



**Kansas  
Gas Service™**

A Division of ONE Gas

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20140825115252  
Filed Date: 08/25/2014  
State Corporation Commission  
of Kansas

**JOHN DeCOURSEY**  
Managing Attorney

August 25, 2014

**VIA ELECTRONIC TRANSMISSION**

Tom Day  
Executive Director  
Kansas Corporation Commission  
1500 S.W. Arrowhead Road  
Topeka, KS 66604

Re: In the Matter of the Application of Kansas Gas Service, a Division of ONE Gas, Inc.  
For Approval By the Commission for a Gas System Reliability Surcharge per K.S.A  
66-2201 through 66-2204

Docket 15-KGSG- -TAR

Dear Mr. Day:

Enclosed please find an original of our *Application* along with the Direct Testimony and Exhibits of Anthony P. Cellitti and Direct Testimony and Exhibits of Lorna M. Eaton for filing in the above-referenced matter.

Thank you for your assistance in this matter.

Sincerely,

A handwritten signature in blue ink that reads "John P. DeCoursey".

John P. DeCoursey

JPD/sef

Enclosure

cc: David Springe  
Dana Bradbury, General Counsel KCC  
Jeff McClanahan, Commission Staff

**BEFORE THE STATE CORPORATION COMMISSION  
OF THE STATE OF KANSAS**

In the Matter of the Application of Kansas )  
Gas Service, a Division of ONE Gas, Inc. )  
for Approval By the Commission for a )       Docket No. 15-KGSG- 088-TAR  
Gas System Reliability Surcharge per )  
K.S.A. 66-2201 through 66-2204 )

**APPLICATION**

COMES NOW Kansas Gas Service, a Division of ONE Gas, Inc. (“Kansas Gas Service” or “Company”) and pursuant to K.S.A. 66-2201, *et seq.*, submits for filing revisions to its Gas System Reliability Surcharge (GSRS) tariff which was originally approved in Docket No. 09-KGSG-199-TAR (the “199 Docket”) and updated in dockets No. 10-KGSG-155-TAR (the “155 Docket”), No. 11-KGSG-177-TAR (the “177 Docket”) and 12-KGSG-138-TAR (the “138 Docket”). The tariff was reset to zero as a result of the Company’s most recent general rate case, Docket No. 12-KGSG-835-RTS (the “835 Docket”) and was then updated in Docket No. 14-KGSG-111-TAR (the “111 Docket”). The GSRS tariff schedule is designed to allow for the adjustment of Kansas Gas Service’s rates and charges to provide for the recovery of costs for eligible infrastructure system replacements. In support of its Application, Kansas Gas Service states as follows:

1.       Kansas Gas Service is a natural gas public utility operating in the State of Kansas pursuant to certificates of convenience and necessity issued by the Commission. Kansas Gas Service’s principal place of business in the state of Kansas is located at 7421 West 129<sup>th</sup> Street, Overland Park, Kansas 66213.

2.       Pleadings, notices, orders and other correspondence and communications regarding the Application should be sent to:

John P. DeCoursey  
Walker Hendrix  
Kansas Gas Service  
A Division of ONE Gas, Inc.  
7421 W. 129<sup>th</sup> Street  
Overland Park, Kansas 66213

David Dittmore  
Kansas Gas Service  
A Division of ONE Gas, Inc.  
7421 W. 129<sup>th</sup> Street  
Overland Park, Kansas 66213

3. In 2006, Senate Bill 414, the Gas Safety and Reliability Act, was passed into law. Under this law, a utility “may file a petition and proposed rate schedules with the commission to establish or change GSRS rate schedules that will allow for the adjustment of the natural gas public utility’s rates and charges to provide for the recovery of costs for eligible infrastructure system replacements.” Each year a utility is required to relocate and replace certain segments of its system. Kansas Gas Service’s GSRS tariff, which is the subject of this Application, allows the utility to recover the expenses associated with these projects between rate cases through a surcharge.

4. K.S.A. 66-2202 defines “eligible infrastructure system replacement” as: “Natural gas public utility plant projects that: (1) Do not increase revenues by directly connecting the infrastructure replacement to new customers; (2) are in service and used and required to be used; and (3) were not included in the natural gas public utility’s rate base in its most recent general rate case.”

5. Exhibits APC-1, APC-2, APC-3 and APC-4, which are attached to the testimony of Anthony Cellitti, summarize the projects being included in this GSRS filing. There are two groups of projects being submitted. The first group is comprised of safety related system replacements and includes 114 projects. These projects are identified in Exhibit APC-1. The second group consists of government mandated relocation projects

which have not been fully reimbursed to the natural gas utility and includes 152 projects. These projects are identified in Exhibit APC-2. Both types of projects are eligible for inclusion in a GSRS filing. Exhibits APC-1 and APC-2 show the location, project description, work order number, unitization date and cost for each of the projects. The safety related project list, Exhibit APC-1, also includes a reference to the compliance section of the state or federal pipeline safety requirements that prompted the replacements for existing facilities. The governmental relocation project list, Exhibit APC-2, also identifies the governmental entity requiring the relocation activity. The projects identified in Exhibits APC-1 and APC-2 were unitized between July 1, 2013 and June 30, 2014. Exhibit APC-3 summarizes blanket work orders related to service line replacements and projects which have also been done pursuant to safety concerns and/or government mandated relocation projects. Blanket work orders are used to account for costs of projects that are of relatively small dollar amounts and are homogenous. The projects identified in Exhibit APC-3 were also unitized between July 1, 2013 and June 30, 2014. As set forth in the Commission's Order in the 199 Docket, Exhibit APC-4 provides further explanations for those safety related projects identified in Exhibit APC-1 that were done in whole or in part pursuant to 49 CFR 192.613. None of the projects included in Exhibits APC 1-3 were included in Kansas Gas Service's last general rate filing, the 835 Docket.

6. The inclusion criteria for the safety related projects, according to K.S.A. 66-2202 (f) (1) and (2), are as follows: "(1) 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; and (2) 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.”

7. The inclusion criteria for the road relocation projects, according to K.S.A. 66-2202(f) (3) are as follows: “facility relocations required due to construction or improvement of a highway, road, street, public right of way or other public work by or on behalf of the United States, this state, a political subdivision of this state or another entity having the power of eminent domain provided that the costs related to such projects have not been reimbursed to the natural gas utility.”

8. Only projects meeting either criteria previously mentioned are being submitted for consideration in this filing.

9. Exhibits LME-1 through LME-7, which are attached to the testimony of Lorna M. Eaton, summarize the financial and accounting aspects of the projects Kansas Gas Service proposes to recover, as well as the proposed GSRS tariff. Pursuant to the provisions of K.S.A. 66-2204, Exhibit LME-1 shows the increase to rate base and the calculation of the GSRS revenue requirement. The net GSRS rate base as a result of the projects approved in the 111 Docket and those additional projects identified in this Application is \$37,651,278. The proposed GSRS revenue requirement associated with projects approved in the 111 Docket and those additional projects identified in this Application is \$5,020,065.

10. K.S.A. 66-2203(a) states that “the commission may not approve a GSRS to the extent it would produce total annualized GSRS revenues below the lesser of \$1,000,000 or ½% of the natural gas public utility’s base revenue level approved by the

commission in the natural gas public utility's most recent general rate proceeding." Based on Kansas Gas Service's most recent general rate proceeding, the lower amount totals to \$1,000,000. The requested revenue increase of \$3,544,716 accordingly satisfies this requirement.

11. In this Application, Kansas Gas Service has also included a true-up calculation to account for revenue recovered under the current GSRS through June, 2014 versus the revenue approved to be recovered in the 111 Docket. This calculation is shown in Exhibit LME-2.

12. Components of the rate base calculation include Gross Plant, which is the original cost of all eligible projects, accumulated depreciation associated with the eligible infrastructure system replacements, and accumulated deferred income taxes associated with the eligible infrastructure system replacements. Exhibits LME-3 and LME-4 detail the calculations for those projects identified in this Application along with updates to those projects approved in the 111 Docket.

13. Exhibit LME-5 shows the calculation of depreciation expense for those projects identified in this Application along with updates to the projects identified in the 111 Docket.

14. The Stipulated Settlement Agreement in Kansas Gas Service's most recent rate case, the 835 Docket, sets forth the provisions for the carrying charge to be applied to recoverable investments for Kansas Gas Service's GSRS filing. The Stipulation provides that the carrying charge applicable to GSRS is 10.6%, gross of tax. This return was used in the calculation of the revenue requirement as shown in Exhibit LME-1.


15. Exhibit LME-6 shows the allocation of the GSRS revenue by class. The customer class allocation is pursuant to the Stipulated Settlement Agreement in the 835 Docket and is the same as that used by Kansas Gas Service and approved by the Commission in the 111 Docket.

16. K.S.A. 66-2204 (e) (1) states: “A GSRS shall be charged to customers as a monthly fixed charge and not based on volumetric consumption. The monthly charge shall not increase more than \$.40 per residential customer over the base rates in effect for the initial filing of a GSRS. Thereafter, each filing shall not increase the monthly charge more than \$.40 per residential customer over the most recent filing of a GSRS.” The proposed GSRS surcharge yields a \$0.36 per meter per month surcharge increase for a residential customer, which is below the maximum increase of \$0.40. This increase of \$0.36 per meter per month brings the total surcharge for residential consumers to \$0.51 per meter per month.

17. Exhibit LME-7 is the revised GSRS tariff page reflecting the recalculated GSRS rates.

WHEREFORE, for the reasons set forth herein Kansas Gas Service requests that the Commission issue an Order approving the Application and the modified Gas System Reliability Surcharge Rider as set forth in Exhibit LME-7.

KANSAS GAS SERVICE  
A DIVISION OF ONE GAS, INC.

  
\_\_\_\_\_  
John P. DeCoursey #11050  
Walker Hendrix #08835  
7421 West 129<sup>th</sup> Street  
Overland Park, Kansas 66213  
(913) 319-8617  
ITS ATTORNEYS

VERIFICATION

STATE OF KANSAS )  
 ) ss  
COUNTY OF JOHNSON )

John P. DeCoursey of lawful age, being first duly sworn upon oath, deposes and states: That he is an attorney for Kansas Gas Service, a division of ONE Gas, Inc.; that he has read the above and foregoing *Application* and that the statements therein contained are true according to his knowledge, information and belief.

*John P. DeCoursey*  
John P. DeCoursey

Subscribed and sworn before me this 22<sup>nd</sup> day of August, 2014.

*Stephanie Fleming*  
Notary Public



My Appointment Expires: 06/05/18

**CERTIFICATE OF SERVICE**

I hereby certify that a copy of the above and foregoing *Application* was mailed this 25<sup>th</sup> day of August, 2014, addressed to:

David Springe  
Consumer Counsel  
Citizens' Utility Ratepayer Board  
1500 SW Arrowhead Road  
Topeka, KS 66604

Dana Bradbury  
General Counsel  
Kansas Corporation Commission  
1500 SW Arrowhead Road  
Topeka, KS 66604-4027

  
John P. DeCoursey

In the Matter of the Application of )  
Kansas Gas Service, A Division )  
of ONE Gas, Inc. for Approval By ) DOCKET NO. 15-KGSG-\_\_\_-TAR  
The Commission for a Gas )  
System Reliability Surcharge per )  
K.S.A. 66-2201 through 66-2204 )

**DIRECT TESTIMONY**  
**OF**  
**ANTHONY P. CELLITTI**  
**ON BEHALF OF**  
**KANSAS GAS SERVICE**  
**A DIVISION OF ONE GAS, INC**

**DIRECT TESTIMONY**  
**OF**  
**ANTHONY P. CELLITTI**  
**KANSAS GAS SERVICE**  
**DOCKET NO. 15-KGSG-\_\_\_-TAR**

1 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

2 A. My name is Anthony P. Cellitti. My business address is 11401 West 89<sup>th</sup> Street,  
3 Overland Park, Kansas 66214.

4 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

5 A. I am employed by Kansas Gas Service, a Division of ONE Gas. I hold the position of  
6 Manager of Engineering.

7 Q. PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL  
8 EXPERIENCE.

9 A. I have a Bachelor of Science and a Master of Science in Civil Engineering from the  
10 University of Kansas. I also have Master of Business Administration from Rockhurst  
11 University. Upon completion of my undergraduate degree in 1982, I began  
12 employment with The Gas Service Company as an engineer. Since then my career  
13 has been involved in the natural gas distribution business. I have had several  
14 positions in engineering and operations. Since 1997, I have been a Manager of  
15 Engineering for Kansas Gas Service. I am a Licensed Professional Engineer in the  
16 states of Kansas, Missouri, and Oklahoma.

17 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

18 A. The purpose of my testimony is to support the eligibility of infrastructure system  
19 replacement and/or enhancement projects included in Kansas Gas Service's  
20 proposed Gas System Reliability Surcharge (GSRS). In addition to my testimony,



1 Ms. Lorna Eaton provides direct testimony on the calculation of the GSRS revenue  
2 and the surcharge amounts by customer class.

3 Q. ARE YOU SPONSORING ANY EXHIBITS?

4 A. Yes. I am sponsoring Exhibits APC-1, APC-2, APC-3 and APC-4. These exhibits  
5 are a summary and explanation of the projects being included in this proposal.

6 Q. PLEASE PROVIDE A BRIEF OVERVIEW OF KANSAS GAS SERVICE.

7 A. Kansas Gas Service is a division of ONE Gas, Inc. providing natural gas distribution  
8 services to over 632,000 customers in 339 communities. Of this amount, over  
9 577,000 are residential customers, with the balance comprised of over 50,000  
10 general service sales customers and lesser numbers of transportation customers.  
11 Kansas Gas Service operates a system which includes over 12,000 miles of  
12 distribution and transmission lines.

13 Q. WHAT IS A GAS SYSTEM RELIABILITY SURCHARGE?

14 A. In 2006, Senate Bill 414, the Gas Safety and Reliability Act, was passed into law.  
15 Under this law, a utility may file a petition and proposed rate schedules with the  
16 Commission to establish or change GSRS rate schedules that will allow for the  
17 adjustment of the natural gas public utility's rates and charges to provide for the  
18 recovery of costs for eligible infrastructure system replacements. Each year a utility  
19 is required to relocate and replace certain segments of its system. The GSRS will  
20 allow the utility to recover these expenses between rate cases through a surcharge.

21 Q. HOW ARE "ELIGIBLE INFRASTRUCTURE SYSTEM REPLACEMENTS"  
22 DEFINED?

23 A. K.S.A. 66-2202(d)(1) defines "eligible infrastructure system replacement" as natural  
24 gas public utility plant projects that: (1) Do not increase revenues by directly  
25 connecting the infrastructure replacement to new customers; (2) are in service and

1 used and required to be used; and (3) were not included in the natural gas public  
2 utility's rate base in its most recent general rate case.

3 Q. HOW ARE NATURAL GAS UTILITY PLANT PROJECTS IDENTIFIED IN THE  
4 STATUTE?

5 A. K.S.A. 66-2202 (f) provides that natural gas utility plant projects shall consist of one  
6 of the following categories: (1) Mains, valves, service lines, regulator stations, vaults  
7 and other pipeline system components installed to comply with state or federal safety  
8 requirements as replacements for existing facilities; (2) main relining projects, service  
9 line insertion projects, joint encapsulation projects and other similar projects  
10 extending the useful life or enhancing the integrity of pipeline system components  
11 undertaken to comply with state or federal safety requirements; and (3) facility  
12 relocations required due to construction or improvement of a highway, road, street,  
13 public way or other public work by or on behalf of the United States, this state, a  
14 political subdivision of this state or another entity having the power of eminent  
15 domain provided that the costs related to such projects have not been reimbursed to  
16 the natural gas public utility. Components 1 and 2 identified above are generally  
17 classified under the heading of a safety related project within this Application, while  
18 component 3 is generally classified as a governmental relocation project.

19 Q. WHAT KINDS OF PROJECTS ARE INCLUDED IN KANSAS GAS SERVICE'S  
20 GSRS PROPOSAL?

21 A Exhibit APC-1 identifies those projects that qualify as a safety-related project under  
22 K.S.A. 66-2202 (f) (1) and (2). Exhibit APC-2 identifies those projects that qualify as  
23 governmental relocation projects under K.S.A. 66-2202 (f) (3). Both exhibits provide  
24 a project description, work order number, unitization date and cost for each of the  
25 projects. The safety-related project list in Exhibit APC-1 also includes a reference to  
26 the compliance section of the state or federal pipeline safety requirements. The

1 governmental relocation project list also identifies the governmental entity requiring  
2 the relocation activity. The projects identified in Exhibits APC-1 and APC-2 were  
3 unitized between July 1, 2013 and June 30, 2014.

4 Q. PLEASE EXPLAIN EXHIBIT APC-3.

5 A. Exhibit APC-3 identifies projects that have been accounted for as blanket work  
6 orders for service line replacement projects and a limited group of non-service line  
7 projects. Blanket work orders are used to account for costs of projects that are of  
8 relatively small dollar amount and are homogenous. Replacement of service lines  
9 meets both of these criteria, and therefore is accounted for within blanket work  
10 orders. These service line replacement projects are small projects wherein the  
11 Company has replaced the service line from the main in the street to the house as a  
12 result of either a safety concern or a public improvement project. As such, they are  
13 eligible for recovery under K.S.A. 66-2202 (f) (1) or (2) in the same manner as  
14 projects identified in Exhibits APC-1 and APC-2. The projects identified in Exhibit  
15 APC-3 were unitized between July 1, 2013 and June 30, 2014. The service line  
16 replacements have also been identified by safety category or government mandated  
17 relocation category.

18 Q. PLEASE EXPLAIN EXHIBIT APC-4.

19 A. Pursuant to the Commission's Order in our initial GSRS filing, Docket No. 09-KGSG-  
20 199-TAR (the "199 Docket"), the Commission requested that Kansas Gas Service  
21 provide a more detailed explanation for projects that are included as a GSRS project  
22 pursuant to 49 CFR 192.613. Exhibit APC-4 provides such explanation for those  
23 projects identified in Exhibit APC-1 that reference 192.613 of the Code of Federal  
24 Regulations. I will provide an explanation of the applicability of 192.613 to the  
25 service line replacements later in my testimony.

1 Q ARE PROJECTS OTHER THAN SAFETY-RELATED AND GOVERNMENT-  
2 MANDATED RELOCATIONS, WHICH MEET THE INCLUSION CRITERIA LISTED  
3 ABOVE, INCLUDED IN THIS GSRS APPLICATION?

4 A. No. Only projects meeting the two criteria previously mentioned are being submitted  
5 for consideration in this filing.

6 Q. WHEN WERE THE PROJECTS INCLUDED IN EXHIBITS APC-1, APC-2 AND APC-  
7 3 COMPLETED?

8 A. The projects included in Exhibits APC-1 and APC-2 were those unitized and included  
9 on the books as plant in service during the period July 2013 through June 2014. As  
10 referenced in Ms. Eaton's testimony, none of the costs included in Exhibits APC-1,  
11 APC-2 and APC-3 were included in Kansas Gas Service's most recent rate case,  
12 Docket No. 12-KGSG-835-RTS (the "835 Docket"), nor were any of these costs  
13 identified in Exhibits APC-1, APC-2 and APC-3 approved for recovery in Docket No.  
14 14-KGSG-111-TAR (the "111 Docket").

15 Q. WHAT SAFETY RELATED REGULATIONS WERE REFERENCED TO  
16 DETERMINE A PROJECT'S INCLUSION IN THIS GSRS FILING?

17 A. The referenced regulations are contained in 49 CFR Part 192, Transportation of  
18 Natural and Other Gas by Pipeline: Minimum Federal Safety Standards, and those  
19 Kansas Administrative Regulations (K.A.R.s) applicable to jurisdictional natural gas  
20 pipelines within the State of Kansas.

21 Q. WHAT REGULATIONS ARE ASSOCIATED WITH THE SAFETY-RELATED  
22 REPLACEMENT PROJECTS IN KANSAS GAS SERVICE'S FILING?

23 A. Each project identified in Exhibit APC-1 was undertaken to comply with state or  
24 federal safety requirements. The column marked Safety Regulation in Exhibit APC-1  
25 identifies the regulations from Title 49 of the Code of Federal Regulations and  
26 incorporate the changes to those regulations by the Kansas Corporation Commission

1 as codified in K.A.R. 82-11-4. Among the applicable regulations are 49 CFR  
2 192.453, 192.465 (h), 192.755 (c), 192.455, 192.457, 192.613, 192.703, and  
3 192.721. Also referenced in APC-1 are certain Kansas Corporation dockets that  
4 address safety. I will explain the safety related regulations and government  
5 mandated relocations for service lines later in my testimony.

6 Q. WHAT TYPES OF SAFETY RELATED PROJECTS ARE INCLUDED IN EXHIBIT  
7 APC-1 OF KANSAS GAS SERVICE'S REQUEST?

8 A. Generally, there are six categories of safety related projects included in Kansas Gas  
9 Service's request in Exhibit APC-1. The total expenditures for all projects are  
10 \$14,708,241. These categories consist of:

- 11 1) 5-5-3 DISTRIBUTION MAIN REPLACEMENT
- 12 2) CAST IRON GRAPHITIZATION REPLACEMENT
- 13 3) CAST IRON REPLACEMENT
- 14 4) CATHODIC PROTECTION
- 15 5) CONTINUING SURVEILLANCE
- 16 6) 1855 OPERATIONS AND MAINTENANCE

17 Q. MR. CELLITTI, PLEASE DISCUSS THE 5-5-3 REPLACEMENT PROJECTS  
18 DESCRIBED IN THE GSRS QUALIFICATIONS OF EXHIBIT APC-1.

19 A. Section 192.465 (h) requires the Company to have a replacement program based on  
20 the number of leaks in a defined area. Kansas Gas Service's 5-5-3 program has  
21 been implemented pursuant to 192.465 (h) to address pre-August 1, 1971,  
22 distribution segments that may be subject to corrosion. Under the 5-5-3 program,  
23 Kansas Gas Service identifies unprotected bare steel distribution main segments  
24 which have experienced five or more leaks within a block (approximately 500 feet)  
25 over the past three years. Exhibit APC-1 identifies those distribution segments which  
26 have been replaced pursuant to this program. Replacement of bare steel main

1 segments beyond 500 feet is supported pursuant to the requirements of 192.613  
2 which requires among other things, continued evaluation of facilities to determine  
3 appropriate actions to take concerning changes in operating conditions. The total  
4 capital expenditures for the 5-5-3 projects identified in Exhibit APC-1 are \$157,072.

5 Q. PLEASE DESCRIBE THE CAST IRON GRAPHITIZATION REPLACEMENT  
6 ACTIVITIES SET FORTH IN EXHIBIT APC-1.

7 A. Section 192.755 (c) requires pipeline operators to collect coupons from cast iron  
8 distribution mains and analyze the coupons for graphitization of the cast iron. The  
9 operator must replace at least one city block of main if the coupon exhibits  
10 graphitization beyond levels stated in the regulation. The project identified in Exhibit  
11 APC-1 was a section of distribution main required to be replaced pursuant to the  
12 regulation. Replacement of cast iron main segments beyond one city block is  
13 supported pursuant to the requirements of 192.613 which requires among other  
14 things, continued evaluation of facilities to determine appropriate actions to take  
15 concerning changes in operating conditions. The total capital expenditures for the  
16 Cast Iron Graphitization projects identified in Exhibit APC-1 are \$196,790.

17 Q. PLEASE DESCRIBE THE CAST IRON REPLACEMENT ACTIVITIES SET FORTH  
18 IN EXHIBIT APC-1.

19 A. Section 192.613 (b) states that if a pipeline is determined to be in unsatisfactory  
20 condition but no immediate hazard exists, the operator shall initiate a program to  
21 recondition or phase out the segment involved. As addressed in KCC Docket No.  
22 12-KGSG-721-TAR, Kansas Gas Service is proceeding with its program under  
23 192.613(b) to replace its entire cast iron pipes throughout our distribution system.  
24 The total capital expenditures for the Cast Iron Replacement projects identified in  
25 Exhibit APC-1 are \$1,457,493.

26 Q. PLEASE EXPLAIN THE CATEGORY IDENTIFIED AS CATHODIC PROTECTION.

1 A. 192.457 requires that pipelines installed prior to August 1, 1971, shall be cathodically  
2 protected in areas where active corrosion is found. The job activities identified in  
3 Exhibit APC-1 under the heading of Cathodic Protection represent those projects  
4 undertaken by Kansas Gas Service that involve the cathodic protection of our  
5 facilities. These activities are required by regulation and reduce the possibility of  
6 corrosion of pipes, thereby significantly reducing the chance for leaks and risk to the  
7 general public. Many of these projects were performed pursuant to 192.457 for  
8 pipelines installed prior to August 1, 1971. A portion of the pipeline projects were  
9 also performed pursuant to 192.455 as certain sections of the identified segments  
10 have had main sections replaced after August 1, 1971. The activities identified in  
11 these projects were done to install new facilities that we determined more efficiently  
12 reduced corrosion on the pipelines. The total capital expenditures for the Cathodic  
13 Protection projects identified in Exhibit APC-1 are \$1,457,885.

14 Q. PLEASE EXPLAIN THE CATEGORY IDENTIFIED AS CONTINUING  
15 SURVEILLANCE.

16 A. 192.613 requires each operator to have a procedure for continuing surveillance of its  
17 facilities to determine and take appropriate action concerning changes in class  
18 location, failures, leakage history, corrosion, substantial changes in cathodic  
19 protection requirements, and other unusual operating and maintenance conditions. It  
20 also requires that if a segment of pipe is determined to be in unsatisfactory condition  
21 but no immediate hazard exists, the operator shall initiate a program to recondition or  
22 phase out the segment involved, or, if the segment cannot be reconditioned or  
23 phased out, reduce the maximum allowable operating pressure in accordance with  
24 192.619(a) and (b). The job activities identified in Exhibit APC-1 under the heading  
25 of Continuing Surveillance represent those projects undertaken by Kansas Gas  
26 Service that involve phasing out of pipe segments determined to be in unsatisfactory

1 condition but where no immediate hazard exists. The total capital expenditures for  
2 the Continuing Surveillance projects identified in Exhibit APC-1 are \$10,838,788.

3 Q. PLEASE EXPLAIN THE CATEGORY IDENTIFIED AS SECTION 1855 KGS  
4 OPERATING AND MAINTENANCE MANUAL.

5 A. Pursuant to the Commission's Order in Docket No. 11-KGSG-177-TAR, Kansas Gas  
6 Service developed its service line replacement program to replace an average of  
7 10,000 bare steel service lines per year. Pursuant to 192.613(b), Kansas Gas  
8 Service modified Section 1855 of its Operation and Maintenance Manual to comply  
9 with the regulation. As part of this program, Section 1855 was also modified to  
10 provide that unprotected bare steel mains should also be replaced in conjunction  
11 with the replacement of multiple bare steel or unprotected bare steel residential  
12 service lines. Section 1855 further states that protected steel mains, which operated  
13 as unprotected mains before the application of cathodic protection, and supply  
14 multiple Program Service Lines or Yard Lines, may be replaced in conjunction with  
15 the replacement of bare steel service lines based upon the service history and  
16 continued serviceability of the cathodically protected steel main. The projects  
17 identified in Exhibit APC-1 lines 96 through 114 were performed in accordance with  
18 this provision of Section 1855 of our Operations Manual. The total capital  
19 expenditures for the Section 1855 KGS Operating and Maintenance Manual projects  
20 identified in Exhibit APC-1 are \$600,215.

21 Q. PLEASE PROVIDE AN EXPLANATION FOR EXHIBIT APC-2 RELATING TO  
22 GOVERNMENTALLY MANDATED RELOCATION PROJECTS.

23 A. Exhibit APC-2 identifies each governmentally mandated relocation project included in  
24 this GSRS filing. The Exhibit provides a description and location of the project, the  
25 unitization date of the project, the cost of the project and the governmental entity



1 which required the relocation of our facilities. The total expenditure for all projects  
2 identified in Exhibit APC-2 is \$5,350,933.

3 Q. MR. CELLITTI, DO THE COSTS IDENTIFIED FOR THE JOB ORDERS IDENTIFIED  
4 ON LINES 25, 59, 84, 85, 90, 92, 121, AND 122 IN EXHIBIT APC-2 REFLECT THE  
5 FULL COST OF THE JOB ORDERS?

6 A. No. The costs identified are less than the actual cost. Consistent with previous Staff  
7 recommendations, KGS has reduced the actual cost of these projects to the  
8 estimated costs that would have been incurred had KGS done a like-kind  
9 replacement. The pipe diameter installed for each of these projects was greater than  
10 the diameter of the pipe replaced. The cost included for these job orders reflects the  
11 cost for a similarly sized pipe as the one replaced. In prior GSRS filings, Staff has  
12 requested that KGS identify the cost of similarly sized pipe being replaced, which we  
13 have done here. The increased size of the pipe is appropriate to address load or  
14 pressure concerns, but we have only asked to recover the cost to replace similarly  
15 sized pipe and the appropriate amount of footage.

16 Q. PLEASE PROVIDE FURTHER DETAILS REGARDING THE COMPANY'S  
17 SERVICE LINE REPLACEMENT PROGRAM IDENTIFIED IN EXHIBIT APC-3.

18 A. As stated above, the projects relate to the replacement of service lines from the main  
19 in the street to the house. These service line replacements have been implemented  
20 for safety and government relocation reasons. The safety related reasons are two-  
21 fold. The service lines themselves may need to be replaced because of deficiencies  
22 in the service line such as leaks or corrosion. The service lines are also replaced for  
23 safety related reasons tied to safety related replacements of the main in the streets.  
24 For example, if a main must be replaced pursuant to the 5-5-3 program, it becomes  
25 necessary to replace the steel unprotected service lines and extend to reconnect the  
26 existing PE service lines. When the main is replaced in the street, the existing

1 service line is disconnected and thus is no longer useful unless reconnected and the  
2 cost to cathodically protect and reconnect the steel unprotected service line to the  
3 new main will exceed the cost of simply installing a new service line. Similar to the  
4 replacement of service line due to replacement of main for safety reasons, service  
5 lines are also replaced when the main is relocated as a result of a government  
6 mandated road relocation project. In these situations, the main must be replaced as  
7 well as replacing or extending the existing service lines which have been rendered  
8 useless through being disconnected from the old main as a result of the road  
9 relocation. Again, the cost to cathodically protect and reconnect steel unprotected  
10 service lines to the new main will exceed the cost of simply installing a new PE  
11 service line.

12 Q. PLEASE EXPLAIN THE STRUCTURE OF EXHIBIT APC-3.

13 A. In the box under the heading Blanket Service Line Summary, I have listed the  
14 categories for the reasons why the service line replacements occurred. If a service  
15 line replacement is due to a safety related requirement, the applicable safety related  
16 code requirement is listed. If the service line replacement is due to a Public  
17 Improvement, I have identified it as such. The Exhibit then sets forth the dollar value  
18 and number of service lines replaced by year by category. For example, Main  
19 Replacement Graphitization had \$20,286 in service line replacement costs involving  
20 18 service lines. In the box under the heading Non-Service Line Related Blanket  
21 Summary, there are two categories of blanket non-service line projects which I will  
22 explain below.

23 Q. COULD YOU EXPLAIN EACH OF THE SERVICE LINE REPLACEMENT  
24 CATEGORIES IDENTIFIED IN EXHIBIT APC-3?

25 A. I have placed the safety related service line replacements at the beginning of the  
26 Blanket Service Line Summary in Exhibit APC-3 and service line replacements for

1 public improvements at the bottom of the Blanket Service Line Summary. The first  
2 safety category, cast iron graphitization, involves the replacement of bare steel  
3 service lines and extensions to existing PE service lines due to the main replacement  
4 associated with the sufficiently graphitized pipe coupon. As explained in my  
5 testimony for cast iron graphitization in Exhibit APC-1, main pipe is replaced due to  
6 corrosion in the cast iron main. Kansas Gas Service must replace at least one city  
7 block of main if the coupons exhibit graphitization beyond levels stated in 192.755  
8 (c). As detailed in my testimony associated with Exhibit APC-1 for graphitization, the  
9 main was replaced due to graphitic corrosion of the main. When the mains were  
10 replaced, the existing service lines were disconnected rendering them useless. The  
11 unprotected steel service lines are being replaced as part of the project for  
12 replacement of the mains under the cast iron coupon sampling program.  
13 Replacement of the unprotected steel service lines is also supported pursuant to the  
14 requirements of 192.613 which requires among other things continuous evaluation of  
15 facilities to determine appropriate actions to take concerning changes in operating  
16 conditions. The applicable service lines were determined to be in unsatisfactory  
17 condition due to the fact the main facilities tapped by these bare steel service lines  
18 were of the same vintage as the service lines and therefore were replaced due to  
19 safety concerns resulting from corrosion. Cathodically protecting and reconnecting  
20 unprotected steel service lines is more expensive and less safe than simply replacing  
21 the unprotected service lines. As shown in Exhibit APC-3, during the period July 1,  
22 2013 through June 30, 2014, 18 service lines were replaced at a cost of \$20,286 for  
23 this category.

24 Q. PLEASE EXPLAIN THE "TRIGGERED SECTOR – NON-LEAKING  
25 UNPROTECTED PIPE" CATEGORY.

1 A. Section 192.453 requires operators, in lieu of conducting electrical surveys on  
2 unprotected steel service lines, to implement one of two options including an option  
3 to conduct annual leakage surveys on all unprotected steel service lines. The  
4 regulation further requires operators to initiate a replacement program for all service  
5 lines in a defined area when the sum of the number of unprotected steel service lines  
6 with existing or repaired corrosion leaks and the number of unprotected steel service  
7 lines already replaced due to corrosion equals 25% or more of the unprotected steel  
8 service lines installed in that defined area. The unprotected steel service lines  
9 replaced by Kansas Gas Service in this category are the non-leaking service lines  
10 replaced amongst all service lines in the sector due to the 25% trigger within the  
11 sector. As shown in Exhibit APC-3, during the period July 1, 2013 through June 30,  
12 2014, 17 service lines were replaced at a cost of \$21,470 for this category.

13 Q. PLEASE EXPLAIN THE "ROUTINE REPLACEMENT – LEAK" CATEGORY.

14 A. This category includes the replacement of service lines that were replaced due to  
15 leakage classified under the leak classification guidelines found in 192.703 and  
16 subject to 192.453 (b) which requires that unprotected steel service lines found to  
17 have active corrosion shall either be protected or replaced. As shown in Exhibit APC-  
18 3, during the period July 1, 2013 through June 30, 2014, 1,104 service lines were  
19 replaced at a cost of \$1,241,937 for this category.

20 Q. PLEASE EXPLAIN THE "MAIN REPLACEMENT – CORRODED MAIN"  
21 CATEGORY.

22 A. This category includes replacement of unprotected steel service lines that were not  
23 leaking but were disconnected from the existing main due to replacement of the  
24 corroded main that the service line was tapped into. Replacement of the unprotected  
25 steel service lines is supported pursuant to the requirements of 192.457 and 192.613  
26 which requires among other things continuous evaluation of facilities to determine

1 appropriate actions to take concerning changes in operating conditions. The  
2 applicable service lines were determined to be in unsatisfactory condition due to the  
3 fact that the main facilities tapped by these bare steel service lines were of the same  
4 vintage as the service lines and therefore were replaced due to safety concerns  
5 resulting from corrosion. Cathodically protecting and reconnecting unprotected steel  
6 service lines as would be required by 192.457 is more expensive and less safe than  
7 simply replacing the unprotected service lines. Although no immediate hazard  
8 existed on the service line, the disconnection from the main prompted replacement  
9 per 192.613 (b). As shown in Exhibit APC-3, during the period July 1, 2013 through  
10 June 30, 2014, 397 service lines were replaced at a cost of \$279,870 for this  
11 category.

12 Q. PLEASE EXPLAIN THE "ROUTINE REPLACEMENT – PROTECTED PIPE-  
13 NONLEAKING" CATEGORY?

14 A. This category includes replacement of protected steel service lines that were not  
15 leaking. Replacement reasons include issues such as: the service line was under  
16 the influence of soil subsidence found through patrolling and required replacement  
17 pursuant to 192.721; or the service line was found to be too shallow and required  
18 replacement pursuant to 192.613. As shown in Exhibit APC-3, during the period July  
19 1, 2013 through June 30, 2014, 846 service lines were replaced at a cost of  
20 \$551,367 for this category.

21 Q. PLEASE EXPLAIN THE "ROUTINE REPLACEMENT – NON LEAKING  
22 UNPROTECTED PIPE" CATEGORY.

23 A. This category includes replacement of unprotected steel service lines that were not  
24 leaking and were not associated with a main replacement project. The unprotected  
25 steel service lines were replaced to comply with various regulations including  
26 192.613 (b) which requires that piping found to be unsatisfactory must be phased out

1 or replaced. Replacement reasons include issues such as: the service line's tap was  
2 exposed during maintenance of main and corrosion was found requiring replacement  
3 pursuant to 192.453 (b); the service line was exposed during pot-holing and  
4 corrosion was found requiring replacement per 192.453 (b); the service line was  
5 under the influence of soil subsidence found through patrolling and required  
6 replacement pursuant to 192.721; and the service line was found to be too shallow  
7 and required replacement pursuant to 192.613. All service lines included in the  
8 category are subject to 192.453 which will inevitably trigger replacement of all  
9 unprotected steel lines by regulation. As shown in Exhibit APC-3, during the period  
10 July 1, 2013 through June 30, 2014, 7,665 service lines were replaced at a cost of  
11 \$9,678,794 for this category.

12 Q. PLEASE EXPLAIN THE "MAIN REPLACEMENT – PUBLIC IMPROVEMENT"  
13 CATEGORY.

14 A. As explained in my testimony above related to Exhibit APC-2, government mandated  
15 relocation projects require the Company to relocate its mains in the street and are  
16 qualified for recovery pursuant to K.S.A. 66-2202 (f) (3). Because of such main  
17 relocation, Kansas Gas Service has to extend to reconnect to PE services and also  
18 replace the unprotected steel service lines that had been connected to the replaced  
19 main. As shown in Exhibit APC-3, during the period July 1, 2013 through June 30,  
20 2014, 402 service lines were replaced at a cost of \$378,590 for this category.

21 Q. PLEASE EXPLAIN THE "PUBLIC IMPROVEMENT W/O MAIN REPLACEMENT  
22 CATEGORY.

23 A. These service line replacements resulted from a direct conflict with a governmental  
24 relocation project where no conflict existed with the main piping. In these cases, only  
25 the service line needed to be replaced, whereas the main did not need to be

1 replaced. As shown in Exhibit APC-3, during the period July 1, 2013 through June  
2 30, 2014, 8 service lines were replaced at a cost of \$8,268 for this category.

3 Q. PLEASE EXPLAIN THE CATEGORIES IN THE BOX FOR NON-SERVICE LINE  
4 RELATED BLANKET.

5 A. These blanket costs address small projects other than service lines. The first group,  
6 install anodes, is GSRS eligible pursuant to 192.455 and 192.457. The total capital  
7 expenditures for these projects are \$1,620,868. These anodes represent projects  
8 which involve 10 anodes or less and thus are included in a blanket work order.

9 The other category "Weld Sleeve High Resist Couplings" includes installation of weld  
10 sleeves over high resistance couplings which is required pursuant to 192.457 or  
11 192.455 to reduce the possibility of corrosion of pipes, thereby significantly reducing  
12 the chance for leaks and risk to the general public. The total capital expenditures for  
13 these projects are \$185,545.

14 Q. PLEASE EXPLAIN EXHIBIT APC-4?

15 A. Exhibit APC-4 sets forth the applicability of 192.613 to those safety related projects  
16 identified in Exhibit APC-1. There are 65-(sixty five) projects that are identified in  
17 APC-1 whose inclusion as a safety related project is eligible for recovery under  
18 K.S.A. 66-2201 pursuant to 192.613 in whole or in part.

19 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

20 A. Yes.

**VERIFICATION**

STATE OF KANSAS                    )  
  ) ss.  
COUNTY OF JOHNSON            )

Anthony P. Cellitti, being duly sworn upon his oath, deposes and states that he is Manager of Engineering for Kansas Gas Service, a Division of ONE Gas, Inc.; that he has read and is familiar with the foregoing Direct Testimony filed herewith; and that the statements made therein are true to the best of his knowledge, information, and belief.

*Anthony P. Cellitti*  
ANTHONY P. CELLITTI

Subscribed and sworn to before me this 22<sup>nd</sup> day of August, 2014.

*Stephanie Fleming*  
NOTARY PUBLIC

My Appointment Expires:

06/05/18





A	B	C	D	E	F	G	H	I	J
Line No.	GSRS Qualification	Safety Regulation	Unitization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Costs
1	5-5-3 Program Replacement	192.465 (h) and 192.613 (b)	10/31/2013	3532	054	10296	GSRS 553 Replace 854' of 2" BS & 41' of 2" CS main with 815' of 2" CS & 316' of 2" PE pipe due to 8 leaks found on the main. Located south of TBS along Chickadee Rd, 4th St and Ash St in Fairview, KS	37600	\$7,561
2	5-5-3 Program Replacement	192.465 (h) and 192.613 (b)	10/31/2013	3532	054	10296	GSRS 553 Replace 854' of 2" BS & 41' of 2" CS main with 815' of 2" CS & 316' of 2" PE pipe due to 8 leaks found on the main. Located south of TBS along Chickadee Rd, 4th St and Ash St in Fairview, KS	37650	\$22,623
3	5-5-3 Program Replacement	192.465 (h) and 192.613 (b)	10/31/2013	3532	054	10296	GSRS 553 Replace 854' of 2" BS & 41' of 2" CS main with 815' of 2" CS & 316' of 2" PE pipe due to 8 leaks found on the main. Located south of TBS along Chickadee Rd, 4th St and Ash St in Fairview, KS	38000	\$5
4	5-5-3 Program Replacement	192.465 (h) and 192.613 (b)	12/31/2013	3522	054	011173	GSRS 553 Install 1,600' of 4" PE main along Stanley, taking care to insert PE main into existing 6" APBS main under railroad tracks. Retire 1,540' of 6" APBS main with 6 active and 6 repaired leaks, KCK	37600	\$110,137
5	5-5-3 Program Replacement	192.465 (h) and 192.613 (b)	2/21/2014	3741	054	010260	GSRS 553 Replace 1245' of 2" APBS with 1245 of 2" PE at 300 S Main, Grenola. There are 5 inactive leaks and 0 active leaks located on main.	37600	\$16,746
<b>5-5-3 Program Replacement Total</b>									<b>\$157,072</b>
6	Cast Iron Graphitization	192.755 (c) and 192.613 (b)	9/5/2013	3541	054	010535	GSRS CI Graph Replace 635 4" CI w 590 4" PE due to corrosion 120 day, connect to high pressure, leak # 1250361 SW Canterbury & Oakley Topeka	37600	\$23,831
7	Cast Iron Graphitization	192.755 (c) and 192.613 (b)	10/31/2013	3541	054	010531	GSRS CI Graph Replace 469' 6" CI, 113 4" CI, 11' 4" PE, 2' 6" CS with 645' 4" PE due to leak # 1246915 due to corrosion. SW10th & Crest DR, Topeka	37600	\$25,090
8	Cast Iron Graphitization	192.755 (c) and 192.613 (b)	10/31/2013	3541	054	010531	GSRS CI Graph Replace 469' 6" CI, 113 4" CI, 11' 4" PE, 2' 6" CS with 645' 4" PE due to leak # 1246915 due to corrosion. SW10th & Crest DR, Topeka	37650	\$1,256
9	Cast Iron Graphitization	192.755 (c) and 192.613 (b)	1/3/2014	3541	054	010538	GSRS CI Graph Retire 580 ft 4" CI Install 800 ft 4" PE SW Parkview Ave btwn 10th & 11th Topeka. No IP available. Main had to remain LP & be fed from 4" PE a block away to keep from breaking out 10th to tie onto 10" CI	37600	\$23,489
10	Cast Iron Graphitization	192.755 (c) and 192.613 (b)	2/14/2014	3541	054	010536	GSRS CI Graph Replace 1920' 4" CI with 2257' 2" PE main due to 120 day sample ID # 1213179. Main will be installed mostly under existing sidewalk. SW Medford, High SW 7th, Topeka	37600	\$76,912
11	Cast Iron Graphitization	192.755 (c) and 192.613 (b)	2/21/2014	3541	054	010539	GSRS CI Graph Install 770 ft of 2" PE to retire 770 ft of 4" DI NW 56th and Topeka Blvd, Topeka	37600	\$25,697
12	Cast Iron Graphitization	192.755 (c) and 192.613 (b)	4/24/2014	3541	054	010543	GSRS CI Graph Install 900 FT of 2" PE to retire 900 FT of 6" CI. 1500 SW 15th & Jewell, Topeka	37600	\$20,515
<b>Cast Iron Graphitization Total</b>									<b>\$196,790</b>
13	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	8/26/2013	3721	054	011517	Install 814' of 2" PE (IP) to clear two leaks and abandon 814' of 4" CI at Edgmoor and 1st Street in Wichita KS. There are 2 BS services.	37600	\$50,024
14	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	9/20/2013	3522	054	011134	CI replacement. Install 1,680' of 2" PE (IP) main and abandon 1,370' of 6" CI with a class 2 leak. 12 BS services will be eliminated. N 18th and Taoumee Ave KCK	37600	\$125,438
15	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	10/31/2013	3721	054	011556	GSRS CI replacement. Install 7' of 2" PE & upgrade 2" PE from Orme to Kellogg between Erie and Chautauqua. Abandon 342' of 8" CI in Wichita	37600	\$9,570
16	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	12/30/2013	3721	053	010277	CI replacement. Install 5,445' of 2" PE & 3,184' of 4" PE (IP) main. Retire 6,240' of 4" & 8" CI, a DRS 0083 and 37 BS service lines. 13th & Oliver Phase III, Wichita	37600	\$179,880
17	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	12/30/2013	3721	053	010277	CI replacement. Install 5,445' of 2" PE & 3,184' of 4" PE (IP) main. Retire 6,240' of 4" & 8" CI, a DRS 0083 and 37 BS service lines. 13th & Oliver Phase III, Wichita	38000	\$832

A	B	C	D	E	F	G	H	I	J
Line No.	GSRs Qualification	Safety Regulation	Unitization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Costs
18	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	12/31/2013	3522	054	011172	CI Replacement. Install 850' of 2" PE main along Scott Ave. and neighboring streets to eliminate deteriorated pipe. Retire 1,010' of 4" CI main in KCK	37600	\$27,049
19	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	2/14/2014	3522	054	011185	CI Replacement. To install 895' 6" PE, 2145' 2" PE, 10' 4" PE and retire 1433' 12" CI, 1310' 4" CI, 226' 6" CI, and 5' 12" steel main 10rh & Pacific, KCK	37600	\$161,645
20	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	2/14/2014	3541	054	010525	Replace leaking 1826' 6" DI with 1920' 6" PE on NW Topeka Blvd, N of NW 46th Road construction to NW 50th St. Replace leaking 1859' 4" DI with 770' 4" PE & 1490' 2" PE NW 48th Ter, Haven, & 50th St. 12 BS services. Topeka	37650	\$138,027
21	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	2/14/2014	3721	054	011579	CI replacement Install 3800' of 2" PE and 10' of 4" PE and retire 2,165' of 4" CI at Lincoln and Alley West of Santa in order to clear 5 active class 3 leaks. Wichita	37600	\$110,705
22	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	2/14/2014	3721	054	011582	CI replacement. Install 3,340' of 2" PE and 790' of 4" PE (IP) main. Retire 3,155' of 8" CI main at Edgemoor to Woodlawn on 9th. This work will clear 3 active leaks, 3 inactive leaks and 22 BS service lines. Wichita	37600	\$103,677
23	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	3/3/2014	3522	053	010039	CI replacement. Install 3,390' of 2" PE, 2,450' of 4" PE (IP) main. Retire 1,450' of 6" CI 4,000' of 4" CI. 32nd & Parallel. Renew 40 BS service lines. KCK	37600	\$230,895
24	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	5/2/2014	3522	054	011182	CI replacement. Install 3200' 2" PE (15 psig) main. Retire 2" BS, 1,700' 4" CI and 1280' 6" CI mains. Renew 22 BS services. 27th and Brown Phase 2A, KCK	37600	\$71,887
25	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	5/2/2014	3522	054	011183	CI replacement. Install 2000' 2" PE, 130' 4" PE (15 psig) main. Retire 2335' 4" CI and 969' 6" CI main clearing 2 active & 8 inactive leaks and renewing 8 BS services. 27th and Brown phase 2B, KCK	37600	\$50,148
26	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	5/2/2014	3522	054	011183	CI replacement. Install 2000' 2" PE, 130' 4" PE (15 psig) main. Retire 2335' 4" CI and 969' 6" CI main clearing 2 active & 8 inactive leaks and renewing 8 BS services. 27th and Brown phase 2B, KCK	37650	\$1,542
27	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	5/2/2014	3522	054	011184	CI Rplmnt. Install 2,150' 4" PE & 3,225' 2" PE (15 psig) main. Retire 2,100' 12" CI, 1,450' 6" CI, & 1,394' of 4" CI main clearing 5 active leaks & 21 inactive leaks & renewing 21 BS services 27th & Brown Phase 2C. KCK	37600	\$121,469
28	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	5/2/2014	3522	054	011184	CI Rplmnt. Install 2,150' 4" PE & 3,225' 2" PE (15 psig) main. Retire 2,100' 12" CI, 1,450' 6" CI, & 1,394' of 4" CI main clearing 5 active leaks & 21 inactive leaks & renewing 21 BS services 27th & Brown Phase 2C. KCK	37650	\$38,604
29	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	6/3/2014	3721	053	010188	CI replacement. Install 400' of 2" PE and abandon 385' of 4" CI, 99' of 4" BS, 24' of 2" PE, 447' of 2" BS at Vassar and Orchard, Wichita	37600	\$10,863
30	Cast Iron Replacement	KCC Docket No. 12-KGSG-721-TAR and 192.613 (b)	6/17/2014	3721	053	010334	Replace 751' of 4" CI, 167' of 4" RPBS, & 50' OF 4" RPCS mains with 675' of 2" PE main on S Pershing Ave from E Orme St north to E Kellogg Dr as part of the 2014 CI replacement program, Wichita	37650	\$25,237
<b>Cast Iron Replacement Total</b>									<b>\$1,457,493</b>
31	Cathodic Protection	192.455 and 192.457	7/31/2013	3642	053	010019	Install 160' of 2" PE main due to low cathodic protection reads. Location in easement N of Morris ST beginning in alley E of Main ST, running E for 160'. Retire 155' of 2" BS main and essential valve 0003-l. Burr Oak.	37600	\$3,523
32	Cathodic Protection	192.455 and 192.457	8/26/2013	3631	056	010076	Replace rectifier cable due to being cut 2004 N Severence, Hutchinson	37600	\$1,707
33	Cathodic Protection	192.455 and 192.457	9/30/2013	3721	054	011382	Install 15 Anotec 2660 anodes in a new ground bed, to replace depleted deep-well. Location is the West half of the former RR ROW East of 1628 N Broadway ST. Rectifier at RECT #628 replaced. Wichita	37650	\$45,948
34	Cathodic Protection	192.455 and 192.457	9/30/2013	3721	054	011519	Replace depleted deep well ground bed at West and Elm. Wichita	37600	\$35,885
35	Cathodic Protection	192.455 and 192.457	9/30/2013	3721	054	011520	Replace depleted deep well ground bed with Enviranode System in Newton	37650	\$40,172

A	B	C	D	E	F	G	H	I	J
Line No.	GSRs Qualification	Safety Regulation	Unitization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Costs
36	Cathodic Protection	192.455 and 192.457	9/30/2013	3721	056	010258	To provide cathodic protection for 213 miles of bare steel and install the necessary anodes, bonds and test stations to bring the bare steel under protection in Wichita & vicinity.	37650	\$173,994
37	Cathodic Protection	192.455 and 192.457	10/31/2013	3721	054	011510	Replace the depleted deep well ground bed and rectifier at Rect #0486 near the intersection of S St Paul St & W Merton St in Wichita, KS	37650	\$52,847
38	Cathodic Protection	192.455 and 192.457	10/31/2013	3721	054	011511	Replace the depleted deep well ground bed with an SAE Environode system at Rect #540 near Walker St & West St in Wichita, KS	37650	\$46,176
39	Cathodic Protection	192.455 and 192.457	12/2/2013	3642	056	010087	Install approx 3000' #2 wire in the 300 thru 500 block of NW 8TH ST to cut cable off the 6" BS (dead line) not carrying current. Ellsworth	37650	\$37,717
40	Cathodic Protection	192.455 and 192.457	2/14/2014	3642	054	010220	Install 38' of 1 1/4" PE main in the alley W of 4th ST, beginning at a point approx. 40' S CL alley N of Court ST, running south for 38'. This will retire 38' of 2" BS due to low cathodic protection reads. Lincoln	37600	\$1,638
41	Cathodic Protection	192.455 and 192.457	2/21/2014	3642	053	010023	Replace depleted ground bed at 3RD & Lincoln, Luray, KS. Location #0260	37650	\$13,118
42	Cathodic Protection	192.455 and 192.457	2/21/2014	3622	054	010208	Replaced malfunctioning rectifier #0506.	37600	\$9,632
43	Cathodic Protection	192.455 and 192.457	2/21/2014	3721	054	011591	Replace depleted deep well groundbed at 1818 E Murdock, Wichita due to malfunctioning deep-well groundbed.	37600	\$16,862
44	Cathodic Protection	192.455 and 192.457	3/3/2014	3621	056	010208	Install a new Universal ES - 20V, 10A rectifier and a new 5 anode horizontal ground bed on Saereta St near Sarratov St in Pfeifer, KS to eliminate 7 CPIRs on 8,413' of pipe	37600	\$20,175
45	Cathodic Protection	192.455 and 192.457	3/26/2014	3642	056	010090	Install anodes and bond couplings to cathodically protect the system. Smith Center	37600	\$1,682
46	Cathodic Protection	192.455 and 192.457	3/26/2014	3811	056	010048	To locate and bond couplings, remove shorts, and install anodes on unprotected steel pipe to extend its useful life in the Baxter Springs Area.	37650	\$7,869
47	Cathodic Protection	192.455 and 192.457	3/27/2014	3622	054	010204	Replace depleted deep well ground bed with new 15 anode horizontal ground bed near W 7 ST & S High ST in Pratt, KS	37600	\$23,205
48	Cathodic Protection	192.455 and 192.457	4/24/2014	3621	054	010240	A new vertical distributed, 12 anode ground bed and rectifier will replace the existing 15 anode ground bed and rectifier that is no longer producing current. Great Bend.	37650	\$32,115
49	Cathodic Protection	192.455 and 192.457	5/2/2014	3521	053	010039	Replace existing rectifier groundbed with one Graphite anode, 75 ft of stranded cable, 2 splice kits, and 1000 lbs of coke breeze. Mary & Mitchell , Greeley	37650	\$2,256
50	Cathodic Protection	192.455 and 192.457	5/2/2014	3622	054	010209	The new 15-anode ground bed will be installed to replace the old one. Pratt	37650	\$19,789
51	Cathodic Protection	192.455 and 192.457	5/2/2014	3721	054	011632	Replace rectifier. The current deep well is full of HCl and rectifier #673 is not currently active. The new deep well will be drilled in existing easement. Filmore & SE Louis, Mulvane	37600	\$27,406
52	Cathodic Protection	192.455 and 192.457	5/2/2014	3521	056	010048	Install an impressed current ground bed to replace an existing ground bed which has become depleted. Melvern RD West of Summit ST, Melvern	37650	\$3,170
53	Cathodic Protection	192.455 and 192.457	5/2/2014	3532	056	010088	Installing ground bed and rectifier in Horton, Ks at 7th Ave W in alley bet. W 13th & W 14th	37650	\$25,936

A	B	C	D	E	F	G	H	I	J
Line No.	GSRs Qualification	Safety Regulation	Utilization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Costs
54	Cathodic Protection	192.455 and 192.457	5/2/2014	3761	056	010063	To locate and bond couplings, remove shorts and install anodes on unprotected steel pipe to extend its useful life in the Pittsburg area.	37600	\$21,483
55	Cathodic Protection	192.455 and 192.457	5/2/2014	3761	056	010064	To install a new Ground Bed Rectifier in Girard to adequately supply enough current to protect this rectified system in Girard. This Ground Bed will be located near Osage and Northern.	37650	\$32,323
56	Cathodic Protection	192.455 and 192.457	5/2/2014	3781	056	010017	To locate and bond couplings, remove shorts, and install anodes on unprotected steel pipe to extend its useful life in the Fort Scott Area.	37650	\$3,060
57	Cathodic Protection	192.455 and 192.457	5/5/2014	3522	056	010299	Install a double solar panel to provide cathodic protection to the 2" APBS main that runs along Mission Road south of Alhambra Street, Overland Park.	37600	\$6,076
58	Cathodic Protection	192.455 and 192.457	6/2/2014	3685	046	010186	This JO to install a new ground bed and rectifier on Line 0853 at MP 25.3	36700	\$22,201
59	Cathodic Protection	192.455 and 192.457	6/2/2014	3685	046	010187	This JO to install a new ground bed and rectifier on Lines 2001 & 2402 at MP 80	36700	\$49,574
60	Cathodic Protection	192.455 and 192.457	6/2/2014	3831	054	010204	To apply primer & coating to BS main under six roadway bridges. At Labette Creek on 21st, North Blvd & Country Club, Little Labette Creek on 21st & 32nd, and Cow Creek on HWY 59 in Parsons, KS	37650	\$90,064
61	Cathodic Protection	192.455 and 192.457	6/2/2014	3653	056	010099	Seneca - Cathodically protect Seneca, Beattie, Axtell, Centralia, Vermillion	37650	\$25,992
62	Cathodic Protection	192.455 and 192.457	6/2/2014	3721	056	010259	To provide cathodic protection for 195 miles of bare steel and install the necessary anodes, bonds and test stations to bring the bare steel under protection in Wichita & vicinity Q2 2013	37650	\$194,336
63	Cathodic Protection	192.455 and 192.457	6/2/2014	3721	056	010261	To provide cathodic protection for 189 miles of bare steel and install the necessary anodes, bonds and test stations to bring the bare steel under protection in Wichita & vicinity Q4-2013	37650	\$78,022
64	Cathodic Protection	192.455 and 192.457	6/3/2014	3612	046	010109	Install a remote cathodic monitoring radio system at McPherson East TBS (2404-85.5)	36700	\$5,470
65	Cathodic Protection	192.455 and 192.457	6/3/2014	3541	053	010095	Install 32# anodes on the 8" BS main on California from 21st to 27th due to low cathodic protection reads. Topeka	37600	\$23,958
66	Cathodic Protection	192.455 and 192.457	6/3/2014	3521	054	010203	Install new groundbed. 335th and Plum Creek RD, Osawatomie	37650	\$20,053
67	Cathodic Protection	192.455 and 192.457	6/3/2014	3622	054	010202	Replace the deteriorated solar rectifier (RECT #1245) at the intersection of the alley N of W Locust Ave between S 1st St & S 2nd St in Englewood with a new conventional electric powered rectifier	37650	\$4,152
68	Cathodic Protection	192.455 and 192.457	6/3/2014	3622	054	010210	The new 15-anode ground bed will be installed to replace the old one. Pratt.	37650	\$23,194
69	Cathodic Protection	192.455 and 192.457	6/3/2014	3642	056	010089	Install anodes and bond couplings to cathodically protect the system. Beloit.	37600	\$13,451
70	Cathodic Protection	192.455 and 192.457	6/3/2014	3651	056	010112	Manhattan - Install anodes and bond couplings in Manhattan area #1. 39 Anodes & 7 Bond Couplings (Alta Vista, Dwight, Belvue, Ogden)	37650	\$9,900
71	Cathodic Protection	192.455 and 192.457	6/3/2014	3651	056	010114	Wamego - Install Rectifier @ north end of Deborah Ln so we can reduce the number of anodes we have to install on existing steel pipe	37650	\$29,530

A	B	C	D	E	F	G	H	I	J
Line No.	GSRs Qualification	Safety Regulation	Unitization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Costs
72	Cathodic Protection	192.455 and 192.457	6/3/2014	3652	056	010117	Clay Center/Chapman/Wakefield - Install anodes & bond couplings to cathodically protect system	37650	\$17,472
73	Cathodic Protection	192.455 and 192.457	6/3/2014	3612	046	010111	This JO is to install a new ground bed and rectifier on Line 0453 MP 4	36700	\$28,843
74	Cathodic Protection	192.455 and 192.457	6/4/2014	3652	056	010118	Junction City Install anodes & Bond couplings to cathodically protect system.	37600	\$25,237
75	Cathodic Protection	192.455 and 192.457	6/4/2014	3653	056	010101	Marysville - Cathodically protect Marysville/Linn/Blue Rapids by installing anodes & bond couplings	37650	\$16,734
76	Cathodic Protection	192.455 and 192.457	6/17/2014	3642	053	010024	Relocate Universal 18V 13A rectifier unit #0216 and a graphite anode horizontal ground bed from Main and Independence to 2nd and Baldwin, Beloit, KS	37650	\$23,044
77	Cathodic Protection	192.455 and 192.457	6/17/2014	3721	054	011636	The current deep well has been producing chlorine and will be capped. The new conducrete system will use 15 anodes. Rectifier #587, Wichita	37650	\$21,852
78	Cathodic Protection	192.455 and 192.457	6/17/2014	3831	054	010209	Install new 6V-5A ES rectifier unit and 3 Anotec anodes w/35' #6 wire leads at N 49th ST & 24500ST in Parsons, KS	37650	\$11,669
79	Cathodic Protection	192.455 and 192.457	6/17/2014	3831	054	010211	Install a new 6V-12 AMP ES-11 rectifier unit and 4 Anotec anodes W/450'-#6 wire leads in 135th RD, Erie, KS.	37650	\$17,375
<b>Cathodic Protection Total</b>									<b>\$1,457,885</b>
80	Continuing Surveillance	192.613 (b)	7/31/2013	3612	043	010028	Trans Install 11.5 miles of 3" cs in Line 0311, MP 14 to MP 27, to replace existing 3" BS pipeline located in Pottawatomie County, KS. Part of BS replacement program to replace assets that have reached their useful life.	36700	\$2,671,842
81	Continuing Surveillance	192.613 (b)	7/31/2013	3612	043	010027	Trans - Install 4.8 miles of 3" cs in Line 0301, MP 0 to MP 5, to replace existing 3" BS pipeline, located in Marshall County, KS. Part of BS replacement program to replace assets that have reached their useful life.	36700	\$1,019,712
82	Continuing Surveillance	192.613 (b)	8/26/2013	3612	043	010043	Transmission - Replace exposed pipeline @ 2 creek locations 788' at MP 15.2 & 600' at MP 17.7 on Line 0621. Marshal County.	36700	\$186,070
83	Continuing Surveillance	192.613 (b)	2/21/2014	3612	043	010044	Transmission Replace exposed pipeline @ creek crossing. Install 855' of 2" cs. Retire 855' of Line 0218. Located in W/2 Section 24, T02S - R10E Marshall County, beginning at ST 87+19 and ending at ST 95+74.	37650	\$66,958
84	Continuing Surveillance	192.613 (b)	5/2/2014	3612	043	010053	Transmission - Install 6.5 miles of 8" coated steel in Line 0846, MP 5.5 to MP 12.5 to replace existing 8" steel main which has disbondment problems with the no-oxide coating. McPherson County.	36700	\$2,636,261
85	Continuing Surveillance	192.613 (b)	5/2/2014	3612	043	010053	Transmission - Install 6.5 miles of 8" coated steel in Line 0846, MP 5.5 to MP 12.5 to replace existing 8" steel main which has disbondment problems with the no-oxide coating. McPherson County.	36900	\$27,370
86	Continuing Surveillance	192.613 (b)	6/2/2014	3612	043	010050	Transmission - Install 4.6 miles 3" cs in Line 0301, MP 5 to MP 10, to replace existing 3" BS pipeline located in Marshall County, KS. Part of BS replacement program to replace assets that have reached their useful life.	36700	\$1,115,482
87	Continuing Surveillance	192.613 (b)	6/4/2014	3612	043	010051	Install 5.8 miles of Line 0248 MP 0 TO MP 6.5 to replace 5.8 miles of 3" BS pipeline located in Washington County. This is part of the bare steel replacement program to replace assets that have reached their useful life.	36700	\$1,290,281
88	Continuing Surveillance	192.613 (b)	6/17/2014	3685	043	010017	Trans - Replace 1.7 miles-6" BS Line 0625, 3.3 miles-3" BS Line 0320, & 1.3 miles-8" BS Line 0857 with 6 3 miles 4" CS pipe in Clark & Comanche Counties, KS as part of BS Replacement Program based on DOT PHMSA	36700	\$1,726,671
89	Continuing Surveillance	192.613 (b)	10/31/2013	3541	053	010096	Replace exposed main @ creek crossing US Hwy 56 & S Lewelling RD, Scranton. Install 358' 4" coated steel, retire 434' of 4" coated steel.	37650	\$23,835



A	B	C	D	E	F	G	H	I	J
Line No.	GSRS Qualification	Safety Regulation	Utilization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Costs
90	Continuing Surveillance	192.613 (b)	2/14/2014	3622	054	010201	Install 1,650' 2" PE in alley btwn E 2nd & Stopl & btwn Main & Walnut. Retire 1531' of 2" RPBS & 119' of 2" cs. Total of 13 clamps in this portion of main. Medicine Lodge	37600	\$47,605
91	Continuing Surveillance	192.613 (b)	3/3/2014	3541	053	010112	Replace exposed main @ creek crossing. Retire 230' 4" coated steel & install 300' of 4" coated steel main. This creek has a high volume of water & debris is up against main. 25th & Arrowhead, Topeka	37600	\$11,319
92	Continuing Surveillance	192.613 (b)	3/26/2014	3811	053	010050	Replace exposed main @ creek crossing. Install 150' 2" PE, retire 150' 2" bare steel. Main had previous leakage nearby. California & Bennett, Columbus.	37600	\$4,168
93	Continuing Surveillance	192.613 (b)	5/22/2014	3642	054	010218	Replace exposed main in alley. Install 420' of 2" PE main & retire 420' of 2" BS main @ South ST & 5th ST, Lincoln	37600	\$5,963
94	Continuing Surveillance	192.613 (b)	5/22/2014	3642	054	010218	Replace exposed main in alley. Install 420' of 2" PE main & retire 420' of 2" BS main @ South ST & 5th ST, Lincoln	37650	\$873
95	Continuing Surveillance	192.613 (b)	12/20/2013	3621	054	010239	Replace 90' of 1-1/4" RPCS & 156' of 1-1/4" BS mains with 246' of 2" PE because of class 3 leak time limit & eliminate 3 BS service lines in the alley between E 10th St & E 11th St west of N Columbia St in Lacrosse, KS	37600	\$4,378
<b>Continuing Surveillance Total</b>									<b>\$10,838,788</b>
96	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	7/31/2013	3721	054	011453	Replace 2" BS pipe in conjunction with BS S/L program at Murdock to Harding, Parkwood & Ridgewood to 9th. Replace with approx 3446' of 2" PE & 721' of 4" PE. Retires LK10-94025,11-20156, 11-20197. 52 BS service	37600	\$78,949
97	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	7/31/2013	3721	054	011453	Replace 2" BS pipe in conjunction with BS S/L program at Murdock to Harding, Parkwood & Ridgewood to 9th. Replace with approx 3446' of 2" PE & 721' of 4" PE. Retires LK10-94025,11-20156, 11-20197. 52 BS service	37650	\$6,951
98	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	8/26/2013	3532	053	010058	Replace 585' 2" BS main with 337' 2" CS & 105 2" PE in easement between E 1st Ave & E 2nd Ave. This is in conjunction with the BS S/L replacement Horton. 6 BS S/L	37600	\$2,258
99	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	8/26/2013	3532	053	010058	Replace 585' 2" BS main with 337' 2" CS & 105 2" PE in easement between E 1st Ave & E 2nd Ave. This is in conjunction with the BS S/L replacement Horton. 6 BS S/L	37650	\$15,710
100	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	9/5/2013	3541	054	010517	Replace 670' 6" BS, 65' 6" cs, 259' 2" BS & 29' 4" PE with 1025 2" PE (IP) Eliminates 1 active leak 2011-415 & 2 inactive leaks 2006-1023, 2003-124. Bare steel replacement in conjunction with BS 6 S/L replacement Topeka	37600	\$33,492
101	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	9/20/2013	3542	053	010029	Replace 578' of obsolete 3" & 2" bare steel main with 578' 2" PE in alleys each side of Schofield and north of 1st St. This is in conjunction with the BS S/L replacement. (7 BS service line replacements) Waverly	37600	\$22,790
102	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	12/2/2013	3911	054	010120	Install 5,138' 2" PE @ 1201 Money Trailer Park, Augusta. Retire 6,617' of 2" BS in conjunction with the BS S/L replacement (42 BS service lines).	37600	\$85,898
103	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	12/2/2013	3911	054	010120	Install 5,138' 2" PE @ 1201 Money Trailer Park, Augusta. Retire 6,617' of 2" BS in conjunction with the BS S/L replacement (42 BS service lines).	37650	\$251
104	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	12/20/2013	3621	053	010044	Install 130' of 2" PE main in the alley between N Main St & N Iron St north of 4th St in Victoria, KS in order to facilitate the proper replacement of 2 BS SL to 412 & 414 N Main	37600	\$501
105	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	12/30/2013	3721	054	011592	Repl 2" & 4" BS main in conjunction with BS S/L replace Pine & Ridgewood; Elm & Battin. Install 5,341' 2" PE & upgrade. Clears 3 active LKs 44 BS services	37600	\$78,557
106	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	12/30/2013	3721	054	011592	Repl 2" & 4" BS main in conjunction with BS S/L replace Pine & Ridgewood; Elm & Battin. Install 5,341' 2" PE & upgrade. Clears 3 active LKs 44 BS services	38000	\$5,538
107	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	12/31/2013	3622	053	010035	Replace ~150' of BS SL & YL with ~100' of 2" PE SL and ~50' of 4" PE YL at 108 E 2nd Ave in Medicine Lodge in conjunction with main replacement project #051.054.3622.010201	38000	\$8,973

A	B	C	D	E	F	G	H	I	J
Line No.	GSRs Qualification	Safety Regulation	Unitization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Costs
108	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	3/3/2014	3635	053	010049	Replace 1188' of 4" BS with 1352' 2" PE in alley east of Main between Saline to Olsson. This is in conjunction with the BS S/L replacement (9 bare steel services). Lindsborg	37600	\$57,577
109	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	3/26/2014	3721	054	011599	Replace 12' of 3" BS S/L and 585' of yardline with 665' of 4" PE S/L at Brooks Middle School Wichita	38000	\$2,140
110	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	3/26/2014	3721	054	011626	Replace 396' of 2" & 451' of 3" RPBS near the intersection of W Broadway & N Santa Fe St with 100' of 2" & 490' of 4" TF to clear a class 3 leak, 3 BS service lines and eliminate parallel mains. Newton	37600	\$36,622
111	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	6/2/2014	3721	054	011456	Repl various sizes of CI and BS main with approx 1,272' of 2" PE main & 8 BS services in conjunction with BS S/L replacement in the easement of Waco and W. 20th south to W. 17th with 2" PE main. Wichita	37600	\$129,256
112	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	6/27/2014	3721	054	011663	Install 620' 4" PE & 83' of 2"cs to retire 317' 3" BS, 459' 4" BS & 38' of 2" BS to eliminate obsolete fittings. 6 BS S/L Central & Mulvane ST, Mulvane	37600	\$33,329
113	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	6/27/2014	3721	054	011663	Install 620' 4" PE & 83' of 2"cs to retire 317' 3" BS, 459' 4" BS & 38' of 2" BS to eliminate obsolete fittings. 6 BS S/L Central & Mulvane ST, Mulvane	37650	\$1,283
114	Section 1855 KGS Operating and Maintenance Manual	KCC Docket No. 11-KGSG-177-TAR and 192.613 (b)	6/27/2014	3721	054	011663	Install 620' 4" PE & 83' of 2"cs to retire 317' 3" BS, 459' 4" BS & 38' of 2" BS to eliminate obsolete fittings. 6 BS S/L Central & Mulvane ST, Mulvane	38000	\$141
<b>Section 1855 KGS Operating and Maintenance Manual Total</b>									<b>\$600,215</b>
<b>Grand Total</b>									<b>\$14,708,241</b>

Relocation Expenditures

A	B	C	D	E	F	G	H	I	J
Line No.	GSRS Qualification	Utilization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
1	Public Improvement	7/31/13	3522	055	010820	Install 116'-2" T/F on Martway between Dearborn & Beverly. Retire 66'-2" APCS due to conflict with storm boxes being installed for City of Mission storm project.	37650	\$11,720	City of Mission
2	Public Improvement	7/31/13	3522	055	010863	Storm box was not accounted for in W/O: 051.055.3522.010835. Install box on Fairview Hts. Retire 30' 2" PE, install 40' OF 2" PE. City of Shawnee.	37600	\$1,267	City of Shawnee
3	Public Improvement	7/31/13	3522	055	010867	GSRSEL-City of Overland Park, Ks. Abandon 80 ft of existing 6" APBS. Install 80 ft of 6" MDPE through 10" casing under new bus corridor. 75th & Metcalf	37600	\$3,514	City of Overland Park
4	Public Improvement	7/31/13	3522	055	010867	GSRSEL-City of Overland Park, Ks. Abandon 80 ft of existing 6" APBS. Install 80 ft of 6" MDPE through 10" casing under new bus corridor. 75th & Metcalf	37650	\$24,796	City of Overland Park
5	Public Improvement	7/31/13	3721	055	010355	Lower 350'-2" PE main in conflict with City of Wichita RD project in 135th ST West, North of Kellogg/HWY 54	37600	\$4,631	City of Wichita
6	Public Improvement	7/31/13	3541	055	010222	Install 4,630' 4" cs from Topeka Blvd to Adams. Retire 4,958' of 4" RPCS, 170' of 2" RPCS & 460' of 1 1/4 RPCS that is in conflict with Shawnee County RD Improvement project.	37600	\$5,415	Shawnee County
7	Public Improvement	7/31/13	3541	055	010222	Install 4,630' 4" cs from Topeka Blvd to Adams. Retire 4,958' of 4" RPCS, 170' of 2" RPCS & 460' of 1 1/4 RPCS that is in conflict with Shawnee County RD Improvement project.	37650	\$184,069	Shawnee County
8	Public Improvement	8/26/13	3541	055	010244	Install 280' of 2" & 205' of 4" PE on Prairie & on 10th due to City of Topeka RD improvement project. Existing main will be in the way of the new road improvements.	37600	\$29,592	City of Topeka
9	Public Improvement	8/26/13	3541	055	010246	City of Topeka is replacing the top part of manhole and existing 4" PE is in it. New 4" PE will be installed around manhole.	37600	\$9,652	City of Topeka
10	Public Improvement	8/26/13	3721	055	010377	49th ST N & Broadway Park City. Abandon 110' of 2" cs in conflict with Park City stormwater project. Condition of pipe found during construction required 24' of 2" cs main installation.	37600	\$5,620	City of Park City
11	Public Improvement	9/5/13	3541	055	010227	Relocate 6" & 4" PE mains in conflict with County Rd project NW 46th between Rochester & Topeka Blvd & the intersections at NW Rochester & NW Topeka Blvd. Shawnee Co is installing round-a-bouts at both intersections.	37600	\$119,255	Shawnee County
12	Public Improvement	9/30/13	3522	055	010871	Install 1350' of 6" PE on 63rd between Roe and Granada. Retire 1302 ft of 6" APCS in conflict with City of Prairie Village street drainage project.	37650	\$16,905	City of Prairie Village
13	Public Improvement	9/30/13	3541	055	010251	Relocate 1313' 6" RPCS main to KGS esmt on SW 21st, Broadview to Kingsrow. Kill 2800' 6" CS in conflict with City of Topeka Rd Widening Project on SW 21st, Urish to Wanamaker. Inst 700' 2"PE to move svcs off 6" for kill.	37600	\$1,749	City of Topeka



Relocation Expenditures

A	B	C	D	E	F	G	H	I	J
Line No.	GSRs Qualification	Utilization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
14	Public Improvement	9/30/13	3541	055	010251	Relocate 1313' 6" RPCS main to KGS esmt on SW 21st, Broadview to Kingsrow. Kill 2800' 6" CS in conflict with City of Topeka Rd Widening Project on SW 21st, Urish to Wanamaker. Inst 700' 2" PE to move svcs off 6" for kill.	37650	\$163,079	City of Topeka
15	Public Improvement	9/30/13	3541	055	010263	Existing 4" PE will be in the way of the new RCP being installed by City of Topeka. Install 40' of 4" PE. .	37600	\$1,259	City of Topeka
16	Public Improvement	10/31/13	3522	055	010878	Install 75' 2" PE. Retire 55' 2" PE main due to main crossing Flint is very shallow and is in conflict with mill and overlay for City of Shawnee. 71st Terrace & Flint	37600	\$1,889	City of Shawnee
17	Public Improvement	10/31/13	3541	055	010248	City of Topeka is installing new sewer line and the existing 2" PE will be in conflict. Install 8' of 2" PE to get over the top of the new sewer line. 4601 SW Topeka Blvd	37650	\$4,315	City of Topeka
18	Public Improvement	10/31/13	3651	055	010104	Manhattan-Relocate 20' of 4" CS in dog leg on Griffith Dr/Griffith Ter due to damaged storm water box replacement by the City of Manhattan.	37650	\$6,918	City of Manhattan
19	Public Improvement	12/2/13	3522	055	010738	Install 1900' 4" MDPE & 120'-2" MDPE. Retire 983'-12" C.I., 2981' 6" C.I., 10' 8" APCS and 3'-6" APCS in conflict with Mill & Overlay KCK, 5th & Walker	37600	\$111,681	Unified Government of Kansas City, KS
20	Public Improvement	12/2/13	3522	055	010738	Install 1900' 4" MDPE & 120'-2" MDPE. Retire 983'-12" C.I., 2981' 6" C.I., 10' 8" APCS and 3'-6" APCS in conflict with Mill & Overlay KCK, 5th & Walker	37650	\$1,102	Unified Government of Kansas City, KS
21	Public Improvement	12/2/13	3532	055	010016	Relocate 123' of shallow 2" CS with 128' of 2" T/F main due to conflict with cuts in bank for City of Highland & Doniphan County N Vermillion St improvement project, N of Vermont St in Highland.	37600	\$7,933	City of Highland
22	Public Improvement	12/2/13	3541	055	010260	Lower 2" PE Main & Service at 4120 SE 61st that is in conflict with Shawnee County Public Works Department Culvert Project #97104-01.	37600	\$7,229	Shawnee County
23	Public Improvement	12/2/13	3541	055	010260	Lower 2" PE Main & Service at 4120 SE 61st that is in conflict with Shawnee County Public Works Department Culvert Project #97104-01.	37650	\$299	Shawnee County
24	Public Improvement	12/2/13	3721	055	010342	Install 815' 2" PE main and relocate service lines in 36th ST North, East of Arkansas ST. Retire 830' 2" PE in conflict with City of Wichita paving project.	37600	\$18,950	City of Wichita
25	Public Improvement	12/2/13	3721	055	010379 *	Relocate 5130'-8" CS with 5130'-12" CS to clear conflicts with City of Wichita/KDOT Highway 54 Improvement project on W Kellogg from 135th to 151st.	37650	\$302,984	City of Wichita/Kansas Department of Transportation
26	Public Improvement	12/13/13	3541	055	010266	Install 68' of 2" cs at 129 SW Sanneman Dr. Retire 60 ft 2" BS that is in conflict with the City of Topeka storm drain project.	37600	\$1,140	City of Topeka

Relocation Expenditures

A	B	C	D	E	F	G	H	I	J
Line No.	GSRs Qualification	Unitization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
27	Public Improvement	12/13/13	3541	055	010266	Install 68' of 2" cs at 129 SW Sanneman Dr. Retire 60 ft 2" BS that is in conflict with the City of Topeka storm drain project.	37650	\$2,199	City of Topeka
28	Public Improvement	12/13/13	3641	055	010069	Install 220' 2" PE Gas Main at Morris Dr & E Country Club Rd. Retire 138' 2" PE & 68' CS gas main that was in conflict with KDOT & Saline Co. E Country Club Rd Street Widening project - Salina	37600	\$6,202	Kansas Department of Transportation
29	Public Improvement	12/13/13	3641	055	010069	Install 220' 2" PE Gas Main at Morris Dr & E Country Club Rd. Retire 138' 2" PE & 68' CS gas main that was in conflict with KDOT & Saline Co. E Country Club Rd Street Widening project - Salina	37650	\$3,294	Kansas Department of Transportation
30	Public Improvement	12/13/13	3653	055	010030	Relocate 400' 2" APBS along 6th St and the intersection of 6th & B St in conflict with City of Washington drainage improvement project along B St. Replace 2" BS with 400' 2" PE.	37600	\$24,003	City of Washington
31	Public Improvement	12/20/13	3522	055	010775	Retire 124' 6" PE main N & W parts of the intersection in conflict with joint RD project for City of Leawood & Prairie Village. Install a 96' 6" PE main along the Southern portion 87th & Mission.	37600	\$18,632	City of Leawood and City of Prairie Village
32	Public Improvement	12/20/13	3522	055	010855	Install 500' 2" PE & 20' of 4" TF. Retire 560' of 4" APCS that is in conflict with City of Overland Park storm sewer project. 89th & Kellser to Eby	37600	\$24,780	City of Overland Park
33	Public Improvement	12/20/13	3522	055	010855	Install 500' 2" PE & 20' of 4" TF. Retire 560' of 4" APCS that is in conflict with City of Overland Park storm sewer project. 89th & Kellser to Eby	37650	\$12,242	City of Overland Park
34	Public Improvement	12/31/13	3522	055	010811	Install 330' OF 6" TF . Retire 270' OF 6"APCS & 90' 2" APCS in conflict with Overland Park RD & storm improvement project on Kansas.	37600	\$2,095	City of Overland Park
35	Public Improvement	12/31/13	3522	055	010811	Install 330' OF 6" TF . Retire 270' OF 6"APCS & 90' 2" APCS in conflict with Overland Park RD & storm improvement project on Kansas.	37650	\$69,268	City of Overland Park
36	Public Improvement	12/31/13	3522	055	010882	Retire & Lower 50' of 2" PE main along Cherokee St. from its current elevation of 803.69' to 800' due to a grade cut for the new storm sewer RBC project by US Army Corps of Engineering. KCK	37600	\$4,727	Army Corps of Engineering
37	Public Improvement	12/31/13	3635	055	010032	Retire 101' 4" CS road crossing with 101' 4" PE at alley east of 1st and Hartup at 714 E 1st, in conflict with City of McPherson 1st St reconstruction project.	37600	\$11,119	City of McPherson
38	Public Improvement	12/31/13	3635	055	010033	Replace 620' of 4" CS with 2" 620' of PE along 1st street from alley east of Hartup to drainage ditch and Retire 390' 2" BS in conflict with City of McPherson 1st St Reconstruction Project.	37600	\$11,214	City of McPherson
39	Public Improvement	1/3/14	3522	055	010885	Install 20' 2" PE dogleg around a new storm box being installed by Kansas City, KS on Southwest Blvd and Iowa St. and retire 10' 2" PE.	37600	\$465	Unified Government of Kansas City, KS

A	B	C	D	E	F	G	H	I	J
Line No.	GSRS Qualification	Utilization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
40	Public Improvement	2/14/14	3522	055	010791	Install 115'-6" TF & 300'- 2" PE. Retire 115'-6" APCS & 135'-2" PE in conflict Unified Government Drainage storm drainage project, KCK, 51st & Kimball	37650	\$37,448	Unified Government of Kansas City, KS
41	Public Improvement	2/14/14	3522	055	010828	Install 800' - 6" PE, 1,100' - 4" PE and 260' - 2" PE main. Retire 1,709' - 6" APCS, 92' - 4" APCS and 250' - 2" APCS main due to conflicts with the City of Overland Park street and storm sewer improvement project.	37600	\$126,086	City of Overland Park
42	Public Improvement	2/14/14	3522	055	010836	Retire 1610' of 4" CI, 100' of 6" CI, 172' of 4" APCS, & 217' of 6" APCS in conflict with Unified Governments 2013 Mill & Overlay Program KCK. Install 1900' of 4" PE & 400' of 2" PE 14th & Pacific Phase 1	37600	\$151,347	Unified Government of Kansas City, KS
43	Public Improvement	2/14/14	3522	055	010850	Install 45' of 4" PE main along 115th St. to be used as a bypass. Retire 30' of 4" PE main that will be in conflict with proposed storm box for City of Overland Park.	37600	\$3,152	City of Overland Park
44	Public Improvement	2/14/14	3522	055	010854	Install 155' 2" PE & 20' of 2" TF. Retire 130'-2" APSC in conflict with new storm being installed by the City of Overland Park at 93rd & Slater and 93rd ST.	37600	\$8,590	City of Overland Park
45	Public Improvement	2/14/14	3522	055	010854	Install 155' 2" PE & 20' of 2" TF. Retire 130'-2" APSC in conflict with new storm being installed by the City of Overland Park at 93rd & Slater and 93rd ST.	37650	\$5,678	City of Overland Park
46	Public Improvement	2/14/14	3522	055	010858	Storm drainage renewal project # 90038 at 83rd and Acuff and Mullen. Install 240' of 4" PE and retire 240' of 4" PE that is in conflict with the new RCB's that are being installed. City of Lenexa	37600	\$7,480	City of Lenexa
47	Public Improvement	2/14/14	3522	055	010898	Install 20' 3" CS and 60' 2" CS main and retire 10' 3" CS and 40' 2" CS to dogleg our mains below the City of Overland Park's new storm sewer and out of conflict at 94th & 93rd on Antioch.	37600	\$6,681	City of Overland Park
48	Public Improvement	2/14/14	3522	055	010898	Install 20' 3" CS and 60' 2" CS main and retire 10' 3" CS and 40' 2" CS to dogleg our mains below the City of Overland Park's new storm sewer and out of conflict at 94th & 93rd on Antioch.	37650	\$9,110	City of Overland Park
49	Public Improvement	2/14/14	3531	055	010051	Relocation: Install 925'- 2" PE along the south ROW of Limit St & Lower 150'- 2" PE to clear conflicts with City of Leavenworth, KDOT road improvement project 52U 2291-01. Retire 649' - 2" PE & 212'- 2" APCS bridge Xing.	37600	\$37,686	City of Leavenworth
50	Public Improvement	2/14/14	3541	055	010268	GSRS Install 320' of 6" cs due to existing 6" main is in conflict with new City of Topeka culvert & bridge at 10th & Vitt	37650	\$23,349	City of Topeka
51	Public Improvement	2/14/14	3522	055	010891	To install 30' 2" steel dogleg to avoid conflict with a storm pipe being installed at Martway & Lamar for City of Mission.	37600	\$2,041	City of Mission
52	Public Improvement	2/14/14	3522	055	010891	To install 30' 2" steel dogleg to avoid conflict with a storm pipe being installed at Martway & Lamar for City of Mission.	37650	\$1,700	City of Mission

A	B	C	D	E	F	G	H	I	J
Line No.	GSRS Qualification	Utilization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
53	Public Improvement	2/14/14	3531	055	010052	Relocate and lower 40' 2" PE at Limit St & 2nd Ave to avoid a conflict with a new retaining wall for the City of Leavenworth bridge and road improvement project on Limit St.	37600	\$626	City of Leavenworth
54	Public Improvement	2/14/14	3622	055	010031	HWY 281 & HWY 160 Install 90' 2" APCS in HWY ROW. Retire 90' of 2" CS in the way of City of Medicine Lodge RD project.- KDOT Project 160-4 KA-2050-01	37600	\$4,833	Kansas Department of Transportation
55	Public Improvement	2/14/14	3635	055	010034	Replace 750' of 4" CS with 750' of 2" PE along 1st street from Drainage Ditch to street crossing @ Kerschner due to conflict with City of McPherson 1st St Reconstruction Project.	37600	\$12,859	City of McPherson
56	Public Improvement	2/14/14	3761	055	010071	3011 N Michigan, Pittsburg. Install 79 ft of 6" RPCS by directional boring under existing storm sewer. Retire existing 6" CS that is in the way of new storm sewer being installed by City of Pittsburg	37650	\$6,563	City of Pittsburg
57	Public Improvement	2/14/14	3831	055	010033	Retire 275' 4" BS main and 131' 1 1/4" CS main in easements north and south of Corning St, west of 13th, in conflict with a City of Parsons Street Paving Project. Service lines will be relocated on blanket job orders.	38200	\$2,664	City of Parsons
58	Public Improvement	2/14/14	3831	055	010033	Retire 275' 4" BS main and 131' 1 1/4" CS main in easements north and south of Corning St, west of 13th, in conflict with a City of Parsons Street Paving Project. Service lines will be relocated on blanket job orders.	38300	\$1,332	City of Parsons
59	Public Improvement	2/14/14	3831	055	010034*	Relocate 463' 6" BS/CS and 405' 4" BS/CS main in conflict w/City of Parsons Street Paving Project in 100 & 400 Blks of S 13th St & replace w/880' 6" PE.	37600	\$56,185	City of Parsons
60	Public Improvement	2/21/14	3522	055	010873	Install 100' of 2" PE service line to tie into the schools existing line. Retire 100' -2" PE & 100' -4" PE that will be in conflict with a new RCP being installed. 60th & Monticello, Shawnee	38000	\$5,943	City of Shawnee
61	Public Improvement	2/21/14	3522	055	010880	Install 2520' of 4" PE main to reinforce the system before losing the 4" feed on Gibbs Rd due to KDOT project 635-105 KA 2093-01 that requires removal of the 4" steel pipe attached to the bridge over I-635, KCK.	37600	\$79,320	Kansas Department of Transportation
62	Public Improvement	2/21/14	3522	055	010897	Install 170' of 4" PE on Martway from Lamar to Woodson. Retire 140' of 4" PE in conflict with City of Mission Rd improvement project.	37600	\$4,225	City of Mission
63	Public Improvement	2/21/14	3541	055	010269	Main in the intersection of 25th & Ohio is in conflict with the full depth replacement of 25th being done by City of Topeka. 265' of 2" PE will replace the 2" & 4" APBS	37600	\$14,311	City of Topeka
64	Public Improvement	2/21/14	3651	055	010106	Manhattan - Relocate 350' of 2" PE & 500' of 4" PE again with 680' 2" PE & 460' 4" PE to accommodate KDOT K-18 project drainage ditch construction change to widen south end of Harold Rd	37600	\$18,238	Kansas Department of Transportation
65	Public Improvement	2/21/14	3721	055	010370	151st & Woodbine Wichita from West Town Border. Install 140' of 4" TF, and install 2 gate valve and 2 Fisher Regulators. Existing facility is in conflict with KDOT HWY 54 project	37650	\$247	Kansas Department of Transportation

A	B	C	D	E	F	G	H	I	J
Line No.	GSRS Qualification	Unitization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
66	Public Improvement	2/21/14	3721	055	010370	151st & Woodbine Wichita from West Town Border. Install 140' of 4" TF, and install 2 gate valve and 2 Fisher Regulators. Existing facility is in conflict with KDOT HWY 54 project	38050	\$7,050	Kansas Department of Transportation
67	Public Improvement	2/21/14	3721	055	010370	151st & Woodbine Wichita from West Town Border. Install 140' of 4" TF, and install 2 gate valve and 2 Fisher Regulators. Existing facility is in conflict with KDOT HWY 54 project	38200	\$10,979	Kansas Department of Transportation
68	Public Improvement	2/21/14	3721	055	010370	151st & Woodbine Wichita from West Town Border. Install 140' of 4" TF, and install 2 gate valve and 2 Fisher Regulators. Existing facility is in conflict with KDOT HWY 54 project	38300	\$2,745	Kansas Department of Transportation
69	Public Improvement	2/21/14	3721	055	010383	3802 E 27th, Brook's Middle school's 3" BS S/L is in conflict with new City of Wichita storm sewer. Replace 3" BS service with 4" PE, reuse Roots 11M meter & install 2" American 1813B regulator.	38200	\$701	City of Wichita
70	Public Improvement	2/21/14	3721	055	010383	3802 E 27th, Brook's Middle school's 3" BS S/L is in conflict with new City of Wichita storm sewer. Replace 3" BS service with 4" PE, reuse Roots 11M meter & install 2" American 1813B regulator.	38300	\$351	City of Wichita
71	Public Improvement	2/21/14	3721	055	010384	S. Seneca & May, Wichita. Install 150' OF 4" coated steel and retire 150' of 4" coated steel that is in conflict with City of Wichita storm sewer project.	37600	\$8,937	City of Wichita
72	Public Improvement	2/21/14	3721	055	010384	S. Seneca & May, Wichita. Install 150' OF 4" coated steel and retire 150' of 4" coated steel that is in conflict with City of Wichita storm sewer project.	37650	\$232	City of Wichita
73	Public Improvement	2/21/14	3721	055	010387	135th W & Highland Spring RD. Install 165' 4" PE and retire 165' of 4" PE that is in the way of the City of Wichita RD & storm sewer project.	37600	\$8,219	City of Wichita
74	Public Improvement	2/21/14	3721	055	010390	36th ST N & Arkansas. Install 20' of 4" PE to retire 4" PE in the way of City of Wichita RD project. This work is an additional conflict to the one that was corrected on JO 051.055.3721.010342.	37600	\$5,442	City of Wichita
75	Public Improvement	2/21/14	3811	055	010024	High School & Maple, Columbus. Install 253 ft 4" coated steel. Retire 201' 3" coated steel & 69' 4" coated steel to eliminate a valve & shallow main in conflict with City of Columbus road project.	37650	\$24,983	City of Columbus
76	Public Improvement	2/21/14	3811	055	010025	Maple & Delaware, Columbus. Install 52 ft of 2" PE and retire existing 2" PE that is in the way of the new storm sewer being installed by the City of Columbus.	37600	\$2,220	City of Columbus
77	Public Improvement	3/3/14	3541	055	010265	Install 225' 4" PE to replace 4" RPCS feed in conflict with Shawnee County RD project. This feed was installed after County installed drainage ditch.	37600	\$4,615	Shawnee County
78	Public Improvement	3/5/14	3522	055	010830	Install 250' 6" PE, 2120' 4" PE & 1750' 2" PE. Retire 890' 12" CI, 1205' 6" CI, 1750' 4" CI & 384' 3" APBS due to conflict with KCK resurfacing project & 2013 CI replace 12th & Riverview, Boeke, Lyons, Reynolds & 9th	37600	\$174,465	Unified Government of Kansas City, KS

A	B	C	D	E	F	G	H	I	J
Line No.	GSRS Qualification	Unitization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
79	Public Improvement	3/5/14	3522	055	010837	Retire 170' of 4" CI, 1540' of 6" CI, 20' of 4" APCS & 650' of 6" APBS in conflict with Unified Governments 2013 Mill and Overlay KCK. Install 950' of 4" PE & 2700' of 2" PE (15 psig) 14th and Pacific Phase 2.	37600	\$164,035	Unified Government of Kansas City, KS
80	Public Improvement	3/5/14	3522	055	010838	Retire 1610' of 4" CI, 1833' of 4" CI & 250' of 4" PE in conflict with Unified Governments 2013 Mill & Overlay, KCK. Install 4230' of 2" PE (15 psig) 14th & Pacific Phase 3.	37600	\$123,937	Unified Government of Kansas City, KS
81	Public Improvement	3/5/14	3522	055	010860	Install 15' of 4" TF & 15' of 2" TF. Retire 15' of 4" APCS & 15' of 2" APCS. This project will eliminate conflicts with Overland Park's 2013 Storm Sewer Repairs. This is the third of four sites. 98th and Travis LN	37600	\$2,198	City of Overland Park
82	Public Improvement	3/5/14	3522	055	010860	Install 15' of 4" TF & 15' of 2" TF. Retire 15' of 4" APCS & 15' of 2" APCS. This project will eliminate conflicts with Overland Park's 2013 Storm Sewer Repairs. This is the third of four sites. 98th and Travis LN	37650	\$3,568	City of Overland Park
83	Public Improvement	3/5/14	3761	055	010073	20th & Broadway, Pittsburg. Relocate 4" PE in at the driveway for 2004 N Broadway and possibility of 2 other locations near here, due to existing main in the way of new storm sewer the City of Pittsburg is installing	37600	\$2,888	City of Pittsburg
84	Public Improvement	3/14/14	3721	055	010380*	Relocate 4605' 6" BS & CS with 4730' 8" T/F on Grand Ave Baughman to Broadway in conflict w/KDOT and Federal Road Rehabilitation Project in Haysville. Replace 42 BS SL.	37600	\$33,946	Kansas Department of Transportation
85	Public Improvement	3/14/14	3721	055	010380*	Relocate 4605' 6" BS & CS with 4730' 8" T/F on Grand Ave Baughman to Broadway in conflict w/KDOT and Federal Road Rehabilitation Project in Haysville. Replace 42 BS SL.	37650	\$431,453	Kansas Department of Transportation
86	Public Improvement	4/16/14	3522	055	010839	Retire 420' 4" CI, 180' 6" CI, 400' of 2" APCS, 131' 4" APCS, 70' of 6" APCS & 630' of 6" APBS in conflict with Unified Governments 2013 Mill & Overlay, KCK. Install 1450' of 4" PE & 1130' of 2" PE. 14th & Pacific Phase 4	37600	\$108,991	Unified Government of Kansas City, KS
87	Public Improvement	4/16/14	3522	055	010877	Install 1,050' 2" PE & 1,310' 4" PE main (15 psig). Retire 2,068' 6" CI & 18' 6" PE main in the way of Mill & Overlay project by the Unified Gov of Wyandotte Riverview & Thorpe Phase 2 Kansas City.	37600	\$87,836	Unified Government of Kansas City, KS
88	Public Improvement	4/16/14	3522	055	010899	Install a 15' 2" CS dogleg to move the main out of the way of a new storm box being constructed for the City of Overland Park 2013 Major Storm Sewer Repair MS-1193, 88th Ter & Grandview.	37600	\$2,358	City of Overland Park
89	Public Improvement	4/16/14	3541	055	010258	Install 95' of 2" & 195' of 4" PE. Retire 245' 2" & 4" PE due existing main in conflict with road improvements being done by the City of Topeka at 17th & Plass and 17th and College	37600	\$64,020	City of Topeka
90	Public Improvement	4/16/14	3635	055	010035*	Replace 1135' 2" BS, 509' 2" CS, 180' 2" PE, 187' 4" CS from 328 E Loomis south to First street with 2566' of 2" PE in conflict with City of McPherson's First Street Reconstruction project.	37600	\$17,012	City of McPherson
91	Public Improvement	4/16/14	3651	055	010109	Manhattan - Install 18' of 4" PE to lower 4" PE gas main in conflict with City of Manhattan water tap for fire water line south of 805 S Seth Child.	37600	\$1,816	City of Manhattan

Relocation Expenditures

A	B	C	D	E	F	G	H	I	J
Line No.	GSRS Qualification	Unitization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
92	Public Improvement	4/16/14	3911	055	010048*	Install 1358'-2" & 1317'-4" PE IP Main on School St & State St. Retire 248' 2,4,6" BS Main. 740' of 2" BS in conflict with City of Augusta Street Paving Project .	37600	\$51,764	City of Augusta
93	Public Improvement	5/2/14	3612	045	010019	Rebuild/Relocate Existing Tap Serving Abilene #2 TBS Line 0318 Located in the SW/4 Sec. 2, T13S - R2E, Dickinson County MP 2004 - 150.4 due to Township Road Improvement Plans on 2400 Ave.	36700	\$48,833	Dickinson County
94	Public Improvement	5/2/14	3521	055	010099	Install 765 ft of 2" MDPE to replace 682 ft of 2" RPBS. Existing main is in conflict with City of Lyndon RD Project on Adams from 10th to 11th.	37600	\$16,120	City of Lyndon
95	Public Improvement	5/2/14	3522	055	010818	Install 30' of 4" coated steel. Retire 20' of 4" APCS. Work will eliminate conflict with Overland Park's new storm pipes and boxes at 91st and Eby.	37600	\$16,481	City of Overland Park
96	Public Improvement	5/2/14	3522	055	010818	Install 30' of 4" coated steel. Retire 20' of 4" APCS. Work will eliminate conflict with Overland Park's new storm pipes and boxes at 91st and Eby.	37650	\$15,987	City of Overland Park
97	Public Improvement	5/2/14	3522	055	010831	Install 575' of 4" PE. retire 575 of 4" APCS. This work will lower our main, which is in conflict with City of Overland Parks full depth street reconstruction along 91st ST from Grant to England	37600	\$42,074	City of Overland Park
98	Public Improvement	5/2/14	3522	055	010831	Install 575' of 4" PE. retire 575 of 4" APCS. This work will lower our main, which is in conflict with City of Overland Parks full depth street reconstruction along 91st ST from Grant to England	37650	\$373	City of Overland Park
99	Public Improvement	5/2/14	3522	055	010832	Install 80' 4" PE. Retire 80'-4" APCS in conflict with RCB being installed by the City of Lenexa 81st Terr & Gleason.	37600	\$9,547	City of Lenexa
100	Public Improvement	5/2/14	3522	055	010832	Install 80' 4" PE. Retire 80'-4" APCS in conflict with RCB being installed by the City of Lenexa 81st Terr & Gleason.	37650	\$3,696	City of Lenexa
101	Public Improvement	5/2/14	3522	055	010861	Install 235' of 2" PE & 90' of 2" TF. Retire 295' of 2" APCS. This project will eliminate conflicts with Overland Park's 2012 Storm Sewer Repairs in the Tomahawk Ridge subdivision, 90th & Conser.	37600	\$14,674	City of Overland Park
102	Public Improvement	5/2/14	3522	055	010861	Install 235' of 2" PE & 90' of 2" TF. Retire 295' of 2" APCS. This project will eliminate conflicts with Overland Park's 2012 Storm Sewer Repairs in the Tomahawk Ridge subdivision, 90th & Conser.	37650	\$8,634	City of Overland Park
103	Public Improvement	5/2/14	3522	055	010864	To install 54' - 4" TF. To retire 30' - 4" APCS. This project is being completed to eliminate conflicts with Overland Parks 2013 Storm Sewer Repair project # MS-1193. This work is in Site 2 of the project.	37600	\$5,827	City of Overland Park
104	Public Improvement	5/2/14	3522	055	010864	To install 54' - 4" TF. To retire 30' - 4" APCS. This project is being completed to eliminate conflicts with Overland Parks 2013 Storm Sewer Repair project # MS-1193. This work is in Site 2 of the project.	37650	\$14,261	City of Overland Park



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Line No.	GSRs Qualification	Utilization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
105	Public Improvement	5/2/14	3522	055	010875	Install 1,275' 2" PE, 425' of 4" PE to retire 150' 2" APBS, 1,224' 4" APCS & 265' of 4" APBS in conflict with City of Missions RD improvement project. Johnson DR from Lamar to Dearborn	37600	\$196,725	City of Mission
106	Public Improvement	5/2/14	3522	055	010876	Install 675' 2" PE & 260' 4" PE main. Retire 865' 12" CI, 705' 6" CI, 940' 12" APCS, 35' 6" APCS & 567' 4" APCS main in the way of Mill & Overlay project by the Unified Gov of Wyandotte Riverview & Thorpe 1 Kansas City.	37600	\$47,271	Unified Government of Kansas City, KS
107	Public Improvement	5/2/14	3522	055	010887	Install a 15' 2" Steel dogleg and retire 10' - 2" steel at 5th & Splitlog due to a conflict with storm box improvement for the Unified Government of Wyandotte Kansas City.	37650	\$3,758	Unified Government of Kansas City, KS
108	Public Improvement	5/2/14	3541	055	010253	Install 800' 6" T/F main on SW 21st btwn Kingsrow Rd and Arvonía after City of Topeka 21st St Rd Widening Project Phase I construction at final grade. All shallow 6" CS retired on JO 051.055.3541.010251.	37600	\$58,553	City of Topeka
109	Public Improvement	5/2/14	3541	055	010254	Install 600' of 6" RPCS main on SW 21st between Arvonía Pl and Wanamaker after City of Topeka 21st St Rd Widening Project Phase III is completed. All 6" CS in conflict w/Rd const was retired on JO 051.055.3541.010251.	37600	\$52,384	City of Topeka
110	Public Improvement	5/2/14	3541	055	010255	Install 1,960 of 4" PE. Retire 3390' 4" PE in conflict with KDOT Highway 24 improvements at Hwy 24 and Menoken.	37600	\$46,295	Kansas Department of Transportation
111	Public Improvement	5/2/14	3541	055	010259	Install 1525' 4" CS, 1062' 4" PE, 1490' 2" PE to retire existing main in conflict with City Rd Project. Required size for size 4" feeder relocation from Golden to Highland w/CS for rectifier continuity.	37650	\$151,476	City of Topeka
112	Public Improvement	5/2/14	3631	055	010069	Relocate 150' of 8" CS to the other side of Waldron street at the south hospital entrance to clear the new storm drain the City of Hutchinson is putting in at this intersection.	37650	\$9,507	City of Hutchinson
113	Public Improvement	5/2/14	3741	055	010031	Relocate and replace 350' - 6.5" RPBS pipe with 6" Thin Film in conflict with KDOT Bridge Replacement Project at C & 3rd in Wellington, KS.	37650	\$44,960	Kansas Department of Transportation
114	Public Improvement	5/22/14	3522	055	010840	Install 520' 4" PE and 2420' of 2" PE. Retire 2706' of 6" CI & 50' of 6" PE in conflict with Unified Governments 2013 Mill & Overlay, KCK	37600	\$134,642	Unified Government of Kansas City, KS
115	Public Improvement	5/22/14	3522	055	010852	Install 60' of 6" APCS main along 116th St. to be used as a bypass. Retire 45' of 6" APCS main that will be in conflict with proposed storm box for City of Overland Park.	37650	\$17,670	City of Overland Park
116	Public Improvement	5/22/14	3522	055	010869	Install 90'-2" TF main. Retire 58'-2" APCS main due to conflicts with proposed storm boxes for City of Merriam project. There will be three doglegs installed: 10215 W. 52nd Ter, 10101 W. 52nd Ter. and 10100 W. 53rd St.	37650	\$6,201	City of Merriam
117	Public Improvement	5/22/14	3522	055	010889	Install 3115' 2" PE main & retire 1950' 2" BS, 1165' 3" BS. This project is required to eliminate conflicts with Overland Park 2014 CDBG Neighborhood St. Reconstruction. This is the 1 of 2 sites. 73rd and Glenwood	37600	\$98,265	City of Overland Park



Relocation Expenditures

A	B	C	D	E	F	G	H	I	J
Line No.	GSRS Qualification	Utilization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
118	Public Improvement	5/22/14	3522	055	010889	Install 3115' 2" PE main & retire 1950' 2" BS, 1165' 3" BS. This project is required to eliminate conflicts with Overland Park 2014 CDBG Neighborhood St. Reconstruction. This is the 1 of 2 sites. 73rd and Glenwood	37650	\$26,635	City of Overland Park
119	Public Improvement	5/22/14	3522	055	010907	To install 40' 2" CS dogleg to lower the 2" BS main due to City of Shawnee's Storm Drainage Improvements. 60th and Barton.	37600	\$61	City of Shawnee
120	Public Improvement	5/22/14	3522	055	010907	To install 40' 2" CS dogleg to lower the 2" BS main due to City of Shawnee's Storm Drainage Improvements. 60th and Barton.	37650	\$3,959	City of Shawnee
121	Public Improvement	5/22/14	3541	055	010256*	Relocate 2375' 4" & 1040' 2" CS mains in conflict with Shawnee County Rd & Intersection Improvement Projects on NW 46th, Rochester to Topeka w/4" & 6" PE.	37600	\$117,757	Shawnee County
122	Public Improvement	5/22/14	3541	055	010256*	Relocate 2375' 4" & 1040' 2" CS mains in conflict with Shawnee County Rd & Intersection Improvement Projects on NW 46th, Rochester to Topeka w/4" & 6" PE.	37650	\$4,626	Shawnee County
123	Public Improvement	5/22/14	3635	055	010036	Retire 780' of 2" BS, 172' 2" PE, & 76' 2" CS and install 526' of 2" PE main in conflict with City of McPherson 1st St reconstruction project and drainage pipe project.	37600	\$15,569	City of McPherson
124	Public Improvement	5/22/14	3635	055	010037	McPherson City Project: Install 826' 2" PE 360' 4" PE. Retire 394' 2" BS 1464' 4" BS due to conflicts with 1st ST road improvement project.	37600	\$49,865	City of McPherson
125	Public Improvement	5/22/14	3721	055	010386	MT Vernon & Oliver. Install 1,200' 8" cs, 325' 2" PE & 505' of 2" cs to replace 994' of 2" BS, 1,047' of 8" CS that is in the way of a City of Wichita/KDOT RD project. There are 2 BS service lines.	37600	\$1,196	City of Wichita/Kansas Department of Transportation
126	Public Improvement	5/22/14	3721	055	010386	MT Vernon & Oliver. Install 1,200' 8" cs, 325' 2" PE & 505' of 2" cs to replace 994' of 2" BS, 1,047' of 8" CS that is in the way of a City of Wichita/KDOT RD project. There are 2 BS service lines.	37650	\$112,593	City of Wichita/Kansas Department of Transportation
127	Public Improvement	6/2/14	3522	055	010902	Install 650' 2" PE main @ 54th & Knox, Merriam. Retire 282' 2" BS and 323' 2" CS main in conflict with City of Merriam's 2014 RSG IV Street and Drainage Improvements.	37600	\$19,698	City of Merriam
128	Public Improvement	6/2/14	3541	055	010257	Install 2481' 2" PE. Retire 841' 2" BS, 463' 4" BS, 1100 2" cs, 162' of 11/4" PE in conflict with City of Topeka road improvements on 25th between Adams & California	37600	\$52,579	City of Topeka
129	Public Improvement	6/2/14	3541	055	010257	Install 2481' 2" PE. Retire 841' 2" BS, 463' 4" BS, 1100 2" cs, 162' of 11/4" PE in conflict with City of Topeka road improvements on 25th between Adams & California	37650	\$36,777	City of Topeka
130	Public Improvement	6/2/14	3522	055	010909	To install a 2" CS dogleg to move the current main out from under the new footing for a walking/biking path bridge for the City of Tonganoxie. Tonganoxie DR & E 1st.	37600	\$2,608	City of Tonganoxie

A	B	C	D	E	F	G	H	I	J
Line No.	GSRS Qualification	Utilization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
131	Public Improvement	6/2/14	3522	055	010911	Install 20' 4" cs @ 6501 Overbrook, Mission Hills to dogleg around a conflict with a proposed storm box installation for the City of Mission Hills. 20' of 4" BS is in conflict.	37600	\$2,474	City of Mission Hills
132	Public Improvement	6/2/14	3522	055	010911	Install 20' 4" cs @ 6501 Overbrook, Mission Hills to dogleg around a conflict with a proposed storm box installation for the City of Mission Hills. 20' of 4" BS is in conflict.	37650	\$2,385	City of Mission Hills
133	Public Improvement	6/2/14	3635	055	010046	Install 311' of 4" coated steel. Retire 300' 4" & 117' of 2" coated steel & 60' of 4" PE in conflict with City of McPherson storm sewer project @ 501 N Hartup.	37600	\$15,524	City of McPherson
134	Public Improvement	6/3/14	3541	055	010264	Install 3,781' 2" & 210' 4" PE. Retire 119' 4" BS, 2265' 2" BS, 1296' 2" CS in conflict with City of Topeka RD project on Colorado between 29th & 26th. Main was laid across California to provide 2-45 psig feeds.	37600	\$132,677	City of Topeka
135	Public Improvement	6/3/14	3621	055	010022	24th & Main, Great Bend. Install 200' of 2" PE and 1,386' of 4" PE mains. Retire 151' of 2" CS & 1,342' of 4" CS mains that are in conflicts with City of Great Bend/KDOT RD project.	37600	\$66,632	City of Great Bend/Kansas Department of Transportation
136	Public Improvement	6/3/14	3621	055	010022	24th & Main, Great Bend. Install 200' of 2" PE and 1,386' of 4" PE mains. Retire 151' of 2" CS & 1,342' of 4" CS mains that are in conflicts with City of Great Bend/KDOT RD project.	37650	\$5,672	City of Great Bend/Kansas Department of Transportation
137	Public Improvement	6/3/14	3622	055	010032	Main & Stolp. Install 164' of 4" coated steel to retire 164' of 4" coated steel in the way of the City of Medicine Lodge road improvement project.	37650	\$19,996	City of Medicine Lodge
138	Public Improvement	6/3/14	3721	055	010378	Install 723' 4" PE & 171' 2" PE. Retire 58' 4" cs. 384' 4" BS, 32' 2" BS in conflict with the City of Wichita RD project. Alley at 26th Iva to 27th and Bluff to 28th N and Bluff.	37600	\$65,714	City of Wichita
139	Public Improvement	6/4/14	3721	055	010338	Relocating West Town Border due to City of Wichita road project. Installation 24' of 6" cs. 2- 1" Fisher 627, 2-3", 1-3" Mooney FG 300#, 1-6" 441 5S	37900	\$18,001	City of Wichita
140	Public Improvement	6/17/14	3522	055	010901	To install 550' 2" PE main and retire 527' 3" CS, 310' 1-1/4" PE main due to City of Merriam's 2014 Street and Drainage Improvement Project.	37600	\$21,356	City of Merriam
141	Public Improvement	6/17/14	3522	055	010905	To install 280' 2" PE main and retire 210' 2" CS and 83' 2" BS main due to the City of Merriam's 2014 Street and Drainage Project.¶	37600	\$4,300	City of Merriam
142	Public Improvement	6/17/14	3522	055	010905	To install 280' 2" PE main and retire 210' 2" CS and 83' 2" BS main due to the City of Merriam's 2014 Street and Drainage Project.¶	37650	\$2,237	City of Merriam
143	Public Improvement	6/17/14	3531	055	010054	Install 1600'-2" PE along ROW of Ottawa St, 13th Terr to 17th ST. Retire 1,496' 2" PE in conflict with City of Leavenworth road improvement project. Joint trenching arranged with AT&T	37600	\$55,571	City of Leavenworth

Relocation Expenditures

A	B	C	D	E	F	G	H	I	J
Line No.	GSRS Qualification	Utilization Date	Cost Center	Function	Job Order	Description	FERC Account Number	Cost	Government Authority
144	Public Improvement	6/17/14	3531	055	010054	Install 1600'-2" PE along ROW of Ottawa St, 13th Terr to 17th ST. Retire 1,496' 2" PE in conflict with City of Leavenworth road improvement project. Joint trenching arranged with AT&T	37650	\$3,275	City of Leavenworth
145	Public Improvement	6/17/14	3631	055	010071	Install 164' 2" PE at 411 E 56th Hutchinson. Retire 200' of 2" PE in conflict with Sand Hill State Park Road Project.	37600	\$1,363	Kansas Department of Wildlife and Parks
146	Public Improvement	6/17/14	3642	055	010026	Install 1263' 4" PE main on Broadway & Bryam 159' 4" PE on Lincoln. Retire 1126' 4" BS and 296' 2"BS main in conflict with City of Jewell road improvement project.	37600	\$46,184	City of Jewell
147	Public Improvement	6/17/14	3721	055	010403	Install 120' 2" PE main @ 700 E 37th Wichita. Retire 81' of 2" cs in conflict with City of Wichita RD project. Service line to Cargil is also in conflict with RD work & will be relocated.	38050	\$9,895	City of Wichita
148	Public Improvement	6/17/14	3741	055	010032	Replace 96' - 4" T.F. & 29' - 6" T.F. with 96' - 4" T.F. & 29' - 6" T.F. at 1100, 1200, 1300, & 1400 blocks of E Lincoln, for the City of Wellington storm drainage project	37650	\$41,815	City of Wellington
149	Public Improvement	6/17/14	3761	055	010074	Install 77 ft of 3" thin film in 2 locations so the city of Pittsburg can install a retaining wall and new storm sewer.	37650	\$12,864	City of Pittsburg
150	Public Improvement	9/30/13	3522	053	010286	Install 950' of 2" PE on Essex, Booth to Fisher, 42nd St. Retire 803' of 2" APCS due to mill and overlay project for KCK. There are also 6 BS services on project.	37600	\$16,579	Unified Government of Kansas City, KS
151	Public Improvement	2/14/14	3522	053	010285	Install 440' of 2" PE main along Minnie & 42nd. Retire 420' of 2" APBS. Main is being replaced now due to mill and overlay which will occur in 2013 for KCK.	37600	\$10,446	Unified Government of Kansas City, KS
152	Public Improvement	4/18/14	3522	053	010287	Install 1350' of 2" PE main along Lawrence & N on 23rd St. Retire 1058' of 2" APBS & 228' of 2" APCS due to mill and overlay project for KCK. There are also 11 BS services on project	37600	\$76,177	Unified Government of Kansas City, KS
<b>Grand Total</b>								<b>\$5,350,933</b>	

\*The costs associated with replacement of like for like pipe is included in this exhibit.

**KANSAS GAS SERVICE  
A DIVISION OF ONE GAS  
GAS SYSTEM RELIABILITY SURCHARGE**

**EXHIBIT APC-3**

**Blanket Service Line Summary**

Sum of Extended Costs		
Replacement Reason	July 2013 - June 2014	
	Cost	Line Installed
Main Replacement - Graphitization - 192.755(c)(4), 613	\$20,286	18
Triggered Sector - Non Leaking Unprotected Pipe - 192.453 (c )	\$21,470	17
Routine Replacement - Leak - 192.703	\$1,241,937	1104
Main Replacement - Corroded Main - 192.457	\$279,870	397
Routine Replacement - Protected Pipe - Non Leaking	\$551,367	846
Routine Replacement - Non Leaking Unprotected Pipe	\$9,678,794	7665
Main Replacement - Public Improvement	\$378,590	402
Public Improvement W/O Main Replacement	\$8,268	8
<b>Grand Total</b>	<b>\$12,180,581</b>	<b>10,457</b>

**Non Service Line Related Blanket Summary**

Other Blanket Costs	July 2013 - June 2014
	Cost
Install Anodes	\$1,620,868
Weld sleeve high resist couplings	\$185,545
<b>Total</b>	<b>\$1,806,413</b>

**Line No.'s (1 to 5) 5-5-3 Projects**

Pursuant to 192.465(h) and 192.613(b): Each of these projects had bare steel mains which had 5 leaks or more in 5 years. Each of these projects required more than 500-feet in order to have suitable pipe in which to make a connection to the system. The replacement of segments beyond 500-feet is supported pursuant to the requirements of 192.613.

**Line No.'s (6 to 12) Cast Iron Graphitization**

Pursuant to 192.755(c) and 192.613(b): Graphitization was discovered on segments of 6-inch and 4-inch cast iron mains. 2-inch and 4-inch plastic mains were installed to replace the substantially deteriorated cast iron mains. These segments were phased out per 192.613(b) code requirements.

**Line No.'s (13 to 30) Cast Iron Replacement**

Pursuant to 192.613(b) and KCC Docket No. 12-KGSG-721-TAR: Segments of cast iron mains were discovered that warranted replacement for safety reasons. These pipe segments were phased out per 192.613(b) code requirements and replaced with the appropriate pipe.

**Line No. 80 Project 051.043.3612.010028** Continuing Surveillance Project - Pottawatomie County

This project was to replace 11.5 miles of (1931 and 1936 vintage) 3-inch bare steel transmission pipe from MP 14 to MP 27. This pipe is acetylene welded and has no hydrostatic test. Maintenance records show multiple leak clamps repairing corrosion pitting, numerous dresser couplings and several exposures due to erosion in draws and creeks. Several casings will be eliminated with this project. The new line will be laid at a 30-ft offset from the existing line.

**Line No. 81 Project 051.043.3612.010027** Continuing Surveillance Project –Marshall County

This project was to replace 4.8 miles of 1930 vintage 3-inch bare steel transmission pipe from MP 0 to MP 5. This pipe is acetylene welded and has no hydrostatic test. Maintenance records show multiple leak clamps repairing corrosion pitting, numerous dresser couplings and several exposures due to erosion in draws and creeks. Several casings will be eliminated with this project. The new line will be laid at a 30-ft offset from the existing line.

**Line No. 82 Project 051.043.3612.010043** Continuing Surveillance Project –Marshall County

This project replaced 1,388 feet of pipe that was exposed at two different creek crossings in Marshall County. Both segments of pipeline were exposed at creek crossings and were subject to damage by outside forces. The existing pipe was put in using conventional creek crossing construction methods in 1985. The new pipe was directional bored at a depth of 15-feet below the creek bed. Pipe was replaced a MP 15.2 and MP 17.7

**Line No. 83 Project 051.043.3612.010044** Continuing Surveillance Project –Marshall County

This project replaced 855 feet of pipe that was exposed at a creek crossing in Marshall County. The existing pipe was put in using conventional creek crossing construction methods in 1984 and became exposed over time and was at risk to damage by outside forces. The new pipe was directional bored at a depth of 15-feet below the creek bed. Pipe was replaced from Station 87+19 to 95+74.

**Line Nos. 84 & 85 Project 051.043.3612.010053** Continuing Surveillance Project –McPherson County

This project is to replace 6.5 miles of 8-inch coated steel main of Line 0846 from MP 5.5 to MP 12.5. It was the second phase of a project to replace 21 miles of 8-inch transmission pipe feeding the town of Salina, Kansas. The original pipe was installed in 1953 and had no-oxide coating. A close-interval electrical survey found dis-bonded coating on much of the line. Moisture and corrosion was found under the coating. A launcher and receiver will be installed on the line to allow future pigging.

**Line No. 86 Project 051.043.3612.010050** Continuing Surveillance Project –Marshall County

This project was to replace 4.6 miles of 1930 vintage, bare steel transmission pipe of Line 0301 from MP 5 to MP 10. This pipe is acetylene welded and has no hydrostatic test. Maintenance records show multiple leak clamps repairing corrosion pitting, numerous dresser couplings and several exposures due to erosion in draws and creeks. Several casings will be eliminated with this project. The new line will be laid at a 30-ft offset from the existing line.

**Line No. 87 Project 051.043.3612.010051** Continuing Surveillance Project –Washington County

This project was to replace 5.8 miles of 1935 vintage, bare steel transmission pipe of Line 0248 from MP 0 to MP 6.5. This pipe is acetylene welded and has no hydrostatic test. Maintenance records show multiple leak clamps repairing corrosion pitting, numerous dresser couplings and several exposures due to erosion in draws and creeks. One casing will be eliminated with this project. The new line will be laid at a 30-ft offset from the existing line.

**Line No. 88 Project 051.043.3612.010017** Continuing Surveillance Project –Clark & Comanche County

This project was to replace 6.4 miles of 1929 vintage, bare steel transmission pipe that consisted of: 1.7 miles of 6-inch bare steel of Line 0625; 3.3 miles of 3-inch bare steel of Line 0320; and 1.3 miles of 8-inch bare steel of Line 087. This pipe is acetylene welded and has no hydrostatic test. Maintenance records show multiple leak clamps repairing corrosion pitting, numerous dresser couplings and several exposures due to erosion in draws and creeks. The new main (6.3 miles of 4-inch TF Steel main) will be laid at a 30-ft offset from the existing line.

**Line No.'s 89 and 91** Continuing Surveillance

Pursuant to 192.613(b): These projects were to replace pipelines exposed at creek crossings. Potential damage from rocks, boulders and fast currents dictated that these mains needed to be replaced sooner rather than later.

**Line No.'s 90, 92, 93 and 94** Continuing Surveillance

Pursuant to 192.613(b): These projects were to replace pipelines exposed in alleys and streets. Potential damage from heavy trucks and other vehicular loadings dictated that these mains be replaced sooner rather than later.

**Line No. 95 Project 051.054.3621.010239** Continuing Surveillance

Pursuant to 192.613(b): This project was to replace 90-feet of 1 1/4" Coated Steel and 156-feet of 1 1/4" Bare Steel main because of deterioration. 3 bare steel services were also replaced at the same time.

**Line No.'s (96 to 114)** Programmed Bare Steel Services & Mains (various) Projects

Pursuant to 192.613(b) and Section 1855 of KGS' Operations and Maintenance Manual:  
Program unprotected bare steel services were replaced. The mains supplying these services were predominately unprotected bare steel or bare steel originally put installed without cathodic protection prior to 1971. In each case, the mains were deemed unsatisfactory and per code 192.613(b) and Section 1855 of KGS' Operation and Maintenance Manual. The mains were phased out and replaced at the same time of the service line replacement.

In the Matter of the Application of )  
Kansas Gas Service, A Division )  
of ONE Gas, Inc. for Approval By ) DOCKET NO. 15-KGSG-\_\_\_\_-TAR  
The Commission for a Gas )  
System Reliability Surcharge per )  
K.S.A. 66-2201 through 66-2204 )

**DIRECT TESTIMONY**  
**OF**  
**LORNA M. EATON**  
**ON BEHALF OF**  
**KANSAS GAS SERVICE**  
**A DIVISION OF ONE GAS, INC**



**DIRECT TESTIMONY**  
**OF**  
**LORNA M. EATON**  
**KANSAS GAS SERVICE**  
**DOCKET NO. 15-KGSG-\_\_\_-TAR**

1 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A. My name is Lorna M. Eaton. My business address is 7421 West 129<sup>th</sup> Street,  
3 Overland Park, Kansas, 66213.

4 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

5 A. I am employed by Kansas Gas Service, a Division of ONE Gas, Inc. ("KGS" or the  
6 "Company"), as a Rates Analyst II in the Rates and Regulatory Department.

7 **Q. PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND BUSINESS**  
8 **EXPERIENCE.**

9 A. I received a Bachelor of Science in Geology from Kansas State University in 1996  
10 and worked in the KSU Geology department following graduation. I began my  
11 employment with KGS in 2000, as an Accountant in the General Accounting  
12 Department and moved to the Financial Planning Department as a Budget Analyst. I  
13 joined the Rates and Regulatory Department in 2010.

14 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS COMMISSION?**

15 A. Yes. I provided written testimony in Dockets 12-KGSG-835-RTS and 14-KGSG-111-  
16 TAR.

17 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

18 A. The purpose of my testimony is to support the calculation of the Gas System  
19 Reliability Surcharge (GSRs) revenue requirement, the allocation of relevant costs to

1 customer classes, the development and design of GSRS rates, and the revised  
2 GSRS tariff rider.

3 **Q. ARE YOU SPONSORING ANY EXHIBITS?**

4 A. Yes. I am sponsoring Exhibits LME-1 through LME-7.

5 **Q. PLEASE EXPLAIN THE APPLICABLE GSRS REVENUE RATE PARAMETERS**  
6 **CONTAINED IN THE GSRS STATUTE.**

7 A. K.S.A. 66-2203 provides parameters for GSRS filings. Pursuant to this statute, the  
8 Commission may not approve a GSRS filing if it would produce annualized revenues  
9 below the lesser of \$1,000,000 or ½% of the most recent base revenue approved in  
10 the utility's most recent general rate proceeding. KCC Docket No. 12-KGSG-835-  
11 RTS (the "835 Docket") represents the most recent proceeding for Kansas Gas  
12 Service. The last base revenue authorized for Kansas Gas Service was  
13 \$280,900,744, resulting in a threshold of \$1,404,504, thus the minimum floor for  
14 Kansas Gas Service in a GSRS filing is \$1,000,000. Exhibit LME-1 identifies the  
15 incremental Kansas Gas Service Revenue Requirement at \$3,544,716 with a  
16 cumulative GSRS recovery of \$5,020,065, thus meeting the minimum threshold. The  
17 maximum annualized GSRS revenues contemplated by the statute are capped at  
18 10% of the most recent base revenue approved in the utility's most recent general  
19 rate proceeding. This GSRS recovery 'ceiling' for Kansas Gas Service is currently  
20 \$28,090,075, thus the requested GSRS request is well within the parameters  
21 established in the statute. Further, K.S.A. 66-2204 provides a 'rate' ceiling of \$.40  
22 per month, per filing, by which the residential GSRS rate may increase in any GSRS  
23 filing. Exhibit LME-6 sets forth the proposed cumulative residential GSRS charge at  
24 \$0.51 per month, which is an increase of \$0.36 per month, over the \$0.15 rate  
25 authorized in Docket No. 14-KGSG-111-TAR (the "111 Docket").

1 **Q. WERE ANY OF THE PROJECTS INCLUDED WITHIN THIS GSRS REQUEST**  
2 **CONTAINED IN RATE BASE WITHIN THE 835 DOCKET?**

3 **A.** No.

4 **Q. PLEASE IDENTIFY THE ASPECTS OF THE GSRS CALCULATION.**

5 **A.** The GSRS application contains the following elements:

- 6 1. True-up of GSRS revenue requirement from projects included in the 111  
7 Docket, due to the passage of time.
- 8 2. Calculation of the over/under recovery of the previously authorized GSRS  
9 revenue, based upon actual GSRS revenue recorded through June, 2014  
10 plus projected revenue to be collected through November, 2014.
- 11 3. Safety related and government relocation GSRS expenditures unitized during  
12 the period July 1, 2013 through June 30, 2014. KGS witness Mr. Anthony  
13 Cellitti will discuss these projects.
- 14 4. Blanket work orders involving the replacement of service lines and mains  
15 placed in service and unitized during the period July 1, 2013 and June 30,  
16 2014.

17 **Q. COULD YOU PLEASE EXPAND ON THE CUTOFF DATE USED TO DETERMINE**  
18 **GSRS ELIGIBLE PROJECTS?**

19 **A.** Projects included in this filing were those that were both in service and unitized prior  
20 to closing the Company's plant accounting records in June, 2014. Unitization refers  
21 to the accounting process by which project costs are accumulated, amounts are  
22 assigned to FERC accounts. Due to the accounting tasks necessary to finalize a  
23 project, the unitization date occurs after a project is actually in service.

24 **Q. PLEASE PROVIDE AN EXPLANATION OF EXHIBIT LME-1.**

1 A. Exhibit LME-1 summarizes the components of the GSRS Revenue Requirement  
2 calculation. The calculation methods and components are consistent with those  
3 required in K.S.A. 66-2204 (d) (1) through (8). As shown on Line 11, the total GSRS  
4 Revenue Requirement is \$5,020,065, with an incremental GSRS Revenue  
5 requirement of \$3,544,716 as shown on Line 13. This revenue requirement  
6 incorporates all of the items listed above.

7 **Q. HOW DID YOU DETERMINE THE CARRYING CHARGE FOR CALCULATING**  
8 **THE GSRS REVENUE REQUIREMENT?**

9 A. The Stipulated Settlement Agreement in the 835 Docket, Kansas Gas Service's most  
10 recent rate case approved by the Commission, sets forth the provisions for the  
11 carrying charge to be applied to recoverable investments for Kansas Gas Service's  
12 GSRS filing. The stipulation provides that the carrying charge applicable to GSRS is  
13 10.6% gross of tax. This return was used in the calculation of the revenue  
14 requirement, as shown on Exhibit LME-1.

15 **Q. PLEASE CONTINUE WITH A DISCUSSION OF EXHIBIT LME-2.**

16 A. Exhibit LME-2 summarizes the authorized GSRS revenue approved by the  
17 Commission in the 111 Docket compared to the actual revenues generated from  
18 December 2013 through June 2014, plus the estimated GSRS revenue for the period  
19 of July through November 2014. As shown on Line 11, the revenue recovered from  
20 KGS' GSRS charge exceeds the authorized GSRS recoveries by \$47,583. The  
21 over-recovery is used to reduce the proposed GSRS charges as shown on Line 10 of  
22 LME-1.

23 **Q. PLEASE EXPLAIN EXHIBIT LME-3.**

1 A. Exhibit LME-3 identifies the GSRs Gross and Net Plant in Service by FERC account  
2 for GSRs eligible expenditures, further classified by category of GSRs expenditure.  
3 GSRs eligible projects are identified in K.S.A. 66-2202 (f) (1) through (3) and are  
4 discussed in greater detail in the testimony of Company witness Mr. Cellitti. Column  
5 (B) of Exhibit LME-3 identifies those GSRs expenditures that were approved by the  
6 KCC in the 111 Docket, while column (C) identifies the proposed GSRs expenditures  
7 that relate to safety and governmental relocation projects, and Column (D) identifies  
8 the proposed blanket GSRs expenditures. The Accumulated Depreciation of  
9 \$1,033,577 is shown in column (E). Column (F) identifies the Net GSRs plant by  
10 FERC account of \$46,612,383.

11 **Q. PLEASE EXPLAIN EXHIBIT LME-4.**

12 A. Exhibit LME-4 identifies the Accumulated Depreciation of \$1,033,577 identified by  
13 FERC Account and Accumulated Deferred Income Taxes of \$8,961,105 associated  
14 with Kansas Gas Service's GSRs capital expenditures. The Accumulated Deferred  
15 Income Tax (ADIT) balance represents the liability associated with GSRs investment  
16 that is used to reduce GSRs Rate Base. The Accumulated Depreciation and ADIT  
17 have been updated associated with GSRs projects incorporated in the 111 Docket  
18 due to the passage of time.

19 **Q. PLEASE EXPLAIN EXHIBIT LME-5.**

20 A. Exhibit LME-5 sets forth the calculation of annualized Depreciation Expense  
21 associated with GSRs plant, split between previous GSRs projects, safety and  
22 government relocation projects, and blanket service line projects. As shown on line  
23 40 of the Exhibit, annualized Depreciation Expense is \$1,076,613.

24 **Q. PLEASE EXPLAIN EXHIBIT LME-6.**

1 A. Exhibit LME-6 allocates the GSRS revenue requirement to Kansas Gas Service's  
2 customer classes as provided for in the agreed upon Stipulation in the 835 Docket.  
3 Specifically, the GSRS Revenue Requirement is allocated to each class based upon  
4 the proportion of its Pro-Forma revenue to total Pro-Forma revenue as defined in  
5 Appendix C of the Stipulation and Agreement in the 835 Docket. The revenue  
6 requirement by class is then divided by the number of billing determinants for each  
7 class as defined in that same Appendix, in order to establish the monthly rates, with  
8 the exception of the LVTt and LVTk classes explained in greater detail below.  
9 As shown in column G, the proposed monthly fixed rates by customer class are as  
10 follows:

<b>GSRs Proposed Rates</b>	
<b>Customer Class</b>	<b>Monthly Fixed Rate</b>
RS – Residential Sales	\$0.51
GSS – General Sales Small	\$0.75
GSL – General Sales Large	\$1.85
GSTE – General Sales Transport Eligible	\$7.05
SGS – Small Generator Sales	\$0.94
GIS – Gas Irrigation Sales	\$3.11
STk -- Small Transportation Service “k” system	\$4.63
STt – Small Transportation Service “t” system	\$5.84
GITt – Gas Irrigation Transportation Service “t” system	\$6.84
LVTk – Large Volume Transportation Service “k” system	\$41.55*
LVTt – Large Volume T Transportation Service “t” system	\$154.33*
WT - Wholesale Transportation Service	\$96.26
SSR – Wholesale Sales	\$9.96
CNG – Compressed Natural Gas Transportation Service	\$16.99
KGSSD – Kansas Gas Supply D	\$80.92

1

2 \* Average monthly charge

3 **Q. EARLIER YOU MENTIONED THAT THE TWO LVT CLASSES WERE BEING**  
4 **TREATED SEPARATELY. PLEASE DEFINE THESE CUSTOMER CLASSES,**  
5 **EXPLAIN THE PROPOSED RATE STRUCTURE WITHIN THESE CLASSES, AND**  
6 **EXPLAIN WHY DIFFERING TREATMENT IS APPROPRIATE.**

7 A. The eligibility for these two classes includes those transportation customers who  
8 have a peak delivery of 1,500 MCF at a single location during any of the last twelve

1 billing periods. The distinction between LVTK and LVTt is simply one of location, with  
2 the LVTt customers being served from KGS' transmission line, while LVTK customers  
3 are served off of interstate transmission lines.

4

5 The customer usage within each of these classes is extremely broad, thus  
6 establishing one rate for the entire class would result in very disparate impacts. In  
7 an effort to minimize impacts across the LVTK and LVTt classes, the fixed monthly  
8 GSRS charge are applied to customers using various tiers tied to the 835 Stipulation.

9 The specific LVTK and LVTt proposed rates by tier are shown below:

<b>PROPOSED LVTK AND LVTT GSRS RATES BY TIER</b>			
<b>ANNUAL MCF USAGE</b>		<b>MONTHLY RATE</b>	
<b>MINIMUM</b>	<b>MAXIMUM</b>	<b>LVTK</b>	<b>LVTT</b>
<10,000		\$9.05	\$17.50
10,001	20,000	\$27.50	\$50.00
20,001	40,000	\$59.70	\$130.00
>40,000		\$123.40	\$270.00

10

11 This rate methodology was approved in Docket Nos. 09-KGSG-199-TAR, 10-KGSG-  
12 155-TAR, 11-KGSG-177-TAR, 12-KGSG-138-TAR, and 14-KGSG-111-TAR.

13 **Q. PLEASE EXPLAIN EXHIBIT LME-7**

14 A. Exhibit LME-7 is the GSRS tariff page, revised to reflect the recalculated rates.

15 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

16 A. Yes.



**VERIFICATION**

STATE OF KANSAS                    )  
  ) ss.  
COUNTY OF JOHNSON            )

Lorna M. Eaton, being duly sworn upon her oath, deposes and states that she is Rates Analyst II, Rates and Regulatory Department for Kansas Gas Service, a Division of ONE Gas, Inc.; that she has read and is familiar with the foregoing Direct Testimony filed herewith; and that the statements made therein are true to the best of her knowledge, information, and belief.

  
Lorna M. Eaton

Subscribed and sworn to before me this 22 day of August 2014.

  
NOTARY PUBLIC

My appointment Expires:  
06/05/18



**Kansas Gas Service  
A Division of ONE Gas**

**Gas System Replacement Surcharge**

**Exhibit LME-1**

	(A)	(B)	(C)	(D)	(E)	(F)
<b>Line No.</b>	<b>Summary</b>	<b>GSRs Projects - Docket No. 14-KGSG-111-TAR</b>	<b>New GSRs Safety &amp; Govt. Relocation Projects</b>	<b>New GSRs Blanket Work Orders</b>	<b>Grand Total</b>	<b>Source</b>
1	Original Cost	\$ 13,599,792	\$ 20,059,174	\$ 13,986,994	\$ 47,645,960	Schedule LME-3
2	<i>Less: Accumulated Depreciation</i>	<u>\$ (514,130)</u>	<u>\$ (337,445)</u>	<u>\$ (182,002)</u>	<u>\$ (1,033,577)</u>	Schedule LME-4
3	Net Plant in Service	\$ 13,085,662	\$ 19,721,729	\$ 13,804,993	\$ 46,612,383	
4	<i>Less: Accumulated Deferred Income Taxes</i>	<u>\$ (3,287,640)</u>	<u>\$ (3,701,934)</u>	<u>\$ (1,971,531)</u>	<u>\$ (8,961,105)</u>	Schedule LME-4
5	Net GSRs Rate Base	\$ 9,798,022	\$ 16,019,795	\$ 11,833,461	\$ 37,651,278	
6	Carrying Charge <sup>(1)</sup>	<u>10.60%</u>	<u>10.60%</u>	<u>10.60%</u>	<u>10.60%</u>	
7	Pre-Tax Required Return	\$ 1,038,590	\$ 1,698,098	\$ 1,254,347	\$ 3,991,035	Line 5 * Line 6
8	Depreciation Expense	\$ 345,303	\$ 361,534	\$ 369,776	\$ 1,076,613	Schedule LME-5
9	Revised GSRs Revenue Requirement (Annual)				<u>\$ 5,067,649</u>	Line 7 + 8
10	Plus (Minus): Over-Recovered Balance from Docket No. 14-KGSG-111-TAR				<u>\$ (47,583)</u>	Schedule LME-2
11	Revised GSRs Annualized Revenue Requirement				\$ 5,020,065	Line 9 + 10
12	Previously Authorized GSRs				<u>\$ 1,475,349</u>	
13	Increase in Requested GSRs				<u>\$ 3,544,716</u>	Line 11 - 12

(1) Carrying Charge of 10.6% gross of tax was established in Docket 12-KGSG-835-RTS.

**Kansas Gas Service  
A Division of ONE Gas**

**Gas System Reliability Surcharge**

Exhibit LME-2

**GSRs Over/Under Cumulative Recovery for 2014**

(A)

<u>Line No.</u>		<u>GSRs Recoveries</u>
1	December 2013 Recoveries	\$124,745
2	January 2014 Recoveries	\$127,535
3	February 2014 Recoveries	\$128,288
4	March 2014 Recoveries	\$127,827
5	April 2014 Recoveries	\$126,662
6	May 2014 Recoveries	\$127,084
7	June 2014 Recoveries	\$126,236
8	Jul - Nov 2014 GSRs Projected Recoveries	\$634,555
9	<u>Total Cumulative GSRs Recoveries</u>	<u>\$1,522,932</u>
10	2014 GSRs Rev. Requirement	<u>\$1,475,349</u>
11	<b>Total Amount Over Recovered through November 2014</b>	<b><u><u>\$47,583</u></u></b>

**Kansas Gas Service  
A Division of ONE Gas**

**Exhibit LME-3**

**Gas System Reliability Surcharge**

**Plant in Service**

Line No.	Account	(A) Account Title	(B)	(C)	(D)	(E)	(F)
			GSRs Projects Docket No. 14- KGSG-111-TAR	GSRs Projects Safety and Govt. Relocation	GSRs Blanket Work Orders	Less: Accumulated Depreciation	Net Plant
1	367	Mains	-	10,801,239	-	189,892	10,611,347
2	369	Measuring and regulating station equip.	2,185	27,370	-	657	28,898
3	374.2	Rights of Way	1,016	-	-	23	993
4	376	Mains - Plastic	3,105,777	5,793,367	1,798,853	233,129	10,464,868
5	376.5	Mains - Metallic	1,220,837	3,359,908	-	64,878	4,515,867
6	378	Meas. and reg. sta. equip. - general	37,555	-	1,375	1,321	37,609
7	379	Meas. and reg. sta. equip. - city gate	13,671	18,001	-	743	30,929
8	380	Services - Plastic	9,212,532	23,572	12,186,766	566,461	20,856,409
9	380.5	Services - Metallic	-	16,945	-	(24,588)	41,533
10	382	Meter installations	2,021	14,345	-	673	15,693
11	383	House Regulators	1,033	4,428	-	115	5,346
12	397	Communication Equipment	3,165	-	-	273	2,892
<b>13</b>	<b>Total</b>		<b>\$ 13,599,792</b>	<b>\$ 20,059,174</b>	<b>\$ 13,986,994</b>	<b>\$ 1,033,577</b>	<b>\$ 46,612,383</b>

**Kansas Gas Service  
A Division of ONE Gas**

**Gas System Reliability Surcharge**

**Exhibit LME-4**

**Accumulated Depreciation and Accumulated Deferred Income Tax**

**Accumulated Depreciation**

Line No.	(A)		(B)	(C)	(D)	(E)
	Account	Account	GSRs Projects Docket No. 14- KGSG-111-TAR	GSRs Projects Safety and Govt. Relocation	GSRs Blanket Work Orders	Total Accumulated Depreciation
1	367	Mains	-	189,892	-	\$ 189,892
2	369	Measuring and regulating station equip.	93	564	-	\$ 657
3	374.2	Rights of Way	23		-	\$ 23
4	376	Mains - Plastic	105,038	104,732	23,359	\$ 233,129
5	376.5	Mains - Metallic	24,471	40,407	-	\$ 64,878
6	378	Meas. and reg. sta. equip. - general	1,327	(7)	1	\$ 1,321
7	379	Meas. and reg. sta. equip. - city gate	288	455	-	\$ 743
8	380	Services - Plastic	394,306	382	171,773	\$ 566,461
9	380.5	Services - Metallic	(11,773)	316	(13,131)	\$ (24,588)
10	382	Meter installations	77	596	-	\$ 673
11	383	House Regulators	7	108	-	\$ 115
12	397	Communication Equipment	273	-	-	\$ 273
<b>13</b>	<b>Total</b>		<b>\$ 514,130</b>	<b>\$ 337,445</b>	<b>\$ 182,002</b>	<b>\$ 1,033,577</b>

**Accumulated Deferred Income Tax Liability**

Line No.			(B)	(C)	(D)	(E)
	Account	Account	GSRs Projects Docket No. 14- KGSG-111-TAR	GSRs Projects Safety and Govt. Relocation	GSRs Blanket Work Orders	Total ADIT
<b>1</b>	<b>Total</b>		<b>\$ (3,287,640)</b>	<b>\$ (3,701,934)</b>	<b>\$ (1,971,531)</b>	<b>\$ (8,961,105)</b>

Kansas Gas Service  
A Division of ONE Gas

Gas System Reliability Surcharge

Exhibit LME-5

Act. No.	Depreciation Expense Projects Included in 14-KGSG-111-TAR		Gross GSRs Additions (A)	Less: GSRs Retirements (B)	Net Depreciable GSRs Plant (C)(A+B)	Depreciation Rate (D)	Annualized Depreciation (E)
1	367	Mains	-	-	-	1.82%	-
2	369	Measuring and regulating station equip	2,185	-	2,185	2.91%	64
3	374.2	Rights of Way	1,016	-	1,016	1.39%	14
4	376	Mains - Plastic	3,105,777	70,863	3,034,914	2.23%	67,679
5	376.5	Mains - Metallic	1,220,837	247,042	973,795	1.53%	14,899
6	378	Meas and reg sta equip - general	37,555	2,280	35,275	2.37%	836
7	379	Meas and reg sta equip - city gate	13,671	37	13,634	1.88%	256
8	380	Services - Plastic	9,212,532	2,475	9,210,057	2.92%	268,934
9	380.5	Services - Metallic	-	298,214	(298,214)	2.55%	(7,604)
10	382	Meter installations	2,021	49	1,972	3.02%	60
11	383	House Regulators	1,033	662	371	1.91%	7
12	397	Communication Equipment	3,165	-	3,165	5.04%	160
<b>13</b>	<b>Total</b>		<b>13,599,792</b>	<b>621,622</b>	<b>12,978,170</b>		<b>345,303</b>

Act. No.	Depreciation Expense Safety and Government Relocation		Gross GSRs Additions (A)	Less: GSRs Retirements (B)	Net Depreciable GSRs Plant (C)(A+B)	Depreciation Rate (D)	Annualized Depreciation (E)
14	367	Mains	10,801,239	251,087	10,550,152	1.82%	192,013
15	369	Measuring and regulating station equip	27,370	-	27,370	2.91%	796
16	374.2	Rights of Way	-	-	-	1.39%	-
17	376	Mains - Plastic	5,793,367	157,352	5,636,015	2.23%	125,683
18	376.5	Mains - Metallic	3,359,908	651,179	2,708,728	1.53%	41,444
19	378	Meas and reg sta equip - general	-	327	(327)	2.37%	(8)
20	379	Meas and reg sta equip - city gate	18,001	2,298	15,703	1.88%	295
21	380	Services - Plastic	23,572	9,042	14,529	2.92%	424
22	380.5	Services - Metallic	16,945	2,209	14,736	2.55%	376
23	382	Meter installations	14,345	172	14,173	3.02%	428
24	383	House Regulators	4,428	85	4,342	1.91%	83
25	397	Communication Equipment	-	-	-	5.04%	-
<b>26</b>	<b>Total</b>		<b>20,059,174</b>	<b>1,073,752</b>	<b>18,985,422</b>		<b>361,534</b>

Act. No.	Depreciation Expense Depreciation Expense - Blanket Work Orders		Gross GSRs Additions (A)	Less: GSRs Retirements (B)	Net Depreciable GSRs Plant (C)(A+B)	Depreciation Rate (D)	Annualized Depreciation (E)
27	367	Mains	-	-	-	1.82%	-
28	369	Measuring and regulating station equip	-	-	-	2.91%	-
29	374.2	Rights of Way	-	-	-	1.39%	-
30	376	Mains - Plastic	1,798,853	-	1,798,853	2.23%	40,114
31	376.5	Mains - Metallic	-	-	-	1.53%	-
32	378	Meas and reg sta equip - general	1,375	-	1,375	2.37%	33
33	379	Meas and reg sta equip - city gate	-	-	-	1.88%	-
34	380	Services - Plastic	12,186,766	-	12,186,766	2.92%	355,854
35	380.5	Services - Metallic	-	1,028,428	(1,028,428)	2.55%	(26,225)
36	382	Meter installations	-	-	-	3.02%	-
37	383	House Regulators	-	-	-	1.91%	-
38	397	Communication Equipment	-	-	-	5.04%	-
<b>39</b>	<b>Total</b>		<b>13,986,994</b>	<b>1,028,428</b>	<b>12,958,566</b>		<b>369,776</b>

40 Total Depreciation Expense

**1,076,613**

Kansas Gas Service  
A Division of ONE Gas

Gas System Reliability Surcharge  
Development of GSRS Rate

Exhibit LME-6

Line No.	Customer Class (A)	Pro-Forma Revenue Docket No. 12- KGS-G-835-RTS (B)	% of Revenue Requirement Responsibility (C)	GSRS Revenue Requirement (Based upon ratio of pro- forma revenue to total revenue) (D)	Customers Per - 12- KGS-G-835-RTS Settlement - Appendix C (E)	GSRS Annual Charge (F)	GSRS Monthly Charge (G)
1	Residential Sales RS	\$ 198,433,092	70.642%	3,546,260	576,318	\$ 6.15	\$ 0.51
2	General Sales Svc Small	17,603,175	6.267%	314,592	34,895	\$ 9.02	\$ 0.75
3	General Sales Svc Large	17,117,303	6.094%	305,909	13,752	\$ 22.24	\$ 1.85
4	General Sales Svc Transport Eligible	3,407,442	1.213%	60,895	720	\$ 84.58	\$ 7.05
5	Small Generator Sales SGS	358,804	0.128%	6,412	567	\$ 11.31	\$ 0.94
6	Gas Irrigation Sales GIS	476,496	0.170%	8,516	228	\$ 37.35	\$ 3.11
7	Small Transportation STk	10,285,572	3.662%	183,817	3,308	\$ 55.57	\$ 4.63
8	Small Transportation STt	4,057,701	1.445%	72,516	1,034	\$ 70.13	\$ 5.84
9	Gas Irrigation Transportation GIIt	2,102,053	0.748%	37,566	458	\$ 82.02	\$ 6.84
10	1) Large Volume Transportation LVTK #	12,164,478	4.331%	217,395	436	\$ 498.61	\$ 41.55
11	2) Large Volume Transportation LVTT #	13,057,058	4.648%	233,347	126	\$ 1,851.96	\$ 154.33
12	Wholesale Transportation WTT #	1,745,073	0.621%	31,187	27	\$ 1,155.06	\$ 96.26
13	Sales Service for Resale SSR	26,754	0.010%	478	4	\$ 119.53	\$ 9.96
14	CNG	11,408	0.004%	204	1	\$ 203.88	\$ 16.99
15	Kansas Gas Supply D	54,335	0.019%	971	1	\$ 971.04	\$ 80.92

15	<b>Total</b>	<b>\$ 280,900,744</b>	<b>100%</b>	<b>\$ 5,020,065</b>
----	--------------	-----------------------	-------------	---------------------

16 1) Note: Residential Class Limited to annual increase of \$.40/month over the most recent GSRS filing.

	Annual Increase	Cumulative Rate
17 2014 GSRS Rate - Residential	\$ 0.15	\$ 0.15
18 2015 GSRS Rate - Residential	\$ 0.36	\$ 0.51
19 Total Residential Rate		\$ 0.51

20 \* Average Rates - Specific Rates for LVTK and LVTT Shown Below

21 # Includes flex revenue.

1) LVTK Rate Development		Minimum MCF Usage	Maximum	Customer Numbers - 835 Settlement plus June 2014 Flex Customers	Monthly Charge	Annual Tier Revenue
Tiers	(a)	(b)	(c)	(d)	(e) (c*d*12)	
1	-	10,000	227	9.05	\$ 24,652	
2	10,001	20,000	110	27.50	\$ 36,300	
3	20,001	40,000	63	59.70	\$ 45,133	
4	40,001	Any	75	123.40	\$ 111,060	
<b>Pro-Forma LVTK Revenue</b>					<b>217,395</b>	<b>\$ 217,145</b>

2) LVTT Rate Development		Minimum MCF Usage	Maximum	Customer Numbers - 835 Settlement plus June 2014 Flex Customers	Monthly Charge	Annual Tier Revenue
Tiers	(a)	(b)	(c)	(d)	(e) (c*d*12)	
1	-	10,000	50	17.50	\$ 10,500	
2	10,001	20,000	30	50.00	\$ 18,000	
3	20,001	40,000	21	130.00	\$ 32,760	
4	40,001	Any	53	270.00	\$ 171,720	
<b>Pro-Forma LVTT Revenue</b>					<b>233,347</b>	<b>\$ 232,980</b>

## THE STATE CORPORATION COMMISSION OF KANSAS

INDEX NO. 44.1

KANSAS GAS SERVICE  
 a division of ONE Gas, Inc.

SCHEDULE GSRs

All Rate Areas

(Territory to which schedule is applicable)

Replacing Schedule GSRs Sheet 1  
 which was filed November 25, 2013

No supplement or separate understanding  
 shall modify the tariff as shown hereon.

Sheet 1 of 2 SheetsGAS SYSTEM RELIABILITY SURCHARGE RIDER (Cont.)**AVAILABILITY**

This rider is applicable to every bill for service provided under each of the Company's sales and transportation rate schedules except where not permitted under a separately negotiated contract with a customer. Not applicable to bills for As-Available Gas Sales Service or Interruptible Gas Transportation Service.

**NET MONTHLY CHARGE**

The Gas System Reliability Surcharge (GSRs) shall be a fixed monthly amount calculated as the applicable GSRs times the number of meters serving the customer's account, as indicated by the total number of Service Charges billed.

RS	Residential Sales Service	\$ 0.51
GSS	General Sales Service Small	\$ 0.75
GSL	General Sales Service Large	\$ 1.85
GSTE	General Sales Service Transport Eligible	\$ 7.05
SGS	Small Generator Sales Service	\$ 0.94
KGSSD	Kansas Gas Supply D	\$ 80.92
GIS	Gas Irrigation Sales Service	\$ 3.11
SSR	Sales Service for Resale	\$ 9.96
STk	Small Transportation Service (k)	\$ 4.63
STt	Small Transportation Service (t)	\$ 5.84
LVTk	Large Volume Transportation Service (k)	
	Annual Use: Below 10,000 Mcf	\$ 9.05
	10,001 Mcf – 20,000 Mcf	\$ 27.50
	20,001 Mcf – 40,000 Mcf	\$ 59.70
	Above 40,001 Mcf	\$123.40
LVTt	Large Volume Transportation Service (t)	
	Annual Use: Below 10,000 Mcf	\$ 17.50
	10,001 Mcf – 20,000 Mcf	\$ 50.00
	20,001 Mcf – 40,000 Mcf	\$130.00
	Above 40,001 Mcf	\$270.00
WTt	Wholesale Transportation Service (t)	\$ 96.26
GITt	Gas Irrigation Transportation Service (t)	\$ 6.84
CNG	Compressed Natural Gas General Transportation	\$ 16.99

Issued \_\_\_\_\_  
 Month Day Year

Effective \_\_\_\_\_  
 Month Day Year

By \_\_\_\_\_  
 DAVID N. DITTEMORE, Manager-Regulatory Affairs



**THE STATE CORPORATION COMMISSION OF KANSAS**

INDEX NO 44.2

**KANSAS GAS SERVICE**  
a division of ONE Gas, Inc.  
(Name of Issuing Utility)

SCHEDULE GSRs

All Rate Areas  
(Territory to which schedule is applicable)

Replacing Schedule GSRs Sheet 2  
 which was filed November 25, 2013

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 2 of 2 Sheets

GAS SYSTEM RELIABILITY SURCHARGE RIDER (Cont.)

**DEFINITIONS AND CONDITIONS**

1. The provisions of this GSRs Rider are intended to recover charges for natural gas public utility plant projects pursuant to K.S.A. 66-2001 through K.S.A. 66-2204.
2. The GSRs shall be reflected on a customer's bill as a separate line item.
3. The Annual Use for customers served under a Large Volume Transportation (LVT) rate schedule shall be the total volumes billed to the applicable meter in the 12 months ending the most recent April 30. Company may rely on estimated historical usage or projected volumes to establish Annual Use when actual usage is not available
4. At the end of each twelve-month calendar period a GSRs is in effect, Company shall reconcile the difference between the revenues resulting from that GSRs and the pre-tax revenues found by the Commission to be appropriate for that period. Company shall calculate a GSRs adjustment which shall, upon Commission approval, recover or refund the difference.
5. All provisions of this rider are subject to changes made by order of the Commission.

Issued _____ <div style="display: flex; justify-content: space-around; font-size: small;"> <span>Month</span> <span>Day</span> <span>Year</span> </div>	
Effective _____ <div style="display: flex; justify-content: space-around; font-size: small;"> <span>Month</span> <span>Day</span> <span>Year</span> </div>	
By _____ DAVID N. DITTEMORE, Manager-Regulatory Affairs	