
Rep planned unprotected steel/copper service - less than 2"	2003	4	\$ 37,161.02
Rep planned unprotected steel/copper service - less than 2"	2003	5	\$ 43,017.80
Rep planned unprotected steel/copper service - less than 2"	2003	6	\$ 42,587.33
Rep planned unprotected steel/copper service - less than 2"	2003	7	\$ 23,075.45
Rep planned unprotected steel/copper service - less than 2"	2003	8	\$ 28,914.53
Rep planned unprotected steel/copper service - less than 2"	2003	9	\$ 33,931.69
Rep planned unprotected steel/copper service - less than 2"	2003	10	\$ 34,044.75
Rep planned unprotected steel/copper service - less than 2"	2003	11	\$ 34,043.36
Rep planned unprotected steel/copper service - less than 2"	2003	12	\$ 34,044.75
Rep planned unprotected steel/copper service - less than 2"	2004	1	\$ (19,418.33)
Rep planned unprotected steel/copper service - less than 2"	2003	10	\$ 16.15
Material charges only - unprotected steel/copper services - less than 2"	2003	2	\$ 182.40
Rep single unprotected steel/copper service - less than 2"	2003	12	\$ 350.00
Rep planned unprotected steel/copper service - less than 2"	2003	1	\$ 10,900.80
Rep planned unprotected steel/copper service - less than 2"	2003	2	\$ 22,296.27
Rep planned unprotected steel/copper service - less than 2"	2003	3	\$ 17,783.29
Rep planned unprotected steel/copper service - less than 2"	2003	4	\$ 175.00
Rep planned unprotected steel/copper service - less than 2"	2003	6	\$ 175.00
Rep planned unprotected steel/copper service - less than 2"	2003	7	\$ 175.00
Rep planned unprotected steel/copper service - less than 2"	2003	8	\$ 337.71
Rep planned unprotected steel/copper service - less than 2"	2003	9	\$ 244.93
Rep planned unprotected steel/copper service - less than 2"	2003	10	\$ 525.00
Rep planned unprotected steel/copper service - less than 2"	2003	11	\$ 175.00
Rep planned unprotected steel/copper service - less than 2"	2003	12	\$ 525.00
Rep block by block planned unprotected steel/copper service	2003	10	\$ 875.00
Rep block by block planned unprotected steel/copper service	2003	11	\$ 350.00
Material charges only - unprotected steel/copper services - less than 2"	2003	2	\$ 138.42
Rep single unprotected steel/copper service - less than 2"	2004	1	\$ 676.53
Rep single unprotected steel/copper service - less than 2"	2004	2	\$ 3,179.86
Rep single unprotected steel/copper service - less than 2"	2004	3	\$ 2,460.62
Rep planned unprotected steel/copper service - less than 2"	2004	1	\$ 57,420.96
Rep planned unprotected steel/copper service - less than 2"	2004	2	\$ 63,703.56
Rep planned unprotected steel/copper service - less than 2"	2004	3	\$ 39,543.16
Rep single unprotected steel/copper service - less than 2"	2004	1	\$ 1,265.88
Rep single unprotected steel/copper service - less than 2"	2004	2	\$ 520.00
Rep single unprotected steel/copper service - less than 2"	2004	3	\$ 440.00
Rep single unprotected steel/copper service - less than 2"	2004	2	\$ 195.00
Rep block by block planned unprotected steel/copper service	2004	1	\$ 198.00
Rep single unprotected steel/copper service - less than 2"	2001	7	\$ 1,605.12
Rep single unprotected steel/copper service - less than 2"	2001	8	\$ 4,923.73
Rep single unprotected steel/copper service - less than 2"	2001	9	\$ 805.34
Rep single unprotected steel/copper service - less than 2"	2001	10	\$ 4,016.85
Rep single unprotected steel/copper service - less than 2"	2001	11	\$ 830.97
Rep single unprotected steel/copper service - less than 2"	2001	12	\$ 1,508.20
Rep single unprotected steel/copper service - less than 2"	2002	1	\$ (139,43)
Rep planned unprotected steel/copper service - less than 2"	2001	7	\$ 12,773.92

Appendix A

Missouri Gas Energy
Eligible ISRS Plant Additions and Retirements
July 2001 - September 2003

Repl planned unprotected steel/copper service - less than 2"	2001	8	\$ 19,572.03
Repl planned unprotected steel/copper service - less than 2"	2001	9	\$ 7,738.36
Repl planned unprotected steel/copper service - less than 2"	2001	10	\$ 9,829.28
Repl planned unprotected steel/copper service - less than 2"	2001	11	\$ 9,071.01
Repl planned unprotected steel/copper service - less than 2"	2001	12	\$ 16,342.33
Repl planned unprotected steel/copper service - less than 2"	2002	1	\$ (5,334.34)
Material charges only - unprotected steel/copper services - les	2001	8	\$ 764.24
Material charges only - unprotected steel/copper services - les	2001	11	\$ 285.03
Repl single unprotected steel/copper service - less than 2"	2001	7	\$ 175.00
Repl planned unprotected steel/copper service - less than 2"	2001	7	\$ 2,844.04
Repl block by block planned unprotected steel/copper service	2001	7	\$ 22,822.57
Repl block by block planned unprotected steel/copper service	2001	8	\$ 1,621.01
Repl block by block planned unprotected steel/copper service	2001	9	\$ 1,225.00
Repl block by block planned unprotected steel/copper service	2001	10	\$ 875.00
Repl single unprotected steel/copper service - less than 2"	2002	1	\$ 273.09
Repl single unprotected steel/copper service - less than 2"	2002	2	\$ 1,932.88
Repl single unprotected steel/copper service - less than 2"	2002	3	\$ 797.04
Repl single unprotected steel/copper service - less than 2"	2002	4	\$ 3,006.29
Repl single unprotected steel/copper service - less than 2"	2002	5	\$ (415.98)
Repl single unprotected steel/copper service - less than 2"	2002	6	\$ 1,278.83
Repl planned unprotected steel/copper service - less than 2"	2002	1	\$ 13,891.68
Repl planned unprotected steel/copper service - less than 2"	2002	2	\$ 12,013.70
Repl planned unprotected steel/copper service - less than 2"	2002	3	\$ 13,553.27
Repl planned unprotected steel/copper service - less than 2"	2002	4	\$ 12,510.56
Repl planned unprotected steel/copper service - less than 2"	2002	5	\$ 6,746.79
Repl planned unprotected steel/copper service - less than 2"	2002	6	\$ 9,993.13
Material charges only - unprotected steel/copper services - les	2002	2	\$ 37.43
Material charges only - unprotected steel/copper services - les	2002	5	\$ 6.98
Repl single unprotected steel/copper service - less than 2"	2002	3	\$ 175.00
Repl single unprotected steel/copper service - less than 2"	2002	5	\$ 175.00
Repl planned unprotected steel/copper service - less than 2"	2002	2	\$ 175.00
Repl planned unprotected steel/copper service - less than 2"	2002	3	\$ 485.14
Repl planned unprotected steel/copper service - less than 2"	2002	6	\$ 1,429.36
Repl block by block planned unprotected steel/copper service	2002	1	\$ 350.00
Repl block by block planned unprotected steel/copper service	2002	2	\$ 350.00
Cost of Removal - unprotected steel/copper services - less than 2"			\$ 1,110,192.92
Grand Total Retirements and Cost of Removal			\$ 1,089,375.89 \$ 1,803,816.38
			\$ 24,088.72 \$ 24,808.57

Missouri Gas Energy,
a Division of Southern Union Company

For: All Missouri Service Areas

INFRASTRUCTURE REPLACEMENT SURCHARGE (ISRS)

Description: Rate ISRS is designed to recover the costs associated with the Company's eligible infrastructure replacements in accordance with the provisions of sections 393.1009, 393.1012 and 393.1015 RSMo.

Applicability: Rate ISRS is applicable to each customer billing for service during the effectiveness of the ISRS rate element.

ISRS Rate Element: In addition to the other charges provided for in the Company's tariff, a monthly ISRS Rate Element shall be added to each bill for service on and after the effective date of the ISRS rate. The amount of the ISRS Rate Element, by customer class, is as follows:

Residential	\$0.58 per month
Small General Service	\$0.58 per month
Large General Service	\$0.58 per month
Large Volume Service	\$0.58 per month
Whiteman Air Force Base	\$0.58 per month
Intrastate Transportation Service	\$0.58 per month
CNG for use as a fuel in vehicles	\$0.58 per month

DATE OF ISSUE December 3 2003
month day year

DATE EFFECTIVE January 2 2004
month day year

ISSUED BY Robert J. Hack

Vice President, Pricing and Regulatory Affairs
Missouri Gas Energy
Kansas City, MO. 64111

Missouri Gas Energy
ISRS Revenue Requirements Calculation

<u>ISRS Activity:</u>	<u>Total for ISRS # 1 Filing</u>
Gas Utility Plant Projects--Replacement Mains, Services and Associated Valves and Regulators (RM) RSMo 393.1012:	
Work Orders Placed in Service:	
Replacement Mains, Services and Associated Valves and Regulators	\$ 11,724,503
Deferred Taxes	(1,138,695)
Accumulated Depreciation	<u>(283,636)</u>
Total Net 393.1012	<u>10,302,173</u>
Gas Utility Plant Projects--Main Rebuildings (RM) RSMo 393.1012:	
Work Orders Placed in Service:	
Main Rebuildings	\$ 4,183,256
Deferred Taxes	(426,207)
Accumulated Depreciation	<u>(116,094)</u>
Total Net 393.1012	<u>3,640,955</u>
Gas Utility Plant Projects--Facilities Relocations (FR) RSMo 393.1012:	
Work Orders Placed in Service:	
Relocated Facilities	8,429,923
Deferred Taxes	(874,817)
Accumulated Depreciation	<u>(260,492)</u>
Total Net 393.1012	<u>7,294,614</u>
Total ISRS Rate Base	21,237,743
Overall Rate Of Return per Last Order	9.47%
UOI Required	2,011,214
Income Tax Conversion Factor	<u>1.6298</u>
Revenue Req. Before Interest Deductability	<u>3,277,877</u>
Total ISRS Rate Base	21,237,743
Embedded Cost of Debt per Last Order	<u>5.84%</u>
Interest Expense Deduction	<u>1,240,284</u>
Combined Federal and State Income Tax Rate	<u>38.64%</u>
Income Tax Redcution due to Interest	<u>479,246</u>
Tax Conversion Factor	<u>1.6298</u>
Revenue Req Impact - Interest Deductability	<u>781,075</u>
Total Revenue Requirement on Capital	2,496,802
Depreciation Expense	729,470
Property Taxes	<u>272,389</u>
Total ISRS Revenues	<u>\$ 3,498,661</u>

**Missouri Gas Energy
Property Tax Calculation
ISRS # 1 Filing**

Total Investment 24,337,683

Less: Retirements (1,089,376)

Net Change in Property Base 23,248,307

Property Tax Rate 1.17165%

Property Tax Expense 272,389

	<u>2000</u>	<u>2001</u>	<u>2002</u>	
Plant in Service (101)	672,286,392.88	704,236,122.78	734,153,875.10	2,110,676,390.76
Less: Intangible Plant	10,426,268.72	10,869,697.71	14,646,338.96	35,942,305.39
Total	661,860,124.16	693,366,425.07	719,507,536.14	2,074,734,085.37
Property Tax Expense	<u>2001</u>	<u>2002</u>	<u>2003</u>	
	7,274,448.76	8,753,492.75	8,280,723.84	24,308,665.35
Property Tax Percentage	1.09909%	1.26246%	1.15089%	<u>3 Yr. Avg.</u> 1.17165%

Missouri Gas Energy
Deferred Taxes - Rate Base Reduction
ISRS # 1 Filing

Composite Tax Rate:	0.3864		
Mains, Services and Regulator Replacements			
Additions Pre- 9/11/01	2001	2002	2003
1,314,113	0	0	
Additions Post- 9/11/01			
1,002,579	0	0	
Year 2002			
0	4,395,909	0	
Year 2003			
0	0	5,011,903	
Total Additions	<u>2,316,692</u>	<u>4,395,909</u>	<u>5,011,903</u>
	<u>11,724,503</u>		
Book Depreciation			
Year 2001	26,526		
Year 2002	53,052	50,333	
Year 2003	39,789	75,500	43,040
Total Book Depreciation	<u>119,368</u>	<u>125,833</u>	<u>288,240</u>
Bonus Depreciation on Post-9/11/01 Additions			
	<u>300,774</u>	<u>1,318,773</u>	<u>1,127,678</u>
Adjusted Tax Basis on Additions			
Tax Depreciation			
Year 2001	353,289		
Year 2002	99,385	1,308,932	
Year 2003	66,223	113,777	1,203,566
Total Tax Depreciation	<u>518,897</u>	<u>1,512,709</u>	<u>1,203,566</u>
Difference between tax and book depreciation			
	<u>399,529</u>	<u>1,386,876</u>	<u>1,160,527</u>
Total Deferred Taxes	<u>154,378</u>	<u>535,889</u>	<u>448,427</u>
	<u>1,138,695</u>		
Rebuildings			
Additions Pre- 9/11/01	2001	2002	2003
438,958	0	0	
Additions Post- 9/11/01			
627,359	0	0	
Year 2002			
0	1,822,795	0	
Year 2003			
0	0	1,294,144	
Total additions	<u>1,066,317</u>	<u>1,822,795</u>	<u>4,183,256</u>
Book Depreciation			
Year 2001	12,209		
Year 2002	24,419	20,871	
Year 2003	18,314	31,307	11,113
Total Book Depreciation	<u>54,942</u>	<u>52,178</u>	<u>11,113</u>
	<u>118,233</u>		
Bonus Depreciation on Post-9/11/01 Additions			
	<u>188,208</u>	<u>546,838</u>	<u>291,182</u>
Adjusted Tax Basis on Additions			
Tax Depreciation			
Year 2001	211,083		
Year 2002	43,291	580,077	
Year 2003	28,846	47,179	310,778
Total Tax Depreciation	<u>283,220</u>	<u>627,256</u>	<u>310,778</u>
	<u>1,221,253</u>		
Difference between tax and book depreciation			
	<u>228,278</u>	<u>575,078</u>	<u>299,664</u>
Total Deferred Taxes	<u>88,207</u>	<u>222,210</u>	<u>115,790</u>
	<u>426,207</u>		
Relocations			
Additions Pre- 9/11/01	2001	2002	2003
641,878	0	0	
Additions Post- 9/11/01			
2,634,413	0	0	
Year 2002			
0	2,146,580	0	
Year 2003			
0	0	3,007,053	
Total additions	<u>3,276,291</u>	<u>2,146,580</u>	<u>3,007,053</u>
	<u>8,429,923</u>		
Book Depreciation			
Year 2001	37,514		
Year 2002	75,027	24,578	
Year 2003	56,270	36,868	25,823
Total Book Depreciation	<u>168,811</u>	<u>61,446</u>	<u>25,823</u>
	<u>256,080</u>		
Bonus Depreciation on Post-9/11/01 Additions			
	<u>790,324</u>	<u>643,974</u>	<u>676,587</u>
Adjusted Tax Basis on Additions			
Tax Depreciation			
Year 2001	855,083		
Year 2002	122,558	683,117	
Year 2003	81,664	55,559	722,118
Total Tax Depreciation	<u>1,059,305</u>	<u>738,676</u>	<u>722,118</u>
	<u>2,520,099</u>		
Difference between tax and book depreciation			
	<u>890,494</u>	<u>677,230</u>	<u>696,295</u>
Total Deferred Taxes	<u>344,087</u>	<u>261,682</u>	<u>269,049</u>
	<u>874,817</u>		
Grand Total Deferred Taxes	<u>586,672</u>	<u>1,019,781</u>	<u>833,266</u>
	<u>2,439,719</u>		

Missouri Gas Energy
Rate of Return Determination Per GR-2001-292
ISRS # 1 Filing

	<u>Capital Component</u>	<u>Percentage of Capital</u>	<u>Embedded Cost</u>	<u>Weighted Cost of Capital</u>	<u>Embedded Cost of Debt</u>
Staff					
	Common Stock Equity	31.24%	10.50%	3.28%	0.00%
	Preferred Stock	4.19%	9.80%	0.41%	0.41%
	Long-Term Debt	58.31%	8.36%	4.87%	4.87%
	Short-Term Debt	6.26%	7.31%	0.46%	0.46%
		<u>100.00%</u>		<u>9.02%</u>	<u>5.74%</u>
OPC					
	Common Stock Equity	32.47%	9.90%	3.21%	0.00%
	Preferred Stock	4.36%	9.80%	0.43%	0.43%
	Long-Term Debt	60.61%	8.12%	4.92%	4.92%
	Short-Term Debt	2.55%	7.27%	0.19%	0.19%
		<u>100.00%</u>		<u>8.75%</u>	<u>5.54%</u>
MGE					
	Common Stock Equity	50.00%	12.50%	4.151%	0.00%
	Long-Term Debt	50.00%	8.30%	6.250%	6.250%
	Efficiency Adjustment	0.00%	0.00%	0.250%	0.00%
		<u>100.00%</u>		<u>10.651%</u>	<u>6.25%</u>
	Average of the Three			<u>9.47%</u>	<u>5.84%</u>

**Missouri Gas Energy
Rate Design
ISRS # 1 Filing**

Total ISRS Revenues	\$ 3,498,661	No. of Customers <u>Note</u>	Allocation \$ 3,053,767	Customer Charge \$ 10.05	ISRS Charge \$ 0.58	ISRS Revenue \$ 3,053,767
Residential		438,708				
Small General Service		62,900	\$ 437,836	\$ 13.55	\$ 0.58	\$ 437,836
Large General Service		445	\$ 3,098	\$ 83.25	\$ 0.58	\$ 3,098
Large Volume		569	\$ 3,961	\$ 409.30	\$ 0.58	\$ 3,961
		<hr/> 502,622	<hr/> \$ 3,498,661			<hr/> \$ 3,498,661
		Per Customer	\$ 0.5801			

Note: Number of Customers are from the 12/31/02 Annual Report to the Commission

**Missouri Gas Energy
Rate Design
ISRS # 1 Filing**

Total ISRS Revenues	\$ 3,498,661	No. of Customers <u>Note</u> 438,708	Allocation \$ 3,053,767	Customer Charge \$ 10.05	Ratio To Res Cust Chrg 1.0000	ISRS Charge \$ 0.53	ISRS Revenue \$ 2,788,819
Residential		62,900	\$ 437,836	\$ 13.55	1.3483	\$ 0.71	\$ 539,099
Small General Service		445	\$ 3,098	\$ 83.25	8.2836	\$ 4.39	\$ 23,433
Large General Service		569	\$ 3,961	\$ 409.30	40.7264	\$ 21.57	\$ 147,310
		<hr/>	<hr/>	<hr/>			
		Per Customer	\$ 0.5801				
		Per Cust Weighted	\$ 0.5297				

Note: Number of Customers are from the 12/31/02 Annual Report to the Commission

Missouri Gas Energy,
a Division of Southern Union Company

For: All Missouri Service Areas

INFRASTRUCTURE REPLACEMENT SURCHARGE (ISRS)

Description: Rate ISRS is designed to recover the costs associated with the Company's eligible infrastructure replacements in accordance with the provisions of sections 393.1009, 393.1012 and 393.1015 RSMo.

Applicability: Rate ISRS is applicable to each customer billing for service during the effectiveness of the ISRS rate element.

ISRS Rate Element: In addition to the other charges provided for in the Company's tariff, a monthly ISRS Rate Element shall be added to each bill for service on and after the effective date of the ISRS rate. The amount of the ISRS Rate Element, by customer class, is as follows:

Residential	\$0.56 per month
Small General Service	\$0.56 per month
Large General Service	\$0.56 per month
Large Volume Service	\$0.56 per month
Whiteman Air Force Base	\$0.56 per month
Intrastate Transportation Service	\$0.56 per month
CNG for use as a fuel in vehicles	\$0.56 per month

DATE OF ISSUE December 3 2003
month day year

DATE EFFECTIVE January 2 2004
month day year

ISSUED BY Robert J. Hack

Vice President, Pricing and Regulatory Affairs
Missouri Gas Energy
Kansas City, MO. 64111

Missouri Gas Energy
ISRS Revenue Requirements Calculation

<u>ISRS Activity:</u>	Total for ISRS # 1 Filing
<u>Gas Utility Plant Projects--Replacement Mains, Services and Associated Valves and Regulators (RM) RSMo 393.1012:</u>	
Work Orders Placed in Service:	
Replacement Mains, Services and Associated Valves and Regulators	\$ 11,724,503
Deferred Taxes	(1,138,695)
Accumulated Depreciation	<u>(283,636)</u>
Total Net 393.1012	<u>10,302,173</u>
<u>Gas Utility Plant Projects--Main Rebuildings (RM) RSMo 393.1012:</u>	
Work Orders Placed in Service:	
Main Rebuildings	\$ 4,183,256
Deferred Taxes	(426,207)
Accumulated Depreciation	<u>(116,094)</u>
Total Net 393.1012	<u>3,640,955</u>
<u>Gas Utility Plant Projects--Facilities Relocations (FR) RSMo 393.1012:</u>	
Work Orders Placed in Service:	
Relocated Facilities	8,429,923
Deferred Taxes	(874,817)
Accumulated Depreciation	<u>(260,492)</u>
Total Net 393.1012	<u>7,294,614</u>
Total ISRS Rate Base	21,237,743
Overall Rate Of Return per Last Order	9.03%
UOI Required	1,917,768
Income Tax Conversion Factor	<u>1.6298</u>
Revenue Req. Before Interest Deductability	<u>3,125,578</u>
Total ISRS Rate Base	21,237,743
Embedded Cost of Debt per Last Order	<u>5.75%</u>
Interest Expense Deduction	1,221,170
Combined Federal and State Income Tax Rate	<u>38.64%</u>
Income Tax Redcution due to Interest	471,860
Tax Conversion Factor	<u>1.6298</u>
Revenue Req Impact - Interest Deductability	<u>769,038</u>
Total Revenue Requirement on Capital	2,356,540
Depreciation Expense	729,470
Property Taxes	<u>272,389</u>
Total ISRS Revenues	<u>\$ 3,358,399</u>

Missouri Gas Energy
Property Tax Calculation
ISRS # 1 Filing

Total Investment	24,337,683
Less: Retirements	(1,089,376)
Net Change in Property Base	23,248,307
Property Tax Rate	1.17165%
Property Tax Expense	272,389

	<u>2000</u>	<u>2001</u>	<u>2002</u>	
Plant in Service (101)	672,286,392.88	704,236,122.78	734,153,875.10	2,110,676,390.76
Less: Intangible Plant	<u>10,426,268.72</u>	<u>10,869,697.71</u>	<u>14,646,338.96</u>	<u>35,942,305.39</u>
Total	<u>661,860,124.16</u>	<u>693,366,425.07</u>	<u>719,507,536.14</u>	<u>2,074,734,085.37</u>

	<u>2001</u>	<u>2002</u>	<u>2003</u>	
Property Tax Expense	7,274,448.76	8,753,492.75	8,280,723.84	24,308,665.35

			<u>3 Yr. Avg.</u>	
Property Tax Percentage	1.09909%	1.26246%	1.15089%	1.17165%

Missouri Gas Energy
Deferred Taxes - Rate Base Reduction
ISRS # 1 Filing

Composite Tax Rate:	0.3864		
Mains, Services and Regulator Replacements			
Additions Pre- 9/11/01	2001	2002	2003
1,314,113	0	0	
Additions Post- 9/11/01			
1,002,579	0	0	
Year 2002			
0	4,395,909	0	
Year 2003			
0	0	5,011,903	
Total Additions	<u>2,316,692</u>	<u>4,395,909</u>	<u>5,011,903</u>
			<u>11,724,503</u>
Book Depreciation			
Year 2001	26,526		
Year 2002	53,052	50,333	
Year 2003	39,789	75,500	43,040
Total Book Depreciation	<u>119,368</u>	<u>125,833</u>	<u>43,040</u>
			<u>288,240</u>
Bonus Depreciation on Post-9/11/01 Additions			
	<u>300,774</u>	<u>1,318,773</u>	<u>1,127,678</u>
Adjusted Tax Basis on Additions			
Tax Depreciation			
Year 2001	353,289		
Year 2002	99,385	1,398,932	
Year 2003	65,223	113,777	1,203,566
Total Tax Depreciation	<u>518,897</u>	<u>1,512,709</u>	<u>1,203,566</u>
			<u>3,235,172</u>
Difference between tax and book depreciation			
	<u>399,529</u>	<u>1,386,876</u>	<u>1,160,527</u>
Total Deferred Taxes	<u>154,378</u>	<u>535,889</u>	<u>448,427</u>
			<u>1,138,695</u>
Rebuildings			
Additions Pre- 9/11/01	2001	2002	2003
438,958	0	0	
Additions Post- 9/11/01			
627,359	0	0	
Year 2002			
0	1,822,795	0	
Year 2003			
0	0	1,294,144	
Total additions	<u>1,066,317</u>	<u>1,822,795</u>	<u>1,294,144</u>
			<u>4,183,256</u>
Book Depreciation			
Year 2001	12,209		
Year 2002	24,419	20,871	
Year 2003	18,314	31,307	11,113
Total Book Depreciation	<u>54,942</u>	<u>52,178</u>	<u>11,113</u>
			<u>118,233</u>
Bonus Depreciation on Post-9/11/01 Additions			
	<u>188,208</u>	<u>546,838</u>	<u>291,182</u>
Adjusted Tax Basis on Additions			
Tax Depreciation			
Year 2001	211,083		
Year 2002	43,291	580,077	
Year 2003	28,846	47,179	310,778
Total Tax Depreciation	<u>283,220</u>	<u>627,256</u>	<u>310,778</u>
			<u>1,221,253</u>
Difference between tax and book depreciation			
	<u>228,278</u>	<u>575,078</u>	<u>299,664</u>
Total Deferred Taxes	<u>88,207</u>	<u>222,210</u>	<u>115,790</u>
			<u>426,207</u>
Relocations			
Additions Pre- 9/11/01	2001	2002	2003
641,878	0	0	
Additions Post- 9/11/01			
2,634,413			
Year 2002			
0	2,146,580	0	
Year 2003			
0	0	3,007,053	
Total additions	<u>3,276,291</u>	<u>2,146,580</u>	<u>3,007,053</u>
			<u>8,429,923</u>
Book Depreciation			
Year 2001	37,514		
Year 2002	75,027	24,578	
Year 2003	56,270	36,868	25,823
Total Book Depreciation	<u>168,811</u>	<u>61,446</u>	<u>25,823</u>
			<u>256,080</u>
Bonus Depreciation on Post-9/11/01 Additions			
	<u>790,324</u>	<u>643,974</u>	<u>676,587</u>
Adjusted Tax Basis on Additions			
Tax Depreciation			
Year 2001	855,083		
Year 2002	122,558	683,117	
Year 2003	81,664	55,559	722,118
Total Tax Depreciation	<u>1,059,305</u>	<u>738,676</u>	<u>722,118</u>
			<u>2,520,099</u>
Difference between tax and book depreciation			
	<u>890,494</u>	<u>677,230</u>	<u>696,295</u>
Total Deferred Taxes	<u>344,087</u>	<u>261,682</u>	<u>269,049</u>
			<u>874,817</u>
Grand Total Deferred Taxes	<u>586,672</u>	<u>1,019,781</u>	<u>833,266</u>
			<u>2,439,719</u>

Missouri Gas Energy
Rate of Return Determination Per GR-2001-292
ISRS # 1 Filing

	<u>Capital Component</u>	<u>Percentage of Capital</u>	<u>Embedded Cost</u>	<u>Weighted Cost of Capital</u>	<u>Embedded Cost of Debt</u>
Staff					
	Common Stock Equity	31.24%	10.50%	3.28%	0.00%
	Preferred Stock	4.19%	9.80%	0.41%	0.41%
	Long-Term Debt	58.31%	8.36%	4.87%	4.87%
	Short-Term Debt	6.26%	7.31%	0.46%	0.46%
		<u>100.00%</u>		<u>9.02%</u>	<u>5.74%</u>
OPC					
	Common Stock Equity	32.47%	9.90%	3.21%	0.00%
	Preferred Stock	4.36%	9.80%	0.43%	0.43%
	Long-Term Debt	60.61%	8.12%	4.92%	4.92%
	Short-Term Debt	2.55%	7.27%	0.19%	0.19%
		<u>100.00%</u>		<u>8.75%</u>	<u>5.54%</u>
MGE					
	Common Stock Equity	50.00%	12.50%	4.151%	0.00%
	Long-Term Debt	50.00%	8.30%	6.250%	6.250%
	Efficiency Adjustment	0.00%	0.00%	0.250%	0.00%
		<u>100.00%</u>		<u>10.651%</u>	<u>6.25%</u>
			Average of the Three	9.47%	5.84%
Staff-Per Staff Accounting Schedules Dated 6/22/01					
	Common Stock Equity			3.28%	0.00%
	Preferred Stock			0.43%	0.43%
	Long-Term Debt			<u>5.32%</u>	<u>5.32%</u>
	Short-Term Debt			<u>9.03%</u>	<u>5.75%</u>

Missouri Gas Energy
Rate Design
ISRS #1 Filing

Total ISRS Revenues	\$ 3,358,399	No. of Customers Note 438,708	\$ Allocation 2,931,341	\$ Customer Charge 10.05	\$ ISRS Charge 0.56	\$ ISRS Revenue 2,931,341
Residential						
Small General Service	62,900	\$ 420,283	\$ 13.55	\$ 0.56	\$ 420,283	
Large General Service	445	\$ 2,973	\$ 83.25	\$ 0.56	\$ 2,973	
Large Volume	569	\$ 3,802	\$ 409.30	\$ 0.56	\$ 3,802	
	<hr/> 502,622	<hr/> \$ 3,358,399				<hr/> \$ 3,358,399
Per Customer	\$ 0.5568					

Note: Number of Customers are from the 12/31/02 Annual Report to the Commission

**Missouri Gas Energy
Rate Design
ISRS # 1 Filing**

	\$ 3,358,399							
	No. of Customers <u>Note</u> 438,708	\$ Allocation 2,931,341	\$ Customer Charge 10.05		Ratio To Res Cust Chrg 1.0000	\$ SRS Charge 0.51	\$ ISRS Revenue 2,677,015	
Residential								
Small General Service	62,900	\$ 420,283	\$ 13.55		1.3483	\$ 0.69	\$ 517,487	
Large General Service	445	\$ 2,973	\$ 83.25		8.2836	\$ 4.21	\$ 22,493	
Large Volume	569	\$ 3,802	\$ 409.30		40.7264	\$ 20.71	\$ 141,404	
	<hr/> 502,622	<hr/> \$ 3,358,399						
Per Customer	\$ 0.5568							
Per Cust Weighted	\$ 0.5085							

Note: Number of Customers are from the 12/31/02 Annual Report to the Commission