Header Detail

Work Order: 801323

Work Order Title: Repl 2814F 2-4-8P WalnutNolandCrane

Wo Type Description: WO-Replacement Mains & Svcs MGE

Work Order Group:

Current Revision: 1

Funding Project: F0604

Funding Project Desc: Main Replacement - ISRS (S)

Eligible for AFUDC yes Reason Code: Strategic

Eligible for CPI: yes

WO Description:Install 160 2" PL LP Main, 31 4" PL LP Main, 2623 8" PL LP Main along Noland Road, Walnut Street, Hocker Road, and Emery

Street.

Major Location: 0201-Independence

Asset Location: 0201-043001 JACKSON CTY/INDEPENDENCE

Estimated Start Date: Jan 30, 2018

Estimated Completion Date: Mar 05, 2018

Estimated In-Service Date:

Company: Spire Missouri Inc.

Department Description: Construction & Maintenance - Region 2B - Unio

Budget Description: Replace bare steel main - safety re

Status: posted to CPR

Business Segment: Missouri West

Department Code: 20638

Est. Annual Revenue:

Reimbursement Type: None

Retirement Type:

Functional Class: Distribution Plant

Notes: Abandon 2580 Ft of 8 in CI LP Main, 14 Ft of 6 in PL LP Main, 147 Ft of 2 in ST LP Main, 23 Ft of 4 in ST LP Main, 3 Ft of 8 in ST LP Main on the above mentioned streets. Total Service Tie-over = 48; Total Service Replacement = 4; Total Service

Abandoned = 5. This main is being replaced due to leaks and as part of FY18 Cast Iron Replacement Program.

Reason for Work (Justification)

Approvals

Level	Approver	Approval Limit	Date Approved
Operational Accounting	Muehlenkamp, Anne	\$0	12/28/2017
Engineering Review-Dist	§ Hoeferlin, Craig	\$0	1/2/2018
VP Field Operations-MGE	Hampton, Joe	\$1,000,000	1/2/2018

***** Unit Estimate *****									
Total Retirement Utility Account Additions Removal Cost Expenditures Value									
376100-Mains - Steel	\$0.00	\$8,055.44	\$8,055.44	\$0.00	\$0.00				
376200-Mains - Cast Iron	\$0.00	\$3,612.31	\$3,612.31	\$0.00	\$0.00				
376300-Mains - Plastic	\$391,211.80	\$853.46	\$392,065.26	\$0.00	\$0.00				
380100-Services - Steel	\$0.00	\$462.10	\$462.10	\$0.00	\$0.00				
380200-Services - Plastic & Copper	\$4,070.14	\$0.00	\$4,070.14	\$0.00	\$0.00				
Total Estimated Costs:	\$395,281.94	\$12,983.31	\$408,265.25	\$0.00	\$0.00				

Mar 05, 2018

eset Location									
Utility Account				e 1					
Retirement Unit Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs			
0201-043001 JACKSON CTY/INDEP		mt i	=		i n				
376200-Mains - Cast Iron									
Mains-Cast Iron 8"									
Contract Payroll	\$0.00	\$259.28	0	0	0	C			
Contractor Work	\$0.00	\$425.00	0	0	0				
Department Clearings	\$0.00	\$224.28	0	0	0	(
Mechanical Equipment	\$0.00	\$53.60	0	0	0	0			
Overheads Capitalized - Benefits	\$0.00	\$144.94	0	0	0	C			
Overheads Capitalized - General	\$0.00	\$889.80	0	0	0				
Payroll Taxes	\$0.00	\$39.41	0	0	0	(
Retirement Value	\$0.00	\$0.00	0	2580	0	(
Stores	\$0.00	\$1,576.00	0	0	0	(
SubTotal Utility Account:	\$0.00	\$3,612.31	0.00	2,580.00	0.00	0.00			
376300-Mains - Plastic									
Mains-Plastic 2"									
Contract Payroll	\$97.23	\$0.00	0	0	0	(
Contractor Work	\$7,426.58	\$0.00	0	0	0	(
Department Clearings	\$84.10	\$0.00	0	0	0	(
Mechanical Equipment	\$20.10	\$0.00	0	0	0	(
Overheads Capitalized - Benefits	\$54.35	\$0.00	0	0	0	(
Overheads Capitalized - General	\$3,270.88	\$0.00	0	0	0	C			
Payroll Taxes	\$14.78	\$0.00	0	0	0	(
Stores	\$234.86	\$0.00	160	0	0	0			
Mains-Plastic 4"									
Contract Payroll	\$32.41	\$0.00	0	0	0	C			
Contractor Work	\$1,819.48	\$0.00	0	0	0	C			
Department Clearings	\$28.03	\$0.00	0	0	0	C			
Mechanical Equipment	\$6.70	\$0.00	0	0	0	0			
Overheads Capitalized - Benefits	\$18.12	\$0.00	0	0	0	C			
Overheads Capitalized - General	\$1,115.97	\$0.00	0	0	0	C			
Payroll Taxes	\$4.93	\$0.00	0	0	. 0	0			
Stores	\$794.76	\$0.00	31	0	0	0			
Mains-Plastic 6"									
Contract Payroll	\$0.00	\$16.21	0	0	0	C			
Contractor Work	\$0.00	\$546.64	0	0	0	C			
Department Clearings	\$0.00	\$14.02	0	0	0	0			
Mechanical Equipment	\$0.00	\$3.35	0	0	0	0			
Overheads Capitalized - Benefits	\$0.00	\$9.06	0	0	0	0			
Overheads Capitalized - General	\$0.00	\$242.82	0	0	0	0			

***** Unit Estimate *****									
sset Location Utility Account Retirement Unit Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs			
0201-043001 JACKSON CTY/INDEP					14	0			
376300-Mains - Plastic									
Mains-Plastic 6"									
Payroll Taxes	\$0.00	\$2.46	0	0	0	0			
Retirement Value	\$0.00	\$0.00	0	. 14	0	0			
Stores	\$0.00	\$18.90	0	0	0	0			
Mains-Plastic 8"						200			
Contract Payroll	\$1,101.94	\$0.00	0	0	0	0			
Contractor Work	\$232,510.87	\$0.00	0	0	0	0			
Department Clearings	\$953.18	\$0.00	0	0	0	. 0			
Mechanical Equipment	\$227.80	\$0.00	. 0	0	0	0			
Overheads Capitalized - Benefits	\$615.98	\$0.00	0	0	0	0			
Overheads Capitalized - General	\$111,399.47	\$0.00	0	. 0	0	0			
Payroll Taxes	\$167.49	\$0.00	0	0	0	0			
Stores	\$29,211.79	\$0.00	2623	0	0	0			
SubTotal Utility Account:	\$391,211.80	\$853.46	2,814.00	14.00	0.00	0.00			
376100-Mains - Steel		4.5							
Mains-Steel 2"									
Contract Payroll	\$0.00	\$16.21	0	0	0	0			
Contractor Work	\$0.00	\$456.12	0	0	0	0			
Department Clearings	\$0.00	\$14.02	0	0	0	0			
Mechanical Equipment	\$0.00	\$3.35	0	0	0	0			
Overheads Capitalized - Benefits	\$0.00	\$9.06	0	0	0	0			
Overheads Capitalized - General	\$0.00	\$227.80	0	0	0	0			
Payroll Taxes	\$0.00	\$2.46	0	0	0	0			
Retirement Value	\$0.00	\$0.00	0	147	0	0			
Stores	\$0.00	\$74.10	0	0	0	0			
Mains-Steel 4"									
Contract Payroll	\$0.00	\$16.21	0	0	0	0			
Contractor Work	\$0.00	\$5.26	0	0	0	0			
Department Clearings	\$0.00	\$14.02	0	0	0	0			
Mechanical Equipment	\$0.00	\$3.35	0	0	0	0			
Overheads Capitalized - Benefits	\$0.00	\$9.06	0	0	0	0			
Overheads Capitalized - General	\$0.00	\$4.70	0	0	0	0			
Payroll Taxes	\$0.00	\$2.46	0	0	0	0			
Retirement Value	\$0.00	\$0.00	0	23	0	0			
Mains-Steel 8"	± = ==================================	\$ 4.20							
Contract Payroll	\$0.00	\$16.21	0	0	0	0			
Contractor Work	\$0.00	\$3,268.94	0	0	0	0			

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	****	Unit Estimate *****				
sset Location Utility Account Retirement Unit Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs
0201-043001 JACKSON CTY/INDEP				7711		7. 11 2 .
376100-Mains - Steel						
Mains-Steel 8"						
Department Clearings	\$0.00	\$14.02	0	0	0	
Mechanical Equipment	\$0.00	\$3.35	0	0	0	
Overheads Capitalized - Benefits	\$0.00	\$9.06	0	0	0	
Overheads Capitalized - General	\$0.00	\$2,134.83	0	0	0	C
Payroll Taxes	\$0.00	\$2.46	0	0	0	C
Retirement Value	\$0.00	\$0.00	0	3	0	0
Stores	\$0.00	\$1,748.39	0	0	0	0
SubTotal Utility Account:	\$0.00	\$8,055.44	0.00	173.00	0.00	0.00
380200-Services - Plastic & Copper						
Services-Plastic						
Contractor Work	\$2,758.80	\$0.00	0	0	0	0
Overheads Capitalized - General	\$1,213.90	\$0.00	0	0	0	0
Stores	\$97.44	\$0.00	0	0	0	0
SubTotal Utility Account:	\$4,070.14	\$0.00	0.00	0.00	0.00	0.00
380100-Services - Steel						
Services-Steel						
Contractor Work	\$0.00	\$324.28	0	0	0	0
Overheads Capitalized - General	\$0.00	\$137.82	0	0	0	0
SubTotal Utility Account:	\$0.00	\$462.10	0.00	0.00	0.00	0.00
SubTotal Location:	\$395,281.94	\$12,983.31	2,814.00	2,767.00	0.00	0.00
Total Unit Estimate:	\$395,281.94	\$12,983.31	2,814	2,767	0	0

*		***** Class Codes *****	No. 1
	Class Code	Value	
	cap_expense	capital	
	ISRS Reason	01 - Cast Iron Strategic Replacement	ent
	isrs_recov	yes	
	ohbenefits	yes	
	ohgen_supv	yes	
	prod_nonprod	prod	
	Project Classification	both	

An ages from the cast to a property of	7	s-Built ****			
Asset Location					
Utility Account Exp Type					
Est Charge Type	Retirement Unit	Job ta	sk	Dollars	Quantity
Lot only 1990		000 111		2011110	
sed in Unitization:					
2201-043001 JACKSON CTY/INDEPENT	DENCE				
376100-Mains - Steel					
Retirement					
Contract Payroll	Mains-Steel 2"			\$143.08	0
Contract Payroll	Mains-Steel 4"			\$71.54	0
Contract Payroll	Mains-Steel 8"			\$71.54	0
Contractor Work	Mains-Steel 8"			\$11,677.72	0
Contractor Work	Mains-Steel 4"			\$5,485.95	0
Contractor Work	Mains-Steel 2"			\$13,638.45	0
Department Clearings	Mains-Steel 2"			\$210.33	0
Department Clearings	Mains-Steel 8"			\$105.16	. 0
Department Clearings	Mains-Steel 4"			\$105.16	0
Overheads Capitalized - Benefits	Mains-Steel 4"			\$62.96	0
Overheads Capitalized - Benefits	Mains-Steel 8"			\$62.96	0
Overheads Capitalized - Benefits	Mains-Steel 2"			\$125.91	0
Overheads Capitalized - General	Mains-Steel 2"			\$8,422.64	0
Overheads Capitalized - General	Mains-Steel 4"			\$3,364.54	0
Overheads Capitalized - General	Mains-Steel 8"			\$8,330.37	0
Payroll Taxes	Mains-Steel 4"			\$10.87	0
Payroll Taxes	Mains-Steel 8"			\$10.87	0
Payroll Taxes	Mains-Steel 2"			\$21.75	0
Retirement Value	Mains-Steel 4"			\$137.86	22
Retirement Value	Mains-Steel 4"			\$328.92	101
Retirement Value	Mains-Steel 2"			\$169.18	150
Retirement Value	Mains-Steel 8"			\$325.50	27
Retirement Value	Mains-Steel 8"			\$844.97	114
Retirement Value	Mains-Steel 2"			\$165.76	148
Stores	Mains-Steel 2"			\$147.34	. 0
Stores	Mains-Steel 8"			\$1,967.71	0
Stores	Mains-Steel 4"			\$18.78	0
- Cloies	Wallis-Otcol 4	Retirement	Total:	\$56,027.82	562
376200-Mains - Cast Iron		Kethement	Total.	\$00,027.02	
Retirement					
Contract Payroll	Mains-Cast Iron 8"			\$1,180.41	0
Contractor Work	Mains-Cast Iron 8"			\$113,933.23	0
Department Clearings	Mains-Cast Iron 8"			\$1,735.20	0
Overheads Capitalized - Benefits	Mains-Cast Iron 8"			\$1,038.76	0
Overheads Capitalized - General	Mains-Cast Iron 8"			\$69,621.27	0
Payroll Taxes	Mains-Cast Iron 8"			\$179.42	0
Retirement Value	Mains-Cast Iron 8"			\$2,158.90	1,300
Retirement Value	Mains-Cast Iron 8"			\$2,104.10	1,267
Stores	Mains-Cast Iron 8"			\$20.04	0
Stores	mano Sastiron s	Retirement	Total:	\$191,971.33	2,567
376300-Mains - Plastic		Nethement	Jotun	¥101,071.00	2,007
Addition					
Contract Payroll	Mains-Plastic 8"			\$8,549.03	0
Contract Payroll	Mains-Plastic 6"			\$107.31	0

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Asset Location					
Utility Account					
Exp Type					
Est Charge Type	Retirement Unit	. Job ta	ask	Dollars	Quantit
sed in Unitization:					
201-043001 JACKSON CTY/INDEPEN	DENCE				
376300-Mains - Plastic					
Addition					
Contract Payroll	Mains-Plastic 2"			\$1,323.49	
Contract Payroll	Mains-Plastic 4"			\$250.39	
Contractor Work	Mains-Plastic 8"			\$231,852.73	
Contractor Work	Mains-Plastic 4"			\$47,254.12	
Contractor Work	Mains-Plastic 2"			\$47,404.26	
Contractor Work	Mains-Plastic 6"			\$512.94	
Department Clearings	Mains-Plastic 4"			\$368.07	
Department Clearings	Mains-Plastic 6"			\$157.75	
Department Clearings	Mains-Plastic 8"			\$12,567.07	
Department Clearings	Mains-Plastic 2"			\$1,945.53	
Overheads Capitalized - Benefits	Mains-Plastic 6"			\$94.43	
Overheads Capitalized - Benefits	Mains-Plastic 2"	ă.		\$1,164.67	
Overheads Capitalized - Benefits	Mains-Plastic 4"			\$220.34	
Overheads Capitalized - Benefits	Mains-Plastic 8"			\$7,523.15	
Overheads Capitalized - General	Mains-Plastic 6"			\$333.43	
the second of th	Mains-Plastic 8"			\$165,564.54	
Overheads Capitalized - General	Mains-Plastic 4"			\$29,248.84	
Overheads Capitalized - General					4
Overheads Capitalized - General	Mains-Plastic 2"			\$30,220.91	
Payroll Taxes	Mains-Plastic 2"			\$201.17	
Payroll Taxes	Mains-Plastic 6"			\$16.31	
Payroll Taxes	Mains-Plastic 8"			\$1,299.45	
Payroll Taxes	Mains-Plastic 4"			\$38.06	4.00
Stores	Mains-Plastic 2"			\$1,936.43	1,00
Stores	Mains-Plastic 6"			\$17.31	
Stores	Mains-Plastic 8"			\$38,261.18	2,73
Stores	Mains-Plastic 4"	A 1-1941	T. 4. 1.	\$656.62	10
380100-Services - Steel	T T Tale of	Addition	Iotal:	\$629,089.53	3,84
Retirement					
Contractor Work	Services-Steel		14	\$45.20	
Overheads Capitalized - General	Services-Steel			\$27.57	- 13
Retirement Value	Services-Steel			\$0.31	
Retirement Value	Services-Steel			\$0.62	9
*		Retirement	Total:	\$73.70	
380200-Services - Plastic & Copper					
Addition					
Contractor Work	Services-Plastic			\$10,345.50	
Overheads Capitalized - General	Services-Plastic			\$6,932.50	
Stores	Services-Plastic			\$1,019.25	82
		Addition	Total:	\$18,297.25	82:
Retirement	565 W NESTE 0=1			essión social vicina esta o	
Contractor Work	Services-Plastic			\$1,216.05	
Overheads Capitalized - General	Services-Plastic			\$741.79	
Retirement Value	Services-Plastic			\$441.62	5

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		***** As-Built *****			
Asset Location			393		
Utility Account			0		
Exp Type Est Charge Type	Retirement Unit		Job task	Dollars	Quantity
Lot offargo Typo			oob task	Dollars	Quantity
sed in Unitization:					
0201-043001 JACKSON CTY/INI	DEPENDENCE				
380200-Services - Plastic & Cop					
Retirement					
Retirement Value	Services-Plastic			\$815.51	111
Retirement Value	Services-Plastic			\$539.83	48
Retirement Value	Services-Plastic			\$809.56	95
Retirement Value	Services-Plastic			\$127.11	18
Retirement Value	Services-Plastic			\$81.28	4
Retirement Value	Services-Plastic			\$104.35	10
Retirement Value	Services-Plastic			\$619.85	54
Retirement Value	Services-Plastic			\$425.40	34
Retirement Value	Services-Plastic			\$223.03	10
Retirement Value	Services-Plastic			\$1,458.22	139
Retirement Value	Services-Plastic			\$304.62	23
Retirement Value	Services-Plastic			\$167.24	17
Retirement Value	Services-Plastic			\$575.09	40
Retirement Value	Services-Plastic			\$25.44	29
Retirement Value	Services-Plastic			\$447.46	42
Retirement Value	Services-Plastic			\$2,453.33	338
Retirement Value	Services-Plastic			\$667.81	65
Retirement Value	Services-Plastic		60	\$469.68	62
		Retir	ement Total:	\$12,714.27	1,191
\$ 		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
	Location Total:	\$647,386.78	4,668	\$260,787.12	4,329
		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
	Used in Unitization:	\$647,386.78	4,668	\$260,787.12	4,329
No.	and the state of the	Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
	Unit Estimate Total:	\$647,386.78	4,668	\$260,787.12	4,329

***** Work Order Retirements *****									
Business Segment	GL Account								
Asset Location					ä				
Utility Account	5								
Retirement Unit			Activity						
Asset Description		Vintage	Code	Retire Qty	Retirement Amount				
Posted Retirements:	" I ALI								
Missouri West	101000::Gas Plant in Service								
0201-043001 JACKSON CTY/INDE	PENDENCE								
376100-Mains - Steel									
Mains-Steel 2"									
OCR		1961	URET	148	\$165.76				
/47/40 42:E4nm					n				

Mains-Steel 4"

usiness Segme	nnt	GL Account	Order Retirements				
		GL Account					
Asset Location Utility Accoun	nt			1956	URET	22	\$137.86
Retirement	Unit				Activity		
	escription		_ = = = =	Vintage	Code	Retire Qty	Retirement Amount
		127					
222					LIDET	101	4000.00
OCR	M 1 OI LOU			1971	URET	101	\$328.92
	Mains-Steel 8"						
OCR				1971	URET	114	\$844.97
00							
OCR				1973	URET	27	\$325.50
				Utility Accou	ınt Total:	562	\$1,972.19
376200-Mains	- Cast Iron				_		1111, 411 11
	Mains-Cast Iron 8"						
OCR				1939	URET	1,267	\$2,104.10
Maria III				4000	HOET	4 000	00.450.00
OCR					URET _	1,300	\$2,158.90
				Utility Accou	ınt Total: _	2,567	\$4,263.00
380100-Servic							
	Services-Steel						
	車						
000				40.17	LIDET	•	60.04
OCR				1947	URET	3	\$0.31
		ž. =					
OCR				1947	URET	6	\$0.62
				Utility Accou		9	\$0.93
200200 01-	on Diostic 9 Comme			July 70000		•	\$3.00
3XUZUU-Servic	es - Plastic & Copper Services-Plastic						
000200 001110	Services-Plastic						
000200 001110							
000200 001410							
000200 001110							
OCR				1978	URET	29	\$25.44

***** Work Order Retirements *****									
Business Segment GL Account Asset Location Utility Account Retirement Unit		Activity							
Asset Description	Vintage	Code	Retire Qty	Retirement Amount					
Posted Retirements:									
Missouri West 101000::Gas Plant in Service									
0201-043001 JACKSON CTY/INDEPENDENCE									
380200-Services - Plastic & Copper									
Services-Plastic									
OCR	1982	URET	54	\$619.85					
OCR	1985	URET	52	\$441.62					
OCR	1986	URET	34	\$425.40					
OCR	1988	URET	40	\$575.09					
OCR	1989	URET	111	\$815.51					
OCR	1990	URET	65	\$667.81					
OCR	1993	URET	18	\$127.11					
OCR	1994	URET	95	\$809.56					
OCR	1995	URET	139	\$1,458.22					
OCR	1996	URET	10	\$104.35					
OCR	1997	URET	17	\$167.24					
OCR	1999	URET	338	\$2,453.33					
OCR	2000	URET	42	\$447.46					
OCR	2006	URET	23	\$304.62					
OCR	2007	URET	10	\$223.03					
OCR	2010	URET	4	\$81.28					
OCR	2018	URET _	62	\$469.68					
	Utility Accou	ınt Total:	1,191	\$10,756.43					
	Locati	on Total:	4,329	\$16,992.55					
	GL Accou	ınt Total:	4,329	\$16,992.55					
	Posted Reti	rements:	4,329	\$16,992.55					
	Work Ord	ler Total:	4,329	\$16,992.55					

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Header Detail

Work Order: 801627

Work Order Title: Repl 1295F 2-3-4P Leaks on Fairview

Eligible for CPI: yes

Wo Type Description: WO-Replacement Mains & Svcs MGE

Work Order Group:

Current Revision: 1 Funding Project: F0572

Funding Project Desc: Main Replacement - ISRS (SW)

Eligible for AFUDC yes

Reason Code: System Integrity

Company: Spire Missouri Inc.

Business Segment: Missouri West

Functional Class: Distribution Plant

Department Code: 20921

Department Description: Region 2B - SW Missouri - Distribution - Union

Budget Description: Replace bare steel main - safety re

Est. Annual Revenue:

Reimbursement Type: None

Retirement Type:

WO Description: Install ~ 1200 Ft. of 2 in. PL LP Main, ~ 10 Ft. of 3 in. PL LP Main, and ~ 85 Ft. of 4 in. PL LP Main on W Fairview Ave., S Maple

St., S Main St., and Grand Ave.

Major Location: 0601-Carthage

Asset Location: 0601-044025 JASPER CTY/CARTHAGE

Status: posted to CPR

Estimated Start Date: Feb 12, 2018

Estimated Completion Date: Apr 02, 2018

Estimated In-Service Date:

Apr 02, 2018

Notes: Replacement due to leaks along Fairview Ave from Maple to Grand in Carthage. Abandon 5 Ft of 3 in. PL LP Main, 621 Ft of 2 in. ST LP Main, 414 Ft of 3 in. ST LP Main on the above mentioned streets. Total Service Tie-over = 7; Total Service Abandoned = 1. This main is being replaced due to CP deficiencies and as part of FY18 Bare Steel Replacement Program.

Per Prita Malla the Estimate and the As Built are properly reflected with a difference in footage of 330 Feet.

Reason for Work (Justification)

Approvals

Level	Approver	Approval Limit	Date Approved
Operational Accounting	Muehlenkamp, Anne	\$0	1/19/2018
Engineering Review-Dist	§ Hoeferlin, Craig	\$0	1/22/2018
VP Field Operations-MGE	Hampton, Joe	\$1,000,000	1/22/2018

***** Unit Estimate *****								
Utility Account	Additions	Removal Cost	Total Expenditures	Retirement Value	Salvage			
376100-Mains - Steel	\$0.00	\$8,012.23	\$8,012.23	\$0.00	\$0.00			
376300-Mains - Plastic	\$78,890.41	\$447.34	\$79,337.75	\$0.00	\$0.00			
Total Estimated Costs:	\$78,890.41	\$8,459.57	\$87,349.98	\$0.00	\$0.00			

set Location					14	
Utility Account Retirement Unit Est. Chg Type	H L'E	Deti	A 4 4 0 5 .	Delles Obs	A dal I lan	Detire Use
Est. Ong Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs
0601-044025 JASPER CTY/CARTHA						
376300-Mains - Plastic						
Mains-Plastic 2"	0540.50	20.00				
Contract Payroll	\$518.56	\$0.00	0	0	0	0
Contractor Work	\$44,768.54	\$0.00	0	0	0	0
Department Clearings	\$448.55	\$0.00	0	0	0	0
Mechanical Equipment	\$107.20	\$0.00	0	0	0	0
Overheads Capitalized - Benefits	\$289.88	\$0.00	0	0	0	0
Overheads Capitalized - General	\$20,378.61	\$0.00	0	0	0	0
Payroll Taxes	\$78.82	\$0.00	0	0	0	0
Stores	\$2,995.85	\$0.00	1200	0	0	0
Mains-Plastic 3"						
Contract Payroll	\$32.41	\$16.21	0	0	0	0
Contractor Work	\$903.08	\$275.95	0	0	0	0
Department Clearings	\$28.03	\$14.02	0	0	0	0
Mechanical Equipment	\$6.70	\$3.35	0	0	0	0
Overheads Capitalized - Benefits	\$18.12	\$9.06	0	0	0	0
Overheads Capitalized - General	\$573.72	\$121.69	0	0	0	. 0
Payroll Taxes	\$4.93	\$2.46	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	5	0	0
Stores	\$435.26	\$4.60	10	0	0	0
Mains-Plastic 4"						
Contract Payroll	\$64.82	\$0.00	0	. 0	0	0
Contractor Work	\$4,444.16	\$0.00	0	0	0	0
Department Clearings	\$56.07	\$0.00	0	0	0	0
Mechanical Equipment	\$13.40	\$0.00	0	0	0	0
Overheads Capitalized - Benefits	\$36.23	\$0.00	0	0	0	0
Overheads Capitalized - General	\$2,130.95	\$0.00	0	0	0	0
Payroll Taxes	\$9.85	\$0.00	0	0	0	0
Stores	\$546.67	\$0.00	85	0	0	0
SubTotal Utility Account:	\$78,890.41	\$447.34	1,295.00	5.00	0.00	0.00
376100-Mains - Steel						
Mains-Steel 2"						
Contract Payroll	\$0.00	\$81.02	0	0	0	0
Contractor Work	\$0.00	\$3,774.90	0	0	0	0
Department Clearings	\$0.00	\$70.08	0	0	0	0
Mechanical Equipment	\$0.00	\$16.75	0	0	0	0
Overheads Capitalized - Benefits	\$0.00	\$45.29	0	0	0	. 0
Overheads Capitalized - General	\$0.00	\$1,810.03	0	0	0	0

	****	Unit Estimate *****				
sset Location Utility Account Retirement Unit Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs
0601-044025 JASPER CTY/CARTHA						
376100-Mains - Steel						
Mains-Steel 2"						
Payroll Taxes	\$0.00	\$12.32	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	621	0	0
Stores	\$0.00	\$455.04	0	0	0	0
Mains-Steel 3"						
Contract Payroll	\$0.00	\$64.82	. 0	0	0	0
Contractor Work	\$0.00	\$1,033.60	0	0	0	0
Department Clearings	\$0.00	\$56.07	0	0	0	0
Mechanical Equipment	\$0.00	\$13.40	0	0	0	0
Overheads Capitalized - Benefits	\$0.00	\$36.23	0	0	0	0
Overheads Capitalized - General	\$0.00	\$474.09	0	0	0	0
Payroll Taxes	\$0.00	\$9.85	0	0	0	. 0
Retirement Value	\$0.00	\$0.00	0	414	0	0
Stores	\$0.00	\$58.74	0	0	0	0
SubTotal Utility Account:	\$0.00	\$8,012.23	0.00	1,035.00	0.00	0.00
SubTotal Location:	\$78,890.41	\$8,459.57	1,295.00	1,040.00	0.00	0.00
Total Unit Estimate:	\$78,890.41	\$8,459.57	1,295	1,040	0	0

	****	* Class Codes *****		
Class	Code	Value		
cap_ex	pense	capital		
ISRS R	eason	08 - Cast Iron or Bare Steel Replace	ment - Lea	
isrs_red	cov	yes		
ohbene	fits	yes		
ohgen_	supv	yes		
prod_ne	onprod	prod		
Project	Classification	both		
	***	** As-Built *****		
Asset Location Utility Account				
Exp Type		e sauna n	200	_
Est Charge Type	Retirement Unit	Job task	Dollars	Quantity
Jsed in Unitization:				
0601-044025 JASPER CTY/CARTH	HAGE			
376100-Mains - Steel				
Retirement				
Contract Payroll	Mains-Steel 4"		\$32.60	0
/47/40 49:E4nm				Dano 3 o

		**** As-Bui	It ****	11	
et Location ity Account					
kp Type Contract Payroll Est Charge Type	Mains-Steel 3" Retirement Unit	n Soul Barre so a	Job task	\$228.20 Dollars	Quanti
Contractor Work	Mains-Steel 4"			\$10.73	
		2			
Contractor Work	Mains-Steel 2"			\$4,948.82	
				Mark Mark Control	
	T. 100 March 10 March				
Contractor Work	Mains-Steel 3"			\$5,928.85	
Department Clearings	Mains-Steel 2"			\$281.99	
		383			
Department Clearings	Mains-Steel 3"			\$197.39	
Department Clearings	Mains-Steel 4"			\$28.20	
Overheads Capitalized - Benefits	Mains-Steel 2"			\$182.23	
Overheads Capitalized - Benefits	Mains-Steel 3"			\$127.56	
Overheads Capitalized - Benefits	Mains-Steel 4"			\$18.22	
Overheads Capitalized - General	Mains-Steel 2"			\$2,893.45	
220					

		Built *****		
set Location tilityvAdteadstCapitalized - General Exp Type	Mains-Steel 4"		\$6.65	0
Est Charge Type	Retirement Unit	Job task	Dollars	Quantity
		14 60		
Payroll Taxes	Mains-Steel 2"		\$49.55	0
1 dylon luxes	Manie Gloor E		en en en en	
Payroll Taxes	Mains-Steel 4"		\$4.96	0
452		Si V		
Payroll Taxes	Mains-Steel 3"		\$34.69	0
= =1 8				
Retirement Value	Mains-Steel 2"		\$4.97	76
				61.5
Retirement Value	Mains-Steel 3"		\$12.64	3
Retirement Value	Mains-Steel 2"		\$0.98	15
			****	11
Retirement Value	Mains-Steel 2"		\$148.34	71
D. W. L.	Maine Otest Off		\$223.47	74
Retirement Value	Mains-Steel 2"		\$223.47	
			ę.	
Retirement Value	Mains-Steel 2"		\$216.41	9
Total Cilionic Volus			V 2.2	
Retirement Value	Mains-Steel 2"		\$207.48	456
CLANCE CONTROL CONTROL			197	

sset Location					
Utility Account					
Ехр Туре					
Est Charge Type	Retirement Unit	Job ta	ask	Dollars	Quantit
9-3-1 (april 1976) 7-1					
ed in Unitization:					
601-044025 JASPER CTY/CARTHAGE					
376100-Mains - Steel Retirement					
Retirement Value	Mains-Steel 3"		(69)	\$65.38	24
Retirement Value	Mains-Steel 4"			\$77.76	1
Stores	Mains-Steel 3"			\$544.33	-
Stores	Mains-Steel 2"	25		\$1,810.20	
Stores	Mains-Steel 2	Retirement	Total:	\$21,495.83	1,39
376300-Mains - Plastic		Kethement	iotai.	\$21,495.05	1,39
Addition					
Contract Payroll	Mains-Plastic 2"			\$2,347.20	
Contract Payroll	Mains-Plastic 4"			\$2,347.20	
Contractor Work	Mains-Plastic 2"			\$71,711.53	
Contractor Work	Mains-Plastic 4"			\$8,286.77	
Department Clearings	Mains-Plastic 2"			\$2,030.33	
Department Clearings	Mains-Plastic 4"			\$2,030.33	
Overheads Capitalized - Benefits	Mains-Plastic 4"			\$1,312.08	
Overheads Capitalized - Benefits	Mains-Plastic 2"			\$1,312.08	
Overheads Capitalized - General	Mains-Plastic 2"			\$32,809.47	
Overheads Capitalized - General	Mains-Plastic 4"	i-		\$3,773.33	
Payroll Taxes	Mains-Plastic 2"			\$356.77	
Payroll Taxes	Mains-Plastic 4"	\$		\$356.77	
Stores	Mains-Plastic 4"			\$238.19	6
Stores	Mains-Plastic 2"			\$5,133.77	1,56
		Addition	Total:	\$134,045.82	1,62
Retirement					
Contract Payroll	Mains-Plastic 3"			\$32.60	
Contract Payroll	Mains-Plastic 2"			\$32.60	
Contractor Work	Mains-Plastic 3"			\$10.73	
Contractor Work	Mains-Plastic 2"			\$21.46	
Department Clearings	Mains-Plastic 2"			\$28.20	
Department Clearings	Mains-Plastic 3"			\$28.20	
Overheads Capitalized - Benefits	Mains-Plastic 3"			\$18.22	
Overheads Capitalized - Benefits	Mains-Plastic 2"			\$18.22	
Overheads Capitalized - General	Mains-Plastic 3"			\$8.63	
Overheads Capitalized - General	Mains-Plastic 2"			\$11.21	8
Payroll Taxes	Mains-Plastic 3"			\$4.96	
Payroll Taxes	Mains-Plastic 2"			\$4.96	
Retirement Value	Mains-Plastic 3"			\$602.40	1
Retirement Value	Mains-Plastic 2"			\$34.06	
Retirement Value	Mains-Plastic 2"			\$182.90	5
Stores	Mains-Plastic 3"			\$4.67	
		Retirement	Total	\$1,044.02	7

Work Order Authorization Information ***** As-Built ******

Job task

Dollars

Schedule JAR-D-7

17/122

Quantity

Retirement Unit

Asset Location Utility Account Exp Type

Est Charge Type

sed in Unitization:	<u>-</u> -6					
0601-044025 JASPER CTY/CARTHAG	E					
380200-Services - Plastic & Copper						
Addition	One in a Disalia				60	00 65
Stores	Services-Plastic			-	\$0.	
		A	ddition Tot	al:	\$0.	00 67
Retirement	O i Diii-				620	00
Contract Payroll	Services-Plastic				\$32.	
Department Clearings	Services-Plastic				\$28.	
Overheads Capitalized - Benefits	Services-Plastic				\$18. \$2.	
Overheads Capitalized - General	Services-Plastic				\$4.	
Payroll Taxes	Services-Plastic				\$4. \$213.	
Retirement Value	Services-Plastic					
Retirement Value Retirement Value	Services-Plastic Services-Plastic				\$1,164. \$1,096.	
Retirement value	Services-Plastic	D.41	· · · · · · · · · · · · · · · · · · ·	-1-		2012
			rement Tot		\$2,560.	
. 1	Location Total:	Addition Dollars \$134,045.82	<u>Add Q</u> 1,69		Retirement Dolla \$25,099.9	
		Addition Dollars	Add Q	¥	Retirement Dolla	rs Retire Qt
Use	ed in Unitization:	\$134,045.82	1,69	2	\$25,099.9	97 1,670
100 No.	To see the see of	Addition Dollars	Add Q	v	Retirement Dolla	rs Retire Qt
Uni	it Estimate Total:	\$134,045.82	1,69		\$25,099.9	
	**** \Mo	rk Order Petirements **	***			
usiness Seament		rk Order Retirements **	***			
	***** Wor	rk Order Retirements **	***			
		rk Order Retirements **	***			
Asset Location Utility Account Retirement Unit		rk Order Retirements **		Activity		
Asset Location Utility Account Retirement Unit Asset Description		rk Order Retirements **	*** Vintage	Activity Code	Retire Qty	Retirement Amoun
Asset Location Utility Account Retirement Unit Asset Description ested Retirements:		rk Order Retirements **		Activity Code	Retire Qty	Retirement Amoun
Asset Location Utility Account Retirement Unit Asset Description ested Retirements: issouri West	GL Account 101000::Gas Plan	,		Activity Code	Retire Qty	Retirement Amoun
Asset Location Utility Account Retirement Unit Asset Description sted Retirements: issouri West 0601-044025 JASPER CTY/CARTHAG	GL Account 101000::Gas Plan	,		Activity Code	Retire Qty	Retirement Amoun
Asset Location Utility Account Retirement Unit Asset Description Usted Retirements: Ussouri West 0601-044025 JASPER CTY/CARTHAG	GL Account 101000::Gas Plan	,		Activity Code	Retire Qty	Retirement Amoun
Asset Location Utility Account Retirement Unit Asset Description ested Retirements: Ussouri West 0601-044025 JASPER CTY/CARTHAG 376100-Mains - Steel Mains-Steel 2"	GL Account 101000::Gas Plan	,	Vintage	Code	No.	4
Asset Location Utility Account Retirement Unit Asset Description Usted Retirements: Use Unit Use Use Use Unit Use	GL Account 101000::Gas Plan	,		Activity Code	Retire Qty	11
Asset Location Utility Account Retirement Unit Asset Description ested Retirements: Ussouri West 0601-044025 JASPER CTY/CARTHAG 376100-Mains - Steel Mains-Steel 2"	GL Account 101000::Gas Plan	,	Vintage	Code	No.	4
Asset Location Utility Account Retirement Unit Asset Description sted Retirements: issouri West 0601-044025 JASPER CTY/CARTHAG 376100-Mains - Steel Mains-Steel 2" OCR	GL Account 101000::Gas Plan	,	Vintage	URET	15	\$0.98
Asset Location Utility Account Retirement Unit Asset Description sted Retirements: issouri West 0601-044025 JASPER CTY/CARTHAG 376100-Mains - Steel Mains-Steel 2" OCR	GL Account 101000::Gas Plan	,	Vintage 1939	URET	No.	\$0.98 \$207.48
Asset Location Utility Account Retirement Unit Asset Description sted Retirements: issouri West 0601-044025 JASPER CTY/CARTHAG 376100-Mains - Steel Mains-Steel 2" OCR	GL Account 101000::Gas Plan	,	Vintage 1939	URET	15 456	\$0.98 \$207.48 \$4.97
Asset Location Utility Account Retirement Unit Asset Description Utility Asset Description Usted Retirements: Ussouri West U601-044025 JASPER CTY/CARTHAG 376100-Mains - Steel Mains-Steel 2" OCR OCR	GL Account 101000::Gas Plan	,	Vintage 1939 1939 1939	URET URET URET	15 456 76	\$0.98 \$207.48 \$4.97 \$148.34
Asset Location Utility Account Retirement Unit Asset Description sted Retirements: Issouri West 10601-044025 JASPER CTY/CARTHAG 376100-Mains - Steel Mains-Steel 2" OCR OCR OCR OCR OCR	GL Account 101000::Gas Plan	,	Vintage 1939 1939 1939 1951	URET URET URET URET	456 76 77	\$0.98 \$207.48 \$4.97 \$148.34 \$223.47
Asset Location Utility Account Retirement Unit Asset Description Sted Retirements: Issouri West 0601-044025 JASPER CTY/CARTHAG 376100-Mains - Steel Mains-Steel 2" OCR OCR OCR OCR OCR OCR OCR	GL Account 101000::Gas Plan	,	Vintage 1939 1939 1939 1951 1972	URET URET URET URET URET URET	456 76 77 74	\$0.98 \$207.48 \$4.97 \$148.34 \$223.47
Asset Location Utility Account Retirement Unit Asset Description Sted Retirements: Securi West D601-044025 JASPER CTY/CARTHAG 376100-Mains - Steel Mains-Steel 2" OCR OCR OCR OCR OCR OCR OCR OC	GL Account 101000::Gas Plan	,	Vintage 1939 1939 1939 1951 1972	URET URET URET URET URET URET	456 76 77 74	\$207.48 \$4.97 \$148.34 \$223.47 \$216.41
Retirement Unit Asset Description Disted Retirements: Dissouri West D601-044025 JASPER CTY/CARTHAG 376100-Mains - Steel Mains-Steel 2" OCR OCR OCR OCR OCR OCR OCR OC	GL Account 101000::Gas Plan	,	Vintage 1939 1939 1951 1972 1978	URET URET URET URET URET URET	456 76 77 74 9	\$207.48 \$4.97 \$148.34 \$223.47 \$216.41 \$118.07 \$65.38

	***** Wo	rk Order Retirements	****			
Business Segment	GL Account			iti		
Asset Location		**				
Utility Account						
Retirement Unit			11 to 11	Activity		The Property of
Asset Description			Vintage Code		Retire Qty	Retirement Amount
Posted Retirements:			-			
Missouri West	101000::Gas Plar	nt in Service				
0601-044025 JASPER CTY/CARTHAGE						
376100-Mains - Steel						
Mains-Steel 4"						
OCR		14	1971	URET _	10	\$77.76
			Utility Accou	unt Total:	1,399	\$1,075.50
376300-Mains - Plastic						
Mains-Plastic 2"						
OCR			1978	URET	8	\$34.06
OCR			1989	URET	58	\$182.90
Mains-Plastic 3"						
OCR			2000	URET	11	\$602.40
			Utility Accou	unt Total:	77	\$819.36
380200-Services - Plastic & Copper				5 %		
Services-Plastic						
OCR			1993	URET	119	\$1,096.54
OCR			1995	URET	70	\$1,164.41
OCR			2012	URET	11	\$213.10
			Utility Accou	unt Total:	200	\$2,474.05
			Locati	ion Total:	1,676	\$4,368.91
			GL Accou	unt Total:	1,676	\$4,368.91
			Posted Reti	rements:	1,676	\$4,368.91
			Work Ord	der Total:	1,676	\$4,368.91

6/17/19 12:51pm

Page 8 of 8

Header Detail

Work Order: 801844

Work Order Title: Repl 700F 2P 63rd & Baltimore

Wo Type Description: WO-Replacement Mains & Svcs MGE

Work Order Group: Current Revision: 1

Funding Project: F0599
Funding Project Desc: Main Replacement - ISRS (N)

Eligible for AFUDC yes

Eligible for CPI: yes

Reason Code: Asset Improvements

WO Description:Install ~ 700 ft of 2 in PL IP main along Baltimore.

Major Location: 0401-KC/MO - Central

Asset Location: 0401-043050 JACKSON CTY/KC

Company: Spire Missouri Inc.

Business Segment: Missouri West Functional Class: Distribution Plant

Department Code: 20648

Department Description: Construction & Maintenance - Region 2A - Unio

Budget Description: Replace cast iron main - CPI / prio

Est. Annual Revenue:
Reimbursement Type: None
Retirement Type:

Status: posted to CPR

Estimated Start Date: Jan 02, 2018

Estimated Completion Date: Jan 05, 2018

Estimated In-Service Date:

Jan 05, 2018

Notes: Abandon ~ 551 ft of 4 in CI LP main and ~ 13 ft of 4 in ST at same location. Total Service Tie-over = 9; Total Service Replace =

3. This main is being replaced due to a leak.

Reason for Work (Justification) -

Approvals

Level	Approver	Approval Limit	Date Approved
Operational Accounting	Muehlenkamp, Anne	\$0	12/18/2017
Engineering Review-Dist	§ Hoeferlin, Craig	\$0	1/2/2018
VP Field Operations-MGE	Hampton, Joe	\$1,000,000	1/2/2018

***** Unit Estimate *****								
Utility Account	Additions	Removal Cost	Total Expenditures	Retirement Value	Salvage			
376100-Mains - Steel	\$0.00	\$95.11	\$95.11	\$0.00	\$0.00			
376200-Mains - Cast Iron	\$0.00	\$7,217.31	\$7,217.31	\$0.00	\$0.00			
376300-Mains - Plastic	\$41,807.27	\$0.00	\$41,807.27	\$0.00	\$0.00			
380200-Services - Plastic & Copper	\$7,653.19	\$0.00	\$7,653.19	\$0.00	\$0.00			
Total Estimated Costs:	\$49,460.46	\$7,312.42	\$56,772.88	\$0.00	\$0.00			

set Location		Unit Estimate *****			-	
Utility Account						
Retirement Unit						
Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs
0401-043050 JACKSON CTY/KC						
376200-Mains - Cast Iron		ā				Aug.
Mains-Cast Iron 4"	1 1 10 20 20	24.000.74			1 1 1 10	
Contract Payroll	\$0.00	\$1,236.74	0	0	0	
Contractor Work	\$0.00	\$2,279.36	0	0	0	1 0
Department Clearings	\$0.00	\$1,069.78	0	0	0	C
Mechanical Equipment	\$0.00	\$102.20	0	0	0	0
Overheads Capitalized - Benefits	\$0.00	\$691.34	0	0	0	C
Overheads Capitalized - General	\$0.00	\$1,257.91	0	0	0	0
Payroll Taxes	\$0.00	\$187.98	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	551	0	C
Stores	\$0.00	\$392.00	0	0	0	C
SubTotal Utility Account:	\$0.00	\$7,217.31	0.00	551.00	0.00	0.00
376300-Mains - Plastic						
Mains-Plastic 2"						
Contract Payroll	\$1,296.40	\$0.00	0	0	0	0
Contractor Work	\$25,362.91	\$0.00	0	0	0	0
Department Clearings	\$1,121.39	\$0.00	0	0	0	0
Mechanical Equipment	\$268.00	\$0.00	0	0	0	0
Overheads Capitalized - Benefits	\$724.69	\$0.00	0	0	0	0
Overheads Capitalized - General	\$11,531.06	\$0.00	0	0	0	0
Payroll Taxes	\$197.05	\$0.00	0	0	0	0
Stores	\$1,305.77	\$0.00	700	0	0	0
SubTotal Utility Account:	\$41,807.27	\$0.00	700.00	0.00	0.00	0.00
376100-Mains - Steel		ä	11		1 317	
Mains-Steel 4"						
Contract Payroll	\$0.00	\$32.41	0	0	0	0
Department Clearings	\$0.00	\$28.03	0	0	0	0
Mechanical Equipment	\$0.00	\$6.70	0	0	0	0
Overheads Capitalized - Benefits	\$0.00	\$18.12	0	0	0	0
Overheads Capitalized - General	\$0.00	\$4.92	0	0	0	0
Payroll Taxes	\$0.00	\$4.93	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	13	0	0
SubTotal Utility Account:	\$0.00	\$95.11	0.00	13.00	0.00	0.00
380200-Services - Plastic & Copper	, , , , , , , , , , , , , , , , , , ,	******				
Services-Plastic						
Contractor Work	\$5,370.66	\$0.00	0	0	0	0

	****	Unit Estimate *****				
Asset Location Utility Account Retirement Unit				ei I z		
Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs
0401-043050 JACKSON CTY/KC	343					-
380200-Services - Plastic & Copper						
Services-Plastic						
Overheads Capitalized - General	\$2,282.53	\$0.00	0	0	0	0
SubTotal Utility Account:	\$7,653.19	\$0.00	0.00	0.00	0.00	0.00
SubTotal Location:	\$49,460.46	\$7,312.42	700.00	564.00	0.00	0.00
Total Unit Estimate:	\$49,460.46	\$7,312.42	700	564	0	0

	****	Class Codes *****		
Class Cod	е	Value		
cap_expen	se	capital		
ISRS Reas	on	08 - Cast Iron or Bare Steel Repla	cement - Lea	
isrs_recov		yes		
-ohbenefits		yes		
ohgen_sup	V	yes		
prod_nonpi	rod	prod		
Project Cla	ssification	both		
	***	** As-Built *****		
Asset Location				
Utility Account				
Exp Type				
Est Charge Type	Retirement Unit	Job task	Dollars	Quantity
	B) # / -			
sed in Unitization:		**		
0401-043050 JACKSON CTY/KC				
376100-Mains - Steel				
Retirement				P
Contract Payroll	Mains-Steel 4"		\$163.00	C
Contractor Work	Mains-Steel 4"		\$4,029.20	C
Department Clearings	Mains-Steel 4"		\$141.00	(
Overheads Capitalized - Benefits	Mains-Steel 4"		\$91.12	C
Overheads Capitalized - General	Mains-Steel 4"		\$1,722.84	0
Payroll Taxes	Mains-Steel 4"		\$24.78	
Retirement Value	Mains-Steel 4"		\$72.30	13
		Retirement Total:	\$6,244.24	13
376200-Mains - Cast Iron				
Retirement				
Contract Payroll	Mains-Cast Iron 4"		\$65.20	C
Contractor Work	Mains-Cast Iron 4"	ю _ж	\$2,470.48	C

Utility Account Exp Type Est Charge Type Sed in Unitization: 1401-043050 JACKSON CTY/KC 376200-Mains - Cast Iron Retirement Overheads Capitalized - Benefits Overheads Capitalized - General Payroll Taxes Retirement Value Stores 376300-Mains - Plastic Addition	Mains-Cast Iron 4"		Job ta	sk	\$36.45 \$1,068.74 \$9.91 \$67.85	Quantity () () () () () () ()
sed in Unitization: 1401-043050 JACKSON CTY/KC 1376200-Mains - Cast Iron Retirement Overheads Capitalized - Benefits Overheads Capitalized - General Payroll Taxes Retirement Value Stores 376300-Mains - Plastic Addition	Mains-Cast Iron 4" Mains-Cast Iron 4" Mains-Cast Iron 4" Mains-Cast Iron 4"			sk	\$36.45 \$1,068.74 \$9.91 \$67.85	0
sed in Unitization: 1401-043050 JACKSON CTY/KC 1376200-Mains - Cast Iron Retirement Overheads Capitalized - Benefits Overheads Capitalized - General Payroll Taxes Retirement Value Stores 1376300-Mains - Plastic Addition	Mains-Cast Iron 4" Mains-Cast Iron 4" Mains-Cast Iron 4" Mains-Cast Iron 4"			sk	\$36.45 \$1,068.74 \$9.91 \$67.85	(
A401-043050 JACKSON CTY/KC 376200-Mains - Cast Iron Retirement Overheads Capitalized - Benefits Overheads Capitalized - General Payroll Taxes Retirement Value Stores 376300-Mains - Plastic Addition	Mains-Cast Iron 4" Mains-Cast Iron 4" Mains-Cast Iron 4"		Retirement		\$1,068.74 \$9.91 \$67.85	(
A401-043050 JACKSON CTY/KC 376200-Mains - Cast Iron Retirement Overheads Capitalized - Benefits Overheads Capitalized - General Payroll Taxes Retirement Value Stores 376300-Mains - Plastic Addition	Mains-Cast Iron 4" Mains-Cast Iron 4" Mains-Cast Iron 4"		Retirement		\$1,068.74 \$9.91 \$67.85	(
376200-Mains - Cast Iron Retirement Overheads Capitalized - Benefits Overheads Capitalized - General Payroll Taxes Retirement Value Stores 376300-Mains - Plastic Addition	Mains-Cast Iron 4" Mains-Cast Iron 4" Mains-Cast Iron 4"		Retirement		\$1,068.74 \$9.91 \$67.85	. (
Retirement Overheads Capitalized - Benefits Overheads Capitalized - General Payroll Taxes Retirement Value Stores 376300-Mains - Plastic Addition	Mains-Cast Iron 4" Mains-Cast Iron 4" Mains-Cast Iron 4"		Retirement		\$1,068.74 \$9.91 \$67.85	
Overheads Capitalized - Benefits Overheads Capitalized - General Payroll Taxes Retirement Value Stores 376300-Mains - Plastic Addition	Mains-Cast Iron 4" Mains-Cast Iron 4" Mains-Cast Iron 4"		Retirement		\$1,068.74 \$9.91 \$67.85	. (
Overheads Capitalized - General Payroll Taxes Retirement Value Stores 376300-Mains - Plastic Addition	Mains-Cast Iron 4" Mains-Cast Iron 4" Mains-Cast Iron 4"		Retirement		\$1,068.74 \$9.91 \$67.85	
Payroll Taxes Retirement Value Stores 376300-Mains - Plastic Addition	Mains-Cast Iron 4" Mains-Cast Iron 4"		Retirement		\$9.91 \$67.85	-
Retirement Value Stores 376300-Mains - Plastic Addition	Mains-Cast Iron 4"		Retirement		\$67.85	
Stores 376300-Mains - Plastic Addition		ě	Retirement		255 486	01
376300-Mains - Plastic Addition	Mains-Cast Holl 4	č	Retirement		\$34.38	3(
Addition				Total	\$3,809.41	54
Addition			romonon	Total.	ψ0,000.41	
Contract December						
Contract Payroll	Mains-Plastic 2"				\$391.20	(
Contractor Work	Mains-Plastic 2"				\$14,720.46)
Department Clearings	Mains-Plastic 2"				\$338.39	3
Overheads Capitalized - Benefits	Mains-Plastic 2"				\$218.68	
Overheads Capitalized - General	Mains-Plastic 2"				\$9,006.87	
Payroll Taxes	Mains-Plastic 2"				\$59.46	Ü
Stores	Mains-Plastic 2"				\$6,413.27	710
3	5,500,200,400,000,000,500,500,600,600,600,600,600,6		Addition	Total:	\$31,148.33	71
380100-Services - Steel						
Retirement						
Contractor Work	Services-Steel				\$162.14	
Overheads Capitalized - General	Services-Steel				\$68.91	
Retirement Value	Services-Steel				\$16.58	4
Retirement Value	Services-Steel				\$116.89	8
			Retirement	Total:	\$364.52	13
380200-Services - Plastic & Copper					He	
Addition						
Contract Payroll	Services-Plastic				\$244.50	
Contractor Work	Services-Plastic				\$3,412.80	
Department Clearings	Services-Plastic				\$211.49	
Overheads Capitalized - Benefits	Services-Plastic				\$136.68	
Overheads Capitalized - General	Services-Plastic				\$1,489.85	9
Payroll Taxes	Services-Plastic				\$37.16	
Stores	Services-Plastic				\$55.92	26
		= =	Addition	Total:	\$5,588.40	26
Retirement	Condess Dissile				6460.44	9.
Contractor Work	Services-Plastic				\$162.14	
Overheads Capitalized - General	Services-Plastic				\$68.91	4
Retirement Value	Services-Plastic				\$79.21	1
Retirement Value	Services-Plastic				\$20.58	2
Retirement Value	Services-Plastic				\$365.12	2
Retirement Value Retirement Value	Services-Plastic Services-Plastic				\$103.61 \$1,079.77	11:

		**** As-Built ****			19
Asset Location	7				
Utility Account					
Ехр Туре					
Est Charge Type	Retirement Unit		Job task	Dollars	Quantity
	*				
Used in Unitization:					
0401-043050 JACKSON CTY/KC					
380200-Services - Plastic & Coppe	er .				
Retirement					
Retirement Value	Services-Plastic			\$744.03	40
A	The state of the s	Ret	irement Total:	\$2,623.37	195
		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
	Location Total:	\$36,736.73	978	\$13,041.54	885
		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
	Used in Unitization:	\$36,736.73	978	\$13,041.54	885
	The first	Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
	Unit Estimate Total:	\$36,736.73	978	\$13,041.54	885
	**** Wo	rk Order Retirements *	****		
Business Segment	GL Account				
Asset Location			9		
Utility Account					
Retirement Unit			A -41-1	E.	

	***** Work Order Retireme	ents *****			
Business Segment Asset Location	GL Account	r#			
Utility Account					
Retirement Unit			Activity		
Asset Description		Vintage	Code	Retire Qty	Retirement Amount
Posted Retirements:					
Missouri West	101000::Gas Plant in Service				
0401-043050 JACKSON CTY/KC					
376100-Mains - Steel					
Mains-Steel 4"					
OCR		1970	URET	13	\$72.30
		Utility Accou	nt Total:	13	\$72.30
376200-Mains - Cast Iron			Ed.		
Mains-Cast Iron 4"					
OCR		1922	URET	547	\$67.85
		Utility Accou	nt Total:	547	\$67.85
380100-Services - Steel		ounty Accou		041	
Services-Steel					
OCR		4005	LIDET	40	240.50
OCR		1925	URET	42	\$16.58
OCK		1964	URET _	88	\$116.89
		Utility Accou	nt Total: _	130	\$133.47
380200-Services - Plastic & Copper				Œ.	
Services-Plastic					
OCR		1978	URET	10	\$79.21
OCR		1979	URET	112	\$1,079.77
OCR		1990	URET	8	\$103.61
OCR		2001	URET	1	\$20.58
OCR		2004	URET	40	\$744.03

	***** Work Order Retireme	nts *****		
Business Segment Asset Location Utility Account	GL Account	=		
Retirement Unit		Activity		
Asset Description		Vintage Code	Retire Qty	Retirement Amount
Posted Retirements:		4		
Missouri West	101000::Gas Plant in Service			
0401-043050 JACKSON CTY/KC	5	(6)		
380200-Services - Plastic & Copper				
Services-Plastic				
OCR		2005 URET	24	\$365.12
		Utility Account Total:	195	\$2,392.32
		Location Total:	885	\$2,665.94
		GL Account Total:	885	\$2,665.94
		Posted Retirements:	885	\$2,665.94
		Work Order Total:	885	\$2,665.94

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Header Detail

Work Order: 801284

Work Order Title: Repl 5625F 2-4P Elliot & Hwy K

Wo Type Description: WO-Replacement Mains & Svcs MGE

Work Order Group: **Current Revision: 1**

Funding Project: F0572

Funding Project Desc: Main Replacement - ISRS (SW) Eligible for AFUDC yes

Reason Code: Strategic

Company: Spire Missouri Inc.

Business Segment: Missouri West

Functional Class: Distribution Plant

Department Code: 20921

Department Description: Region 2B - SW Missouri - Distribution - Union

Budget Description: Replace bare steel main - safety re

Est. Annual Revenue:

Reimbursement Type: None

Retirement Type:

WO Description:Install 3481 ft of 2 in PL IP main and 2144 ft of 4 in PL IP main on E Crescent St, Cofield St, Elliot Ave, Tyndall St, Myrtle St,

Oak Ave, Delta St, and High St.

Eligible for CPI: yes

Major Location: 0809-Aurora

Asset Location: 0809-050003 LAWRENCE CTY/AURORA

Status: posted to CPR

Estimated Start Date: Mar 13, 2017

Estimated Completion Date: Jun 30, 2017

Estimated In-Service Date:

Jun 30, 2017

Notes: Abandon 183 Ft of 1 1/4 in PL LP main, 37 Ft of 2 in PL LP main, 55 Ft of 1 1/4 in ST LP main, 5677 Ft of 2 in ST LP main, and 5 Ft of 4 in ST LP main at the above locations. Uprate 1548 ft of 2 in PL LP main on High St and Delta St. Total Service Tie-over = 40; Total Service Replace = 3; Total Service Abandonments = 15; Total Service Upgrade = 9. This main is being replaced as part of FY17 Bare Steel Replacement Program. 3 - #3 Leaks due by July 2017. Note: 41 feet of 1 1/4" Mains

Steel was deleted from the Estimate As-Built since there was nothing PowerPlan could match for retirement. - Mike Griewing

Reason for Work (Justification)

Approvals

Level	Approver	Approval Limit	Date Approved
Operational Accounting	Muehlenkamp, Anne	\$0	3/10/2017
Engineering Review-Dist	§ Hoeferlin, Craig	\$0	3/20/2017
VP Field Operations-MGE	Hampton, Joe	\$1,000,000	3/21/2017

***** Unit Estimate *****								
Utility Account	Additions	Removal Cost	Total Expenditures	Retirement Value	Salvage			
376100-Mains - Steel	\$0.00	\$12,003.36	\$12,003.36	\$0.00	\$0.00			
376300-Mains - Plastic	\$248,727.72	\$399.69	\$249,127.41	\$0.00	\$0.00			
380200-Services - Plastic & Copper	\$3,866.73	\$0.00	\$3,866.73	\$0.00	\$0.00			
Total Estimated Costs:	\$252,594.45	\$12,403.05	\$264,997.50	\$0.00	\$0.00			

sset Location		Unit Estimate *****				
Utility Account		Ves				
Retirement Unit		20 No. 10 No.	5 6 1 1		W -919 I	
Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs
0809-050003 LAWRENCE CTY/AUR						
376300-Mains - Plastic						
Mains-Plastic 2"						
Contract Payroll	\$1,511.07	\$32.41	0	0	0	0
Contractor Work	\$86,822.81	\$212.02	0	0	0	0
Department Clearings	\$1,307.08	\$28.03	0	0	0	0
Mechanical Equipment	\$301.50	\$6.70	0	0	0	0
Overheads Capitalized - Benefits	\$844.69	\$18.12	0	0	0	0
Overheads Capitalized - General	\$39,068.94	\$95.76	0	0	0	0
Payroll Taxes	\$229.68	\$4.93	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	220	0	0
Stores	\$4,575.06	\$1.72	3481	0	0	0
Mains-Plastic 4"						
Contract Payroll	\$907.48	\$0.00	0	0	0	0
Contractor Work	\$72,225.85	\$0.00	0	0	0	0
Department Clearings	\$784.97	\$0.00	0	0	0	0
Mechanical Equipment	\$187.60	\$0.00	0	0	0	0
Overheads Capitalized - Benefits	\$507.28	\$0.00	0	0	0	0
Overheads Capitalized - General	\$33,363.51	\$0.00	0	0	0	0
Payroll Taxes	\$137.94	\$0.00	0	0	0	0
Stores	\$5,952.26	\$0.00	2144	0	0	0
SubTotal Utility Accoun	nt: \$248,727.72	\$399.69	5,625.00	220.00	0.00	0.00
376100-Mains - Steel		•				
Mains-Steel 2"						
Contract Payroll	\$0.00	\$550.97	0	0	0	0
Contractor Work	\$0.00	\$3,869.92	. 0	0	0	0
Department Clearings	\$0.00	\$476.59	0	0	0	0
Mechanical Equipment	\$0.00	\$113.90	0	0	0	0
Overheads Capitalized - Benefits	\$0.00	\$307.99	0	0	0	0
Overheads Capitalized - General	\$0.00	\$1,895.00	0	0	0	0
Payroll Taxes	\$0.00	\$83.75	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	5732	0	0
Stores	\$0.00	\$392.04	0	0	0	0
Mains-Steel 4"						
Contract Payroll	\$0.00	\$32.41	0	0	0	0
Contractor Work	\$0.00	\$2,341.74	0	0	0	0
Department Clearings	\$0.00	\$28.03	0	0	0	0
Mechanical Equipment	\$0.00	\$6.70	0	0	0	0
Overheads Capitalized - Benefits	\$0.00	\$18.12		0		0

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	****	Unit Estimate *****				
sset Location Utility Account Retirement Unit Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs
0809-050003 LAWRENCE CTY/AUR						•
376100-Mains - Steel						
Mains-Steel 4"						
Overheads Capitalized - General	\$0.00	\$1,262.95	0	0	0	0
Payroll Taxes	\$0.00	\$4.93	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	5	0	0
Stores	\$0.00	\$618.32	0	0	0	0
SubTotal Utility Account:	\$0.00	\$12,003.36	0.00	5,737.00	0.00	0.00
380200-Services - Plastic & Copper						
Services-Plastic						
Contract Payroll	\$78.09	\$0.00	0	0	0	0
Contractor Work	\$2,568.82	\$0.00	0	0	0	0
Department Clearings	\$67.55	\$0.00	0	0	0	0
Overheads Capitalized - Benefits	\$43.65	\$0.00	0	0	0	0
Overheads Capitalized - General	\$1,096.75	\$0.00	0	0	0	0
Payroll Taxes	\$11.87	\$0.00	0	0	0	0
SubTotal Utility Account:	\$3,866.73	\$0.00	0.00	0.00	0.00	0.00
SubTotal Location:	\$252,594.45	\$12,403.05	5,625.00	5,957.00	0.00	0.00
Total Unit Estimate:	\$252,594.45	\$12,403.05	5,625	5,957	0	0

****** Class Codes *****						
Class Code	Value					
cap_expense	capital					
CWIP Property Tax Type	MO-CWIP-Distribution Real					
ISRS Reason	03 - Bare Steel Replacement					
isrs_recov	yes					
ohbenefits	yes					
ohgen_supv	yes					
prod_nonprod	prod					
Project Classification	both					

Asset Location		-Built *****		
Asset Location Utility Account				
Exp Type				
Est Charge Type	Retirement Unit	Job task	Dollars	Quantity
	la l			
ed in Unitization:				
809-050003 LAWRENCE CTY/AUROR/	4			
376100-Mains - Steel				
Retirement				
Contract Payroll	Mains-Steel 2"		\$5,283.84	(
Contract Payroll	Mains-Steel 4"		\$2,936.65	(
Contractor Work	Mains-Steel 4"		\$5,933.28	(
Contractor Work	Mains-Steel Under 2"		\$5,933.28	. (
Contractor Work	Mains-Steel 2"		\$5,933.28	(
Department Clearings	Mains-Steel 2"		\$4,570.52	(
Department Clearings	Mains-Steel 4"		\$2,540.20	(
Overheads Capitalized - Benefits	Mains-Steel 4"		\$1,641.59	(
Overheads Capitalized - Benefits	Mains-Steel 2"		\$2,953.67	
Overheads Capitalized - General	Mains-Steel Under 2"		\$2,521.64	
Overheads Capitalized - General	Mains-Steel 2"		\$3,037.25	(
Overheads Capitalized - General	Mains-Steel 4"		\$3,006.90	,
Payroll Taxes	Mains-Steel 2"		\$803.14	
Payroll Taxes	Mains-Steel 4"		\$446.37	
Retirement Value	Mains-Steel 2"		\$226.68	328
Retirement Value	Mains-Steel 2"		\$171.37	214
Retirement Value	Mains-Steel 2"		\$38.74	52
Retirement Value	Mains-Steel 2"		\$224.07	83
Retirement Value	Mains-Steel 2"		\$176.97	355
Retirement Value	Mains-Steel 2"		\$78.28	70
Retirement Value	Mains-Steel 2"		\$604.12	435
Retirement Value	Mains-Steel 2"		\$374.37	348
Retirement Value	Mains-Steel 2"		\$257.09	84
	Mains-Steel 2"		\$3,601.14	140
Retirement Value Retirement Value	Mains-Steel 2"		\$1,078.41	1,428
10.000			80000000000	1,420
Retirement Value	Mains-Steel 2"		\$193.89	
Retirement Value	Mains-Steel 4"		\$15.21	44
Retirement Value	Mains-Steel 2"		\$64.13	48
Retirement Value	Mains-Steel 2"		\$527.77	339
Retirement Value	Mains-Steel 2"		\$497.91	1,775
Stores	Mains-Steel 4"		\$699.55	C
Stores	Mains-Steel 2"	2000 ADD 10 17500 AF NO	\$417.50	C
s 		Retirement Total:	\$56,788.81	5,772
376300-Mains - Plastic				
Addition	7.4			100
Contract Payroll	Mains-Plastic 4"	\$5. 20	\$37,075.05	(
Contract Payroll	Mains-Plastic 2"		\$31,872.80	C
Contractor Work	Mains-Plastic 4"		\$22,776.66	C
Contractor Work	Mains-Plastic 2"		\$22,776.66	C
Department Clearings	Mains-Plastic 4"		\$32,069.92	(
Department Clearings	Mains-Plastic 2"		\$27,569.97	(
Overheads Capitalized - Benefits	Mains-Plastic 4"		\$20,724.95	(
Overheads Capitalized - Benefits	Mains-Plastic 2"		\$17,816.90	C
Overheads Capitalized - General	Mains-Plastic 2"		\$14,849.86	C

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	As	-Built *****			
set Location					
tility Account					
Exp Type	Dadinana ad Haif	I.b. z.		Dellere	0
Est Charge Type	Retirement Unit	Job ta	ISK	Dollars	Quantit
d in Unitization:					
09-050003 LAWRENCE CTY/AURORA					
76300-Mains - Plastic					
Addition Overheads Capitalized Caparal	Mains-Plastic 4"			\$15,878.37	
Overheads Capitalized - General	Mains-Plastic 2"			\$4,844.67	
Payroll Taxes	Mains-Plastic 4"			1.70 = 1500 IEVA PO 150 VV	
Payroll Taxes	Mains-Plastic 4"			\$5,635.41	
Stores				\$9,001.14	2,15
Stores	Mains-Plastic 2"		THE STATE OF THE S	\$7,364.51	3,64
		Addition	Total:	\$270,256.87	5,79
Retirement	Material Business			****	2
Contract Payroll	Mains-Plastic 2"			\$884.16	
Contractor Work	Mains-Plastic 2"			\$5,933.28	
Contractor Work	Mains-Plastic Under 2"			\$5,933.28	
Department Clearings	Mains-Plastic 2"			\$764.80	
Overheads Capitalized - Benefits	Mains-Plastic 2"			\$494.25	
Overheads Capitalized - General	Mains-Plastic Under 2"			\$2,521.64	
Overheads Capitalized - General	Mains-Plastic 2"			\$2,579.05	
Payroll Taxes	Mains-Plastic 2"			\$134.39	
Retirement Value	Mains-Plastic Under 2"			\$3,318.60	20
Retirement Value	Mains-Plastic 2"			\$240.75	4
Retirement Value	Mains-Plastic 2"			\$116.26	2
Stores	Mains-Plastic 2"			\$1.94	
		Retirement	Total:	\$22,922.40	27
30100-Services - Steel					
Retirement					
Contract Payroll	Services-Steel			\$62.18	0
Department Clearings	Services-Steel			\$53.79	
Overheads Capitalized - Benefits	Services-Steel			\$34.76	9
Overheads Capitalized - General	Services-Steel			\$3.98	39
Payroll Taxes	Services-Steel			\$9.45	
Retirement Value	Services-Steel			\$8.28	1
Retirement Value	Services-Steel			\$4.14	
Retirement Value	Services-Steel			\$8.28	1
Retirement Value	Services-Steel			\$22.08	3
Retirement Value	Services-Steel			\$2.07	
		Retirement	Total:	\$209.01	6
30200-Services - Plastic & Copper			10 2	<u> </u>	γ
Addition					
Contract Payroll	Services-Plastic			\$1,322.40	1 3
Contractor Work	Services-Plastic			\$8,636.92	
Department Clearings	Services-Plastic			\$1,143.88	n e
Overheads Capitalized - Benefits	Services-Plastic			\$739.22	
Overheads Capitalized - General	Services-Plastic			\$3,892.22	
Payroll Taxes	Services-Plastic			\$201.00	
	23111000 1 100110			Q201.00	
Stores	Services-Plastic			\$322.10	37

		**** As-Built ****		•	
Asset Location Utility Account Exp Type	5.0			D.H.	
Est Charge Type	Retirement Unit		Job task	Dollars	Quantity
Jsed in Unitization:					
0809-050003 LAWRENCE CTY/AUROF	RA				
380200-Services - Plastic & Copper Retirement					
Contract Payroll	Services-Plastic			\$93.26	0
Department Clearings	Services-Plastic			\$80.67	0
Overheads Capitalized - Benefits	Services-Plastic			\$52.13	0
Overheads Capitalized - General	Services-Plastic			\$5.97	0
Payroll Taxes	Services-Plastic	¥		\$14.18	0
Retirement Value	Services-Plastic			\$196.50	31
Retirement Value	Services-Plastic			\$30.78	4
Retirement Value	Services-Plastic			\$5.79	1
Retirement Value	Services-Plastic			\$24.09	4
Retirement Value	Services-Plastic			\$460.80	89
Retirement Value	Services-Plastic			\$5,492.46	471
Retirement Value	Services-Plastic			\$680.19	14
Retirement Value	Services-Plastic			\$214.19	20
Retirement Value	Services-Plastic			\$101.00	3
Retirement Value	Services-Plastic			\$12.49	1
Retirement Value	Services-Plastic			\$4.70	1
Retirement Value	Services-Plastic			\$146.45	16
Retirement Value	Services-Plastic			\$1,128.29	129
Retirement Value	Services-Plastic			\$672.67	79
Retirement Value	Services-Plastic			\$2.88	8
Retilement value	Services-Flastic	95.0			
(tirement Total:	\$9,419.49	871
	V .0 120 / 0 .1	Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
	Location Total:	\$286,514.61	6,161	\$89,339.71	6,983
		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
Use	ed in Unitization:	\$286,514.61	6,161	\$89,339.71	6,983
· · · · · · · · · · · · · · · · · · ·		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
Uni	t Estimate Total:	\$286,514.61	6,161	\$89,339.71	6,983

***** Work Order Retirements *****						
Business Segment	GL Account					
Asset Location						
Utility Account						
Retirement Unit			ctivity			
Asset Description		Vintage (Code	Retire Qty	Retirement Amoun	
Posted Retirements:						
Missouri West	101000::Gas Plant in Service					
0809-050003 LAWRENCE CTY/AURORA						
376100-Mains - Steel						
Mains-Steel 2"						
OCR		1939 L	JRET	1,775	\$497.91	

355

		1041	OILLI	000	\$170.57
	***** Work Order Retireme	nts *****			
usiness Segment Asset Location Utility Account	GL Account				
Retirement Unit		vidense	Activity &BEE	Retire &	Retirement \$2200
	*				
				9	
OCR		1950	URET	1,428	\$1,078.41
OCR		1052	URET	348	\$374.37
OCK		1955	UKEI	, 340	\$374.37
OCR		1955	URET	52	\$38.74
OCR		1056	URET	214	\$171.37
OCK		1930	ÜKET	214	\$171.57
ū.					
OCR		1960	URET	70	\$78.28
					7
					e
OCR		1962	URET	48	\$64.13
OCR		1968	URET	339	\$527.77
OCR		1971	URET	435	\$604.12
			į.		

	01.4	****			
usiness Segment Asset Location Utility∕Account Retirement Unit	GL Account		URET Activity	84	\$257.09
Asset Description		Vintage	Code	Retire Qty	Retirement Amount
2					70.
	- X				
000		1070	URET	29	\$193.89
OCR		1979	UKET	29	\$190.09
	ā				
OCR		1994	URET	140	\$3,601.14
Mains-Steel 4"		1004	OKET	140	Ç0,001.14
-					
OCR		1939	URET	44	\$15.21
		Utility Accou	ınt Total:	5,772	\$8,130.15
376300-Mains - Plastic Mains-Plastic 2"	*		_		
OCR		1981	URET	46	\$240.75
OCR Mains-Plastic Under 2"		1995	URET	25	\$116.26
1 1/4 inch Plastic Pipe: NEW	230809: TransType=B 1/1/2018 00:00:00	1994	URET	204	\$3,318.60
	1 interesting the management of the control of the	Utility Accou	_	275	\$3,675.61
380100-Services - Steel Services-Steel					
OCR		1960	URET	6	\$4.14
0011		.000	*******	3	¥
	e v				
OCR		1960	URET	12	\$8.28

	***** Work Order Retire	5 6			
Asset Location					
Utility Account Rethgenent Unit		1960	Adaptity	32	\$22.08
Asset Description	m m m m m m m m m m m m m m m m m m m	Vintage	Code	Retire Qty	Retirement Amount
OCR		1960	URET	3	\$2.07
		Utility Accou	-	65	\$44.85
380200-Services - Plastic & Copper			_		# Arrests
Services-Plastic					
OCR		1074	URET	8	\$2.88
CON		1974	OKET	.0	\$2.00
				9	
OCR		1022	URET	. 31	\$196.50
331		1905	OILL	. 01	\$190.30
OCR		1006	URET	1	\$4.70
CON		1900	ONLI	Ļ	\$4.70
OCR		1987	URET	4	\$24.09
		1307	OILL	-	\$24.03
OCR		1099	URET	16	\$146.45
To the state of th		1900	ONLI	10	\$140.45
OCR		1989	URET	89	\$460.80
		1909	OILL	09	\$400.80
OCR		1003	URET	79	\$672.67
33.1		1993	OILLI	19	\$012.01

\$214.19

Work Order Authorization Information URET

***** Work	Order Retirements *****	***** Work Order Retirements *****						
Business Segment GL Account	a l'al			# 12 (23 Y				
Asset Location Utility Account RefileMent Unit	1995	AURIETY	1	\$12.49				
Asset Description	Vintage	Code	Retire Qty	Retirement Amoun				
OCR	1996	URET	471	\$5,492.46				
OCR	1998	URET	4	\$30.78				
OCR T	2000	URET	129	\$1,128.2				
OCR	2015	URET	1	\$5.7				
OCR	2016	URET	3	\$101.0				
	s							
OCR	2017	URET	14	\$680.1				
2	Utility Accou	nt Total:	871	\$9,173.2				
		on Total:	6,983	\$21,023.89				
	GL Accou	nt Total:	6,983	\$21,023.89				
	Posted Retir	ements:	6,983	\$21,023.89				

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\$21,023.89

6,983

Work Order Total:

Header Detail

Work Order: 802431

Work Order Title: Repl 968F 2P 33rd-34th Joplin Ave

Wo Type Description: WO-Replacement Mains & Svcs MGE

Work Order Group:

Current Revision: 1

Funding Project: F0572

Funding Project Desc: Main Replacement - ISRS (SW)

Eligible for AFUDC yes

Eligible for CPI: yes

Retirement Type:

WO Description:Install 968 Ft of 2in PL MP main on S Joplin Ave between W 33rd St and W 34th St.

Major Location: 0501-Joplin

Reason Code: Strategic

Asset Location: 0501-044001 JASPER CTY/JOPLIN

Estimated Start Date: Jan 07, 2019

Estimated Completion Date: Jan 28, 2019

Estimated In-Service Date:

Department Description: Region 2B - SW Missouri - Distribution - Union

Budget Description: Replace bare steel main - safety re

Status: in service

Company: Spire Missouri Inc.

Business Segment: Missouri West

Department Code: 20921

Est. Annual Revenue:

Reimbursement Type: None

Functional Class: Distribution Plant

Jan 28, 2019

Notes: Abandon 840 Ft of 2in ST MP mainon S Joplin Ave between W 33rd St and W 34th St. Total Service Tie-overs= 21; Total ServiceReplacements= 0; Total Service Abandons=0. Replace bare steel and isolated steel due toleaks. ISRS recoverable due to replacing bare steelmain. Due to leaks: 3305 S Joplin leak id 5044027. 3316 S Joplin leak id 5027183. 3324 S Joplin

leak id 478550. 3328 S Joplin leak id 5100423. 3329 S Joplin leak id 5098731.

Reason for Work (Justification)

Approvals

Level Approver			Approval Limit	Date Approved
Operational Accounting	Muehlenkamp, Anne	¥	\$0	3/15/2019
Engineering Review-Dist	§ Hoeferlin, Craig	- = 5 = x == = =	\$0	3/26/2019
VP Field Operations-MGE	Goodson, Timothy	equin a	\$1,000,000	3/27/2019

***** Unit Estimate *****								
Utility Account	Additions	Removal Cost	Total Expenditures	Retirement Value	Salvage			
376100-Mains - Steel	\$0.00	\$771.56	\$771.56	\$0.00	\$0.00			
376300-Mains - Plastic	\$47,025.86	\$2,760.70	\$49,786.56	\$0.00	\$0.00			
Total Estimated Costs:	\$47,025.86	\$3,532.26	\$50,558.12	\$0.00	\$0.0			

set Location						
Utility Account						
Retirement Unit						
Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs
0501-044001 JASPER CTY/JOPLIN						
376300-Mains - Plastic						gaing for
Mains-Plastic 2"						
Contract Payroll	\$1,216.18	\$0.00	0	0	0	0
Contractor Work	\$24,279.22	\$1,714.72	0	0	0	0
Department Clearings	\$1,787.78	\$0.00	0	0	0	0
Overheads Capitalized - Benefits	\$1,070.24	\$0.00	0	0	0	0
Overheads Capitalized - General	\$16,273.82	\$1,045.98	0	0	0	0
Payroll Taxes	\$184.86	\$0.00	0	0	0	0
Stores	\$2,213.76	\$0.00	968	0	0	0
SubTotal Utility Account:	\$47,025.86	\$2,760.70	968.00	0.00	0.00	0.00
376100-Mains - Steel						
Mains-Steel 2"						
Contract Payroll	\$0.00	\$214.62	0	0	0	0
Department Clearings	\$0.00	\$315.49	0	0	0	0
Overheads Capitalized - Benefits	\$0.00	\$188.87	0	0	0	0
Overheads Capitalized - General	\$0.00	\$19.96	0	0	0	0
Payroll Taxes	\$0.00	\$32.62	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	840	0	0
SubTotal Utility Account:	\$0.00	\$771.56	0.00	840.00	0.00	0.00
SubTotal Location:	\$47,025.86	\$3,532.26	968.00	840.00	0.00	0.00
Total Unit Estimate:	\$47,025.86	\$3,532.26	968	840	0	0

***** Class Codes *****							
Class Code		Value	= 2 1				
cap_expense		capital					
ISRS Reason		08 - Cast Iron or Bare Steel Replacement - Lea					
isrs_recov		yes					
ohbenefits		yes					
ohgen_supv		yes					
prod_nonprod		prod					
Project Classification		both					

Asset Location			560	
Utility Account				
Ехр Туре				
Est Charge Type	Retirement Unit	Job task	Dollars	Quantit
ailable for Unitization: 501-044001 JASPER CTY/JOPLIN				
376100-Mains - Steel				
Retirement				
Contract Payroll	Mains-Steel 2"		\$1,073.10	
Contractor Work	Mains-Steel 2"		\$2,200.20	
Department Clearings	Mains-Steel 2"		\$1,577.46	
Overheads Capitalized - Benefits	Mains-Steel 2"		\$944.33	
Overheads Capitalized - General	Mains-Steel 2"		\$1,441.92	
Payroll Taxes	Mains-Steel 2"		\$163.11	
Retirement Value	Mains-Steel 2"		\$38.91	5
Retirement Value	Mains-Steel 2"		\$57.03	6
Retirement Value	Mains-Steel 2"		\$120.29	28
Retirement Value	Mains-Steel 2"		\$159.08	27
Retirement Value	Mains-Steel 2"		\$5.84	1
Retirement Value	Mains-Steel 2"		\$474.43	17
1000	mano otogra	Retirement Total:	\$8,255.70	87
376300-Mains - Plastic		Notifolione Total	V 0,200.70	01.
Addition				
Contract Payroll	Mains-Plastic Under 2"		\$178.85	9
Contract Payroll	Mains-Plastic 2"		\$1,073.10	
Contractor Work	Mains-Plastic Under 2"		\$386.00	
Contractor Work	Mains-Plastic 2"	- 11	\$44,737.88	9
Department Clearings	Mains-Plastic 2"		\$1,577.46	3
Department Clearings	Mains-Plastic Under 2"		\$262.91	
Overheads Capitalized - Benefits	Mains-Plastic 2"		\$944.33	
Overheads Capitalized - Benefits	Mains-Plastic Under 2"		\$157.39	4
Overheads Capitalized - General	Mains-Plastic 2"		\$28,806.53	
Overheads Capitalized - General	Mains-Plastic Under 2"		\$257.55	
Payroll Taxes	Mains-Plastic Under 2"		\$27.19	
Payroll Taxes	Mains-Plastic 2"		\$163.11	
Stores	Mains-Plastic 2"		\$2,322.34	1,00
Stores	Mains-Plastic Under 2"		\$8.95	-0
		Addition Total:	\$80,903.59	1,01
Retirement				-
Contract Payroll	Mains-Plastic 2"		\$35.77	
Contractor Work	Mains-Plastic 2"		\$34.74	(
Department Clearings	Mains-Plastic 2"		\$52.58	4.0
Overheads Capitalized - Benefits	Mains-Plastic 2"		\$31.48	
Overheads Capitalized - General	Mains-Plastic 2"		\$24.52	
Payroll Taxes	Mains-Plastic 2"		\$5.44)
Retirement Value	Mains-Plastic 2"		\$12.77	
-	÷	Retirement Total:	\$197.30	;
380200-Services - Plastic & Copper				
Addition Contract Payroll	Canilaga Disatis		6004.05	
Contract Payroll	Services-Plastic		\$894.25	(
Contractor Work	Services-Plastic		\$3,324.80	(

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		***** As-Built *****		E.	
Asset Location					w rom th
Utility Account					
Ехр Туре					1 - 1 - 1 - 1 - 1 - 1 - 1
Est Charge Type	Retirement Unit		Job task	Dollars	Quantity
vailable for Unitization:					
0501-044001 JASPER CTY/JOPLIN					
380200-Services - Plastic & Copper					
Addition				4)	100
Overheads Capitalized - Benefits	Services-Plastic			\$786.94	0
Overheads Capitalized - General	Services-Plastic			\$2,242.08	0
Payroll Taxes	Services-Plastic			\$135.93	0
Stores	Services-Plastic			\$214.41	131
		Ad	dition Total:	\$8,912.96	131
Retirement					
Contractor Work	Services-Plastic			\$354.97	0
Overheads Capitalized - General	Services-Plastic			\$216.53	0
Retirement Value	Services-Plastic			\$887.87	101
Retirement Value	Services-Plastic			\$144.51	14
Retirement Value	Services-Plastic			\$257.07	16
Retirement Value	Services-Plastic			\$117.41	18
Retirement Value	Services-Plastic	8		\$28.92	2
		Retir	ement Total:	\$2,007.28	151
		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
12	Location Total:	\$89,816.55	1,141	\$10,460.28	1,026
		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
Available	for Unitization:	\$89,816.55	1,141	\$10,460.28	1,026
	П	Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
Unit	Estimate Total:	\$89,816.55	1,141	\$10,460.28	1,026

	***** Work Order Retiremen	ts *****			
Business Segment Asset Location Utility Account	GL Account				= ken = 1 = =
Retirement Unit Asset Description		Vintage	Activity Code	Retire Qty	Retirement Amount
Selected Retirements:				-	
Missouri West 0501-044001 JASPER CTY/JOPL	101000::Gas Plant in Service				
376100-Mains - Steel					
Mains-Steel 2"					
OCR		1941	URET	286	\$120.29
OCR		1946	URET	271	\$159.08
OCR		1948	URET	51	\$38.91
OCR		1950	URET	69	\$57.03
OCR		1964	URET	176	\$474.43

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	***** Work Order Retirem	ents *****			
Business Segment Asset Location Utility Account	GL Account	5			
Retirement Unit			Activity		
Asset Description		Vintage		Retire Qty	Retirement Amount
Selected Retirements:		SVATE.			
Missouri West	101000::Gas Plant in Service				
0501-044001 JASPER CTY/JOPLIN					
376100-Mains - Steel					
Mains-Steel 2"					
OCR		1965	URET	19	\$5.84
*		Utility Accou	ınt Total:	872	\$855.58
376300-Mains - Plastic			\$ 		
Mains-Plastic 2"					
OCR		1978	URET	3	\$12.77
		Utility Accou	ınt Total:	3	\$12.77
380200-Services - Plastic & Copper					
Services-Plastic					
OCR		1987	URET	14	\$144.51
OCR		1988	URET	18	\$117.41
OCR		1989	URET	16	\$257.07
OCR		1990	URET	2	\$28.92
OCR		1994	URET _	101	\$887.87
		Utility Accou	ınt Total:	151	\$1,435.78
		Location	on Total:	1,026	\$2,304.13
		GL Accou	ınt Total:	1,026	\$2,304.13
		Selected Retir	rements:	1,026	\$2,304.13
		Work Ord	er Total:	1,026	\$2,304.13

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Header Detail

Work Order: 802276

Work Order Title: Repl 139F 2P 20th & Jackson

Wo Type Description: WO-Replacement Mains & Svcs MGE

Work Order Group:

Current Revision: 1

Funding Project: F0599

Eligible for AFUDC yes

Reason Code: System Integrity

Funding Project Desc: Main Replacement - ISRS (N)

Eligible for CPI: yes

Reimbursement Type: None Retirement Type:

WO Description:Install ~139 Ft of 2 in PL LP Main. Abandon ~ 139 Ft of of 2 in ST LP Main. Total Service Tie-over = 2. Main is being replaced

due to leak. This is not a reimbursable project.

Major Location: 0401-KC/MO - Central

Asset Location: 0401-043050 JACKSON CTY/KC

Estimated Start Date: Sep 24, 2018

Estimated Completion Date: Sep 28, 2018

Estimated In-Service Date:

Company: Spire Missouri Inc.

Department Description: Construction & Maintenance - Region 2A - Unio

Budget Description: Replace cast iron main - CPI / prio

Status: posted to CPR

Business Segment: Missouri West

Department Code: 20648

Est. Annual Revenue:

Functional Class: Distribution Plant

Sep 28, 2018

Notes:

Reason for Work (Justification)

Approvals

Level	Approver	Approval Limit	Date Approved	
Operational Accounting	Muehlenkamp, Anne	\$0	9/17/2018	
Engineering Review-Dist	§ Hoeferlin, Craig	\$0	9/18/2018	
VP Field Operations-MGE	Hampton, Joe	\$1,000,000	9/19/2018	

***** Unit Estimate *****								
Utility Account	Additions	Removal Cost	Total Expenditures	Retirement Value	Salvage			
376100-Mains - Steel	\$344.26	\$3,666.17	\$4,010.43	\$0.00	\$0.00			
376300-Mains - Plastic	\$18,352.65	\$0.00	\$18,352.65	\$0.00	\$0.00			
Total Estimated Costs:	\$18,696.91	\$3,666.17	\$22,363.08	\$0.00	\$0.00			

	****	Unit Estimate *****				
Asset Location Utility Account Retirement Unit Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Potivo Ot	Add Use	Deline U
en deer	Addition Donars	Retirement Donars	Add Qty	Retire Qty	Add Hrs	Retire Hrs
0401-043050 JACKSON CTY/KC						
376300-Mains - Plastic						
Mains-Plastic 2"	F -3119	22.722				
Contract Payroll	\$6,534.67	\$0.00	0	0	0	0
Department Clearings	\$5,652.49	\$0.00	0	0	0	0
Overheads Capitalized - Benefits	\$3,652.88	\$0.00	. 0	0	0	0
Overheads Capitalized - General	\$746.62	\$0.00	0	0	0	0
Payroll Taxes	\$993.27	\$0.00	0	0	0	0
Stores	\$772.72	\$0.00	139	0	0	0
SubTotal Utility Account:	\$18,352.65	\$0.00	139.00	0.00	0.00	0.00
376100-Mains - Steel						
Mains-Steel 2"						
Contract Payroll	\$130.40	\$1,388.70	0	0	0	0
Department Clearings	\$112.80	\$1,201.23	0	0	0	0
Overheads Capitalized - Benefits	\$72.89	\$776.28	0	0	0	0
Overheads Capitalized - General	\$8.35	\$88.88	0	0	0	0
Payroll Taxes	\$19.82	\$211.08	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	139	0	0
SubTotal Utility Account:	\$344.26	\$3,666.17	0.00	139.00	0.00	0.00
SubTotal Location:	\$18,696.91	\$3,666.17	139.00	139.00	0.00	0.00
Total Unit Estimate:	\$18,696.91	\$3,666.17	139	139	0	0

	***** Class Codes *****	
Class Code	Value	a 27
cap_expense	capital	1 1 1 1 1 1 1 1
ISRS Reason	03 - Bare Steel Replacement	
isrs_recov	yes	
ohbenefits	yes	
ohgen_supv	yes	
prod_nonprod	prod	
Project Classification	both	

Department Clearings			**** As-Built *****			
Exp Type	Asset Location		-4			
Used in Unitization: O401-043050 JACKSON CTY/KC 376100-Mains - Steel	Control of the state of the sta					
Used in Unitization: O401-043050 JACKSON CTY/KC 376100-Mains - Steel			a a	121 2 120 12		
Odd1-043050 JACKSON CTY/KC 376100-Mains - Steel Retirement Contract Payroll Mains-Steel 2" \$1,847.11 \$1,000 Contract Payroll Mains-Steel 2" \$1,625.46 \$1,000 Contract Payroll Mains-Steel 2" \$1,625.46 \$1,000 Contract Payroll Mains-Steel 2" \$1,625.46 \$1,000 Contract Payroll Mains-Steel 2" \$1,650.46 \$1,550.99 12 \$1,	Est Charge Type	Retirement Unit		Job task	Dollars	Quantity
Odd1-043050 JACKSON CTY/KC 376100-Mains - Steel Retirement Contract Payroll Mains-Steel 2" \$1,847.11 \$1,000 Contract Payroll Mains-Steel 2" \$2,715.25 \$1,000 Contract Payroll Mains-Steel 2" \$1,625.46 \$1,000 Contract Payroll Mains-Steel 2" \$1,625.46 \$1,000 Contract Payroll Mains-Steel 2" \$2,715.25 Contract Payroll Mains-Steel 2" \$2,000 Contract Payroll Mains-Plastic 2" \$1,580.99 12 Contract Payroll Mains-Plastic 2" \$1,580.99 12 Contract Payroll Mains-Plastic 2" \$1,430.80 Contract Payroll Mains-Plastic 2" \$1,580.99 Retirement Clearings Mains-Plastic 2" \$1,590.99 Retirement Clearings \$1,590.99						
Retirement Contract Payroll Mains-Steel 2" \$1,847.11 10 10 10 10 10 10 10	Used in Unitization:	€				
Retirement Contract Payroll Mains-Steel 2" \$1,847.11 1.0	0401-043050 JACKSON CTY/KC					
Contract Payroll Mains-Steel 2" \$1,847.11	376100-Mains - Steel			*		
Department Clearings						
Overheads Capitalized - Benefits	Contract Payroll	Mains-Steel 2"			4254-25-00-00-00-00-00-00-00-00-00-00-00-00-00	0
String	Department Clearings	Mains-Steel 2"			\$2,715.25	0
Payroll Taxes Mains-Steel 2" \$1,580.99 12 Retirement Value Mains-Steel 2" \$1,580.99 12 Retirement Value Retirement Total: \$8,221.35 12 376300-Mains - Plastic \$6,795.36 6 Addition \$6,795.36 6 Contract Payroll Mains-Plastic 2" \$143.08 6 Contract Payroll Mains-Plastic 2" \$143.08 6 Department Clearings Mains-Plastic 2" \$210.33 6 Department Clearings Mains-Plastic 2" \$9,989.18 6 Overheads Capitalized - Benefits Mains-Plastic 2" \$9,989.18 6 Overheads Capitalized - Benefits Mains-Plastic 2" \$125.91 6 Overheads Capitalized - General Mains-Plastic 2" \$13.31 6 Overheads Capitalized - General Mains-Plastic 2" \$1,080.17 6 Payroll Taxes Mains-Plastic 2" \$1,080.17 6 Payroll Taxes Mains-Plastic 2" \$1,032.89 6 Payroll Taxes \$1,032.89 6 Payroll	Overheads Capitalized - Benefits	Mains-Steel 2"			\$1,625.46	0
Retirement Value Mains-Steel 2" S1,580,99 12: Retirement Total: \$8,221.35 12: 376300-Mains - Plastic Addition	Overheads Capitalized - General	Mains-Steel 2"			\$171.78	0
Retirement Total: \$8,221.35 128 376300-Mains - Plastic	Payroll Taxes	Mains-Steel 2"			\$280.76	0
Addition Contract Payroll Mains-Plastic 2" \$6,795.36 Contract Payroll Mains-Plastic 2" \$143.08 Contract Payroll Mains-Plastic 2" \$143.08 Contract Payroll Mains-Plastic 2" \$210.33 Contract Payroll Separation	Retirement Value	Mains-Steel 2"			\$1,580.99	125
Addition Contract Payroll Mains-Plastic 2" \$6,795.36 Contract Payroll Mains-Plastic 2" \$143.08 Department Clearings Mains-Plastic 2" \$210.33 Department Clearings Mains-Plastic 2" \$9,989.18 Overheads Capitalized - Benefits Mains-Plastic 2" \$5,979.92 Overheads Capitalized - Benefits Mains-Plastic 2" \$125.91 Overheads Capitalized - General Mains-Plastic 2" \$13.31 Overheads Capitalized - General Mains-Plastic 2" \$13.31 Overheads Capitalized - General Mains-Plastic 2" \$1,080.17 Payroll Taxes Mains-Plastic 2" \$1,032.89 Payroll Taxes Mains-Plastic 2" \$21.75 Stores Mains-Plastic 2" \$21.75 Stores Mains-Plastic 2" \$21.75 Addition Total: \$26,126.65 117 S8,221.35 122 Addition Dollars Add Qty Retirement Dollars Retire Qt	*	5	Re	etirement Total:	\$8,221.35	125
Contract Payroll Mains-Plastic 2" \$6,795.36 Contract Payroll Mains-Plastic 2" \$143.08 Department Clearings Mains-Plastic 2" \$210.33 Department Clearings Mains-Plastic 2" \$9,989.18 Overheads Capitalized - Benefits Mains-Plastic 2" \$5,979.92 Overheads Capitalized - Benefits Mains-Plastic 2" \$125.91 Overheads Capitalized - General Mains-Plastic 2" \$1,080.17 Payroll Taxes Mains-Plastic 2" \$1,080.17 Payroll Taxes Mains-Plastic 2" \$21.75 Stores Mains-Plastic 2" \$21.75 Addition Total: \$26,126.65 117 \$8,221.35 Retire Qt Addition Dollars Add Qty Retirement Dollars Retire Qt Addition Dollars Add Qty Retirement Dollars Retire Qt	376300-Mains - Plastic				* 8	
Contract Payroll Mains-Plastic 2" \$143.08	Addition					
Department Clearings	Contract Payroll	Mains-Plastic 2"			\$6,795.36	0
Department Clearings	Contract Payroll	Mains-Plastic 2"			\$143.08	0
Overheads Capitalized - Benefits Mains-Plastic 2" \$1,25,91 Overheads Capitalized - Benefits Mains-Plastic 2" \$13,31 Overheads Capitalized - General Mains-Plastic 2" \$13,31 Overheads Capitalized - General Mains-Plastic 2" \$1,080.17 Payroll Taxes Mains-Plastic 2" \$1,032.89 Payroll Taxes Mains-Plastic 2" \$21.75 Stores Mains-Plastic 2" \$734.75 11 Addition Total: \$26,126.65 11 Addition Total: \$26,126.65 11 Location Total: \$26,126.65 117 \$8,221.35 12 Used in Unitization: \$26,126.65 117 \$8,221.35 12	Department Clearings	Mains-Plastic 2"			\$210.33	0
Overheads Capitalized - Benefits Mains-Plastic 2" \$125.91 Overheads Capitalized - General Mains-Plastic 2" \$13.31 Overheads Capitalized - General Mains-Plastic 2" \$1,080.17 Payroll Taxes Mains-Plastic 2" \$1,032.89 Payroll Taxes Mains-Plastic 2" \$21.75 Stores Mains-Plastic 2" \$734.75 11 Addition Total: \$26,126.65 11 Addition Total: \$26,126.65 11 Addition Dollars Add Qty Retirement Dollars Retire Qt Addition Dollars Add Qty Retirement Dollars Retire Qt Used in Unitization: \$26,126.65 117 \$8,221.35 12	Department Clearings	Mains-Plastic 2"			\$9,989.18	0
Overheads Capitalized - General Mains-Plastic 2" \$13.31 Overheads Capitalized - General Mains-Plastic 2" \$1,080.17 Payroll Taxes Mains-Plastic 2" \$1,032.89 Payroll Taxes Mains-Plastic 2" \$21.75 Stores Mains-Plastic 2" \$734.75 11 Addition Total: \$26,126.65 11 Addition Dollars Add Qty Retirement Dollars Retire Qt Location Total: \$26,126.65 117 \$8,221.35 12 Used in Unitization: \$26,126.65 117 \$8,221.35 12	Overheads Capitalized - Benefits	Mains-Plastic 2"			\$5,979.92	0
Overheads Capitalized - General Mains-Plastic 2" \$1,080.17 Payroll Taxes Mains-Plastic 2" \$1,032.89 Payroll Taxes Mains-Plastic 2" \$21.75 Stores Mains-Plastic 2" \$734.75 11' Addition Total: \$26,126.65 11' Addition Dollars Add Qty Retirement Dollars Retire Qt Location Total: \$26,126.65 117 \$8,221.35 12: Used in Unitization: \$26,126.65 117 \$8,221.35 12:	Overheads Capitalized - Benefits	Mains-Plastic 2"			\$125.91	0
Payroll Taxes Mains-Plastic 2" \$1,032.89 Payroll Taxes Mains-Plastic 2" \$21.75 Stores Mains-Plastic 2" \$734.75 11" Addition Total: \$26,126.65 11" Location Total: \$26,126.65 117 \$8,221.35 Retire Qt Location Total: \$26,126.65 117 \$8,221.35 Retire Qt Used in Unitization: \$26,126.65 117 \$8,221.35 12	Overheads Capitalized - General	Mains-Plastic 2"			\$13.31	0
Payroll Taxes Mains-Plastic 2" \$21.75 Stores Mains-Plastic 2" \$734.75 11 Addition Total: \$26,126.65 11 Addition Dollars Add Qty Retirement Dollars Retire Qt Location Total: \$26,126.65 117 \$8,221.35 12 Addition Dollars Add Qty Retirement Dollars Retire Qt Used in Unitization: \$26,126.65 117 \$8,221.35 12	Overheads Capitalized - General	Mains-Plastic 2"			\$1,080.17	0
Stores Mains-Plastic 2" \$734.75 11"	Payroll Taxes	Mains-Plastic 2"			\$1,032.89	0
Addition Total: \$26,126.65 11 Addition Dollars Add Qty Retirement Dollars Retire Qt Location Total: \$26,126.65 117 \$8,221.35 12 Addition Dollars Add Qty Retirement Dollars Retire Qt Used in Unitization: \$26,126.65 117 \$8,221.35 12	Payroll Taxes	Mains-Plastic 2"			\$21.75	0
Addition Dollars Location Total:Addition Dollars \$26,126.65Add Qty 117Retirement Dollars 	Stores	Mains-Plastic 2"			\$734.75	117
Location Total: \$26,126.65 117 \$8,221.35 12. Addition Dollars Add Qty Retirement Dollars Retire Qt Used in Unitization: \$26,126.65 117 \$8,221.35 12.	-			Addition Total:	\$26,126.65	117
Addition Dollars Add Qty Retirement Dollars Retire Qt Used in Unitization: \$26,126.65 117 \$8,221.35 12-	*		Addition Dollars	Add Qty		Retire Qty
Used in Unitization: \$26,126.65 117 \$8,221.35 12	s	Location Total:	\$26,126.65	117	\$8,221.35	125
			Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
Addition Dollars Add Qty Retirement Dollars Retire Qt	Use	d in Unitization:	\$26,126.65	117	\$8,221.35	125
	·		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
Unit Estimate Total: \$26,126.65 117 \$8,221.35 12	Unit	Estimate Total:	\$26,126.65	117	\$8,221.35	125

	***** Work Order Retirem	ents *****			
Business Segment	GL Account				
Asset Location					
Utility Account					
Retirement Unit			Activity		
Asset Description		Vintage	Code	Retire Qty	Retirement Amount
Posted Retirements:					
Missouri West	101000::Gas Plant in Service				
0401-043050 JACKSON CTY/KC		1301			
376100-Mains - Steel					
Mains-Steel 2"					
OCR		1995	URET	125	\$1,580.99
		Utility Accou	nt Total:	125	\$1,580.99
6/17/19 12:51pm				Schedu	ile JAR-D-7

Schedule JAR-D-7^{age 3} or 4

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Header Detail

Work Order: 802032

Work Order Title: Repl 360F 2P 33rd & Highland

Wo Type Description: WO-Replacement Mains & Svcs MGE

Work Order Group: **Current Revision: 1**

Funding Project: F0599

Funding Project Desc: Main Replacement - ISRS (N) Eligible for AFUDC yes

Eligible for CPI: yes

Reason Code: Strategic

Company: Spire Missouri Inc.

Business Segment: Missouri West

Functional Class: Distribution Plant

Department Code: 20648

Department Description: Construction & Maintenance - Region 2A - Unio

Budget Description: Replace cast iron main - CPI / prio

Est. Annual Revenue:

Reimbursement Type: None

Retirement Type:

WO Description:Install 360 Ft. of 2 inch PL IP Main on 33rd St., and Highland Ave.

Major Location: 0401-KC/MO - Central

Asset Location: 0401-043050 JACKSON CTY/KC

Status: posted to CPR

Estimated Start Date: Jun 25, 2018

Estimated Completion Date: Sep 28, 2018

Estimated In-Service Date:

Sep 28, 2018

Notes: Abandon 354 Ft of 4 in CI LP Main on the above mentioned streets. Total Service Tie-over =5; Total Service Abandoned = 1; Total Service Replace = 0. This main is being replaced due to a leak and is part of FY18 Cast Iron Replacement Program.

Reason for Work (Justification)

Approvals

Level	Approver	Approval Limit	Date Approved
Operational Accounting	Muehlenkamp, Anne	\$0	5/15/2018
Engineering Review-Dist	S Hoeferlin, Craig	\$0	5/29/2018
VP Field Operations-MGE	Hampton, Joe	\$1,000,000	5/30/2018

***** Unit Estimate *****									
Utility Account	Additions	Removal Cost	Total Expenditures	Retirement Value	Salvage				
376200-Mains - Cast Iron	\$0.00	\$7,537.16	\$7,537.16	\$0.00	\$0.00				
376300-Mains - Plastic	\$25,781.79	\$0.00	\$25,781.79	\$0.00	\$0.00				
380200-Services - Plastic & Copper	\$364.94	\$0.00	\$364.94	\$0.00	\$0.00				
Total Estimated Costs:	\$26,146.73	\$7,537.16	\$33,683.89	\$0.00	\$0.0				

***** Unit Estimate *****							
sset Location Utility Account Retirement Unit Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs	
0401-043050 JACKSON CTY/KC	andle or a Title	0.58			. 7 100		
376200-Mains - Cast Iron							
Mains-Cast Iron 4"							
Contract Payroll	\$0.00	\$65.20	0	0	0	0	
Contractor Work	\$0.00	\$4,902.42	0	0	0	0	
Department Clearings	\$0.00	\$56.40	0	0	. 0	0	
Overheads Capitalized - Benefits	\$0.00	\$36.45	0	0	0	0	
Overheads Capitalized - General	\$0.00	\$2,200.76	0	0	0	0	
Payroll Taxes	\$0.00	\$9.91	0	. 0	0	0	
Retirement Value	\$0.00	\$0.00	0	354	0	C	
Stores	\$0.00	\$266.02	0	0	0	C	
SubTotal Utility Account:	\$0.00	\$7,537.16	0.00	354.00	0.00	0.00	
376300-Mains - Plastic							
Mains-Plastic 2"							
Contract Payroll	\$163.00	\$0.00	0	0	0	C	
Contractor Work	\$16,658.81	\$0.00	0	0	0	0	
Department Clearings	\$141.00	\$0.00	0	0	0	0	
Overheads Capitalized - Benefits	\$91.12	\$0.00	0	0	0	0	
Overheads Capitalized - General	\$7,571.39	\$0.00	0	0	0	0	
Payroll Taxes	\$24.78	\$0.00	0	0	0	0	
Stores	\$1,131.69	\$0.00	360	0	0	0	
SubTotal Utility Account:	\$25,781.79	\$0.00	360.00	0.00	0.00	0.00	
380200-Services - Plastic & Copper				- 41			
Services-Plastic							
Contractor Work	\$256.10	\$0.00	0	0	0	0	
Overheads Capitalized - General	\$108.84	\$0.00	0	0	0	0	
SubTotal Utility Account:	\$364.94	\$0.00	0.00	0.00	0.00	0.00	
SubTotal Location:	\$26,146.73	\$7,537.16	360.00	354.00	0.00	0.00	
Total Unit Estimate:	\$26,146.73	\$7,537.16	360	354	0	0	

ak ::	***** Class Codes *****
Class Code	Value
cap_expense	capital
ISRS Reason	08 - Cast Iron or Bare Steel Replacement - Lea
isrs_recov	yes
ohbenefits	yes
ohgen_supv	yes
prod_nonprod	prod

Class Code		Value			
Project Class	ification	both			
1 Toject Olass	illoation	***** As-Built *****		*	
sset Location		A3-Built			
Utility Account					
Ехр Туре					
Est Charge Type	Retirement Unit		Job task	Dollars	Quantity
ed in Unitization:					
401-043050 JACKSON CTY/KC					
376200-Mains - Cast Iron					
Retirement					2
Contractor Work	Mains-Cast Iron 4"			\$6,611.71	(
	*				74
Overheads Capitalized - General	Mains-Cast Iron 4"			\$4,073.48	(
Retirement Value	Mains-Cast Iron 4"			\$4,073.46 \$43.91	354
Stores	Mains-Cast Iron 4"			\$66.13	33.
	Wallis-Cast IIOII 4	n.//			
270200 Maine Pleasie	11	Retir	ement Total:	\$10,795.23	354
376300-Mains - Plastic					
Addition	Maine Dientie Oll			04.040.54	٠,
Contract Payroll	Mains-Plastic 2"			\$4,318.54	(
Contractor Work	Mains-Plastic 2"			\$6,569.26	(
Department Clearings	Mains-Plastic 2"			\$6,348.25	(
Overheads Capitalized - Benefits	Mains-Plastic 2"			\$3,800.32	(
Overheads Capitalized - General	Mains-Plastic 2"			\$4,959.70	(
Payroll Taxes	Mains-Plastic 2"			\$656.42	C
Stores	Mains-Plastic 2"			\$903.00	372
		Ac	ldition Total:	\$27,555.49	372
Retirement	1912 N 1202 NN 1000				
Contractor Work	Mains-Plastic 4"			\$1,963.59	C
Overheads Capitalized - General	Mains-Plastic 4"			\$1,197.79	C
Retirement Value	Mains-Plastic 4"			\$1,697.40	
·		Retir	ement Total:	\$4,858.78	5
380200-Services - Plastic & Copper					
Retirement					
Retirement Value	Services-Plastic			\$1,019.08	177
Retirement Value	Services-Plastic			\$671.24	64
		Retir	ement Total:	\$1,690.32	241
		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
	Location Total:	\$27,555.49	372	\$17,344.33	600
		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
Used	in Unitization:	\$27,555.49	372	\$17,344.33	600
		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
		Addition Dollars	Mud ofty	\$17,344.33	TOTHE CITY

	***** Work Order Retiremen	its *****		
Business Segment Asset Location	GL Account	= =		
Utility Account Retirement Unit Asset Description		Activity Vintage Code	Retire Qty	Retirement Amoun
Posted Retirements:			3.02300 to 351.	Maria da y II
Missouri West 0401-043050 JACKSON CTY/KC 376200-Mains - Cast Iron	101000::Gas Plant in Service			
Mains-Cast Iron 4"				
OCR		1922 URET	354	\$43.91
		Utility Account Total:	354	\$43.91
376300-Mains - Plastic Mains-Plastic 4"		_		= ,=
OCR		2013 URET	5	\$1,697.40
		Utility Account Total:	5	\$1,697.40
380200-Services - Plastic & Copper Services-Plastic		n n h		
OCR		1996 URET	177	\$1,019.08
OCR		1997 URET	64	\$671.24
		Utility Account Total:	241	\$1,690.32
		Location Total:	600	\$3,431.63
		GL Account Total:	600	\$3,431.63
		Posted Retirements:	600	\$3,431.63
		Work Order Total:	600	\$3,431.63

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Header Detail

Work Order: 800690

Work Order Title: Repl 5151F 2-4-6 Hwy71&Gregory Ph L

Wo Type Description: WO-Replacement Mains & Svcs MGE

Work Order Group:

Current Revision: 1

Funding Project: F0599

Funding Project Desc: Main Replacement - ISRS (N) Eligible for AFUDC yes

Eligible for CPI: yes

Reason Code: Strategic

Company: Spire Missouri Inc.

Business Segment: Missouri West

Functional Class: Distribution Plant

Department Code: 20648

Department Description: Construction & Maintenance - Region 2A - Unio

Budget Description: Replace cast iron main - CPI / prio

Est. Annual Revenue:

Reimbursement Type: None

Retirement Type:

WO Description: Install ~ 1325 ft of 2 in PL IP main, 2432 ft of 4 in PL IP main, and ~1394 ft of 6 in PL IP main on Indiana, Bales, Askew, and

75th Street.

Major Location: 0401-KC/MO - Central

Asset Location: 0401-043050 JACKSON CTY/KC

Status: posted to CPR

Estimated Start Date: Mar 27, 2017

Estimated Completion Date: May 01, 2017

Estimated In-Service Date:

Notes: Retire ~ 10 ft of 2 in PL IP main, ~416 ft of 3 in ST IP main, ~132 ft of 4 in PL IP main, ~3466 ft of 4 in ST IP main, and ~759 ft of 6 in ST main at above locations. Uprate ~ 30617 ft of 2 in PL IP to IP main, ~17969 ft of 4 in PL IP to IP main, and ~1394 ft

of 6 in IP to IP main. MAOP is being increased from 55 psi to 58 psi. Total Service Tie-over = 64; Total Service Replace = 14; Total Service Uprate = 557. This main is being replaced as part of the Bare Steel Replacement program. This phase cannot be

completed until all other phases for Hwy 71 are completed.

Reason for Work (Justification)

Approvals

Level	Approver	Approval Limit	Date Approved	
Operational Accounting	Muehlenkamp, Anne	\$0	3/10/2017	
Engineering Review-Dist		\$0	3/20/2017	
VP Field Operations-MGE		\$1,000,000	3/21/2017	

***** Unit Estimate *****								
Utility Account	Additions	Removal Cost	Total Expenditures	Retirement Value	Salvage			
376100-Mains - Steel	\$0.00	\$2,081.57	\$2,081.57	\$0.00	\$0.00			
376300-Mains - Plastic	\$280,881.94	\$725.84	\$281,607.78	\$0.00	\$0.00			
380200-Services - Plastic & Copper	\$46,835.99	\$0.00	\$46,835.99	\$0.00	\$0.00			
Total Estimated Costs:	\$327,717.93	\$2,807.41	\$330,525.34	\$0.00	\$0.00			

		**** As-Built ****	*		
Asset Location					11
Utility Account					
Ехр Туре					
Est Charge Type	Retirement Unit		Job task	Dollars	Quantity
Available for Unitization:					
0401-043050 JACKSON CTY/KC					
376300-Mains - Plastic					
Addition					
Contract Payroll	Mains-Plastic 4"			\$1,037.12	0
Contractor Work	Mains-Plastic 4"			\$8,844.64	0
Contractor Work	Mains-Plastic 4"			\$7,907.18	0
Department Clearings	Mains-Plastic 4"			\$897.11	0
Mechanical Equipment	Mains-Plastic 4"			\$214.40	0
Overheads Capitalized - Benefits	Mains-Plastic 4"			\$579.75	0
Overheads Capitalized - General	Mains-Plastic 4"			\$3,758.97	0
Overheads Capitalized - General	Mains-Plastic 4"			\$4,282.53	0
Payroll Taxes	Mains-Plastic 4"			\$157.64	0
Stores	Mains-Plastic 4"			\$1,798.79	40
			Addition Total:	\$29,478.13	40
	Location Total:	Addition Dollars \$29,478.13	Add Qty 40	Retirement Dollars \$0.00	Retire Qty 0
 		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
Available	for Unitization:	\$29,478.13	40	\$0.00	0
•		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
Unit	Estimate Total:	\$29,478.13	40	\$0.00	0

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	****	Unit Estimate *****				
set Location Utility Account Retirement Unit		D. Harrison D. Wester	A 4 4 0 5 c	Detire Oh:	Add Hrs	Retire Hrs
Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add HIS	Retire Hrs
0401-043050 JACKSON CTY/KC			*			
376300-Mains - Plastic						
Mains-Plastic 2"	\$0.00	\$64.82	0	0	0	(
Contract Payroll	\$17,758.50	\$0.00	0	0	0	(
Contractor Work	\$0.00	\$56.07	0	0	0	C
Department Clearings	\$0.00	\$13.40	0	0	0	C
Mechanical Equipment	\$0.00	\$36.23	0	0	0	C
Overheads Capitalized - Benefits	\$8,758.14	\$9.84	0	0	0	0
Overheads Capitalized - General	\$8,758.14	\$9.85	0	0	0	0
Payroll Taxes	**************************************	\$0.00	0	10	0	C
Retirement Value	\$0.00	F	1325	0	0	
Stores	\$2,848.88	\$0.00	1325	U	. 0	
Mains-Plastic 4"	\$9,380.08	\$64.82	0	0	0	C
Contract Payroll	\$96,367.74	\$242.40	0	0	0	(
Contractor Work	\$8,113.77	\$56.07	0	0	0	
Department Clearings	\$536.00	\$13.40	0	0	0	(
Mechanical Equipment		\$36.23	0	0	0	
Overheads Capitalized - Benefits	\$5,243.46	\$112.86	0	0	0	
Overheads Capitalized - General	\$46,150.74	\$9.85	0	0	0	
Payroll Taxes	\$1,425.77	7	0	132	0	
Retirement Value	\$0.00	\$0.00	2432	0	0	(
Stores	\$10,273.69	\$0.00	2432	U	Ü	,
Mains-Plastic 6"	\$45,032.02	\$0.00	0	. 0	0	(
Contractor Work	\$22,077.68	\$0.00	0	0	0	(
Overheads Capitalized - General	\$6,915.47	\$0.00	1394	0	0	
Stores		300,000				
SubTotal Utility Account:	\$280,881.94	\$725.84	5,151.00	142.00	0.00	0.00
376100-Mains - Steel				20		
Mains-Steel 3"	\$0.00	\$64.82	0	0	- 0	7 7
Contract Payroll	\$0.00	\$56.07	0	0	0	
Department Clearings	\$0.00	\$13.40	0	0	0	
Mechanical Equipment	\$0.00	\$36.23	0	0	0	
Overheads Capitalized - Benefits	\$0.00	\$9.84	0	=	0	
Overheads Capitalized - General	\$0.00	\$9.85	0	0	0	
Payroll Taxes		\$0.00	0		0	
Retirement Value	\$0.00	\$0.00	U	410	1 2	į
Mains-Steel 4"	\$0.00	\$637.14	0	0	0	(
Contract Payroll Department Clearings	\$0.00	\$551.13	0		0	

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***** Unit Estimate *****							
sset Location Utility Account Retirement Unit Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs	
0401-043050 JACKSON CTY/KC				5	Fi		
376100-Mains - Steel							
Mains-Steel 4"							
Mechanical Equipment	\$0.00	\$13.40	0	0	0	C	
Overheads Capitalized - Benefits	\$0.00	\$356.16	0	. 0	0	(
Overheads Capitalized - General	\$0.00	\$46.47	0	0	0	·	
Payroll Taxes	\$0.00	\$96.85	0	0	0		
Retirement Value	\$0.00	\$0.00	0	3466	0	C	
Mains-Steel 6"							
Contract Payroll	\$0.00	\$64.82	0	0	0	(
Department Clearings	\$0.00	\$56.07	0	0	0	(
Mechanical Equipment	\$0.00	\$13.40	0	0	0		
Overheads Capitalized - Benefits	\$0.00	\$36.23	0	0	0		
Overheads Capitalized - General	\$0.00	\$9.84	0	0	0	C	
Payroll Taxes	\$0.00	\$9.85	0	0	0	C	
Retirement Value	\$0.00	\$0.00	0	759	0	C	
SubTotal Utility Account:	\$0.00	\$2,081.57	0.00	4,641.00	0.00	0.00	
380200-Services - Plastic & Copper				'n	n: En n	fi-	
Services-Plastic							
Contractor Work	\$32,867.36	\$0.00	0	0	0	0	
Overheads Capitalized - General	\$13,968.63	\$0.00	0	0	0	0	
Retirement Value	\$0.00	\$0.00	0	79	0	0	
Stores	\$0.00	\$0.00	26	0	0	0	
SubTotal Utility Account:	\$46,835.99	\$0.00	26.00	79.00	0.00	0.00	
SubTotal Location:	\$327,717.93	\$2,807.41	5,177.00	4,862.00	0.00	0.00	
Total Unit Estimate:	\$327,717.93	\$2,807.41	5,177	4,862	0	0	

***** Class Codes *****							
	Class Code		Value				
	cap_expense		capital				
	ISRS Reason		03 - Bare Steel Replacement				
	isrs_recov		yes				
	ohbenefits		yes				
	ohgen_supv		yes				
	prod_nonprod		prod				
	Project Classification		both				

Asset Location		25		11 7
Utility Account				
Ехр Туре				
Est Charge Type	Retirement Unit	Job task	Dollars	Quantity
ed in Unitization:				
401-043050 JACKSON CTY/KC			* 10:11	
376100-Mains - Steel				
Retirement				
Contract Payroll	Mains-Steel 24"		\$71.54	
Contract Payroll	Mains-Steel 6"		\$71.54	
Contract Payroll	Mains-Steel 3"		\$71.54	
Contract Payroll	Mains-Steel 12"		\$71.54	=
Contract Payroll	Mains-Steel 2"		\$71.54	
Contract Payroll	Mains-Steel 4"		\$71.54	n milest
Contractor Work	Mains-Steel 3"		\$2,000.10	
Contractor Work	Mains-Steel 12"		\$2,000.10	
Contractor Work	Mains-Steel 4"		\$2,000.10	
Contractor Work	Mains-Steel 24"		\$2,000.10	
Contractor Work	Mains-Steel 2"		\$2,000.10	
Contractor Work	Mains-Steel 6"		\$2,000.10	
Department Clearings	Mains-Steel 3"		\$105.16	
The same of the sa	Mains-Steel 24"		\$105.16	
Department Clearings			\$105.16	
Department Clearings	Mains-Steel 4"		35 72 CA 74	
Department Clearings	Mains-Steel 2"		\$105.16 \$105.16	
Department Clearings	Mains-Steel 6"		50. 10.00 million (10.00 million (10	
Department Clearings	Mains-Steel 12"		\$105.16	
Overheads Capitalized - Benefits	Mains-Steel 6"		\$62.96	
Overheads Capitalized - Benefits	Mains-Steel 3"		\$62.96	
Overheads Capitalized - Benefits	Mains-Steel 2"		\$62.96	
Overheads Capitalized - Benefits	Mains-Steel 24"		\$62.96	
Overheads Capitalized - Benefits	Mains-Steel 12"		\$62.96	
Overheads Capitalized - Benefits	Mains-Steel 4"		\$62.96	
Overheads Capitalized - General	Mains-Steel 12"		\$1,226.71	
Overheads Capitalized - General	Mains-Steel 4"		\$1,226.71	
Overheads Capitalized - General	Mains-Steel 2"		\$1,226.71	
Overheads Capitalized - General	Mains-Steel 3"		\$1,226.71	
Overheads Capitalized - General	Mains-Steel 6"		\$1,226.71	
Overheads Capitalized - General	Mains-Steel 24"		\$1,226.71	
Payroll Taxes	Mains-Steel 6"		\$10.87	
Payroll Taxes	Mains-Steel 2"		\$10.87	
Payroll Taxes	Mains-Steel 3"		\$10.87	
Payroll Taxes	Mains-Steel 24"		\$10.87	i
Payroll Taxes	Mains-Steel 12"	2	\$10.87	
Payroll Taxes	Mains-Steel 4"		\$10.87	
Retirement Value	Mains-Steel 6"		\$32,648.64	7
Retirement Value	Mains-Steel 12"		\$281.22	2
Retirement Value	Mains-Steel 24"		\$37.82	
Retirement Value	Mains-Steel 6"		\$19,395.90	8
Retirement Value	Mains-Steel 2"		\$12.66	2
Retirement Value	Mains-Steel 3"		\$73.64	41
Retirement Value	Mains-Steel 2"		\$1,193.57	9
Retirement Value	Mains-Steel 6"		\$1,804.59	
Retirement Value	Mains-Steel 4"		\$31.25	1

Asset Location	•	* As-Built *****		
Utility Account				
Ехр Туре			41	
Est Charge Type	Retirement Unit	Job task	Dollars	Quantity
sed in Unitization:		en .		
0401-043050 JACKSON CTY/KC				
376100-Mains - Steel				
Retirement			2	
Retirement Value	Mains-Steel 6"		\$2,005.13	706
Retirement Value	Mains-Steel 4"		\$64.66	1
Retirement Value	Mains-Steel 6"		\$279.96	28
Retirement Value	Mains-Steel 4"		\$2,888.72	936
Retirement Value	Mains-Steel 4"		\$4,260.68	1,389
Retirement Value	Mains-Steel 4"		\$2,726.50	1,117
Retirement Value	Mains-Steel 4"		\$2,368.54	18
Retirement Value	Mains-Steel 12"		\$1,515.16	11
		Retirement Total:	\$92,452.68	4,953
376300-Mains - Plastic				
Addition				
Contract Payroll	Mains-Plastic 6"		\$250.39	(
Contract Payroll	Mains-Plastic 2"		\$500.78	(
Contract Payroll	Mains-Plastic 4"		\$2,682.75	(
Contractor Work	Mains-Plastic 6"		\$66,818.82	(
Contractor Work	Mains-Plastic 2"		\$32,628.92	(
Contractor Work	Mains-Plastic 4"		\$139,828.94	(
Department Clearings	Mains-Plastic 2"		\$736.15	(
Department Clearings	Mains-Plastic 6"		\$368.07	
Department Clearings	Mains-Plastic 4"		\$3,943.64	C
Overheads Capitalized - Benefits	Mains-Plastic 4"		\$2,360.82	
Overheads Capitalized - Benefits	Mains-Plastic 6"		\$220.34	C
Overheads Capitalized - Benefits	Mains-Plastic 2"		\$440.69	C
Overheads Capitalized - General	Mains-Plastic 2"		\$21,580.66	C
Overheads Capitalized - General	Mains-Plastic 6"	1	\$46,492.96	C
Overheads Capitalized - General	Mains-Plastic 4"		\$93,378.49	C
Payroll Taxes	Mains-Plastic 4"		\$407.78	0
Payroll Taxes	Mains-Plastic 2"		\$76.12	C
Payroll Taxes	Mains-Plastic 6"		\$38.06	0
Stores	Mains-Plastic 4"		\$12,841.54	2,368
Stores	Mains-Plastic 6"		\$9,360.97	1,383
Stores	Mains-Plastic 2"		\$2,672.87	1,381
		Addition Total:	\$437,629.76	5,132
Retirement		* De Det		
Contract Payroll	Mains-Plastic 2"		\$71.54	0
Contract Payroll	Mains-Plastic 4"		\$71.54	
Contractor Work	Mains-Plastic 2"		\$2,000.10	
Contractor Work	Mains-Plastic 4"		\$2,721.94	0
Department Clearings	Mains-Plastic 4"		\$105.16	
Department Clearings	Mains-Plastic 2"		\$105.16	0
Overheads Capitalized - Benefits	Mains-Plastic 4"		\$62.96	(
Overheads Capitalized - Benefits	Mains-Plastic 2"		\$62.96	(
Overheads Capitalized - General	Mains-Plastic 2"		\$1,226.71	C
Overheads Capitalized - General	Mains-Plastic 4"		\$1,676.99	C

Asset Location		**** As-B	-			
Utility Account						
Exp Type						
Est Charge Type	Retirement Unit		Job ta	isk	Dollars	Quantity
				XC		
sed in Unitization:						
0401-043050 JACKSON CTY/KC						
376300-Mains - Plastic						
Retirement		2			8	
Payroll Taxes	Mains-Plastic 4"		3		\$10.87	
Payroll Taxes	Mains-Plastic 2"				\$10.87	C
Retirement Value	Mains-Plastic 4"				\$387.39	
Retirement Value	Mains-Plastic 4"				\$1,337.10	98
Retirement Value	Mains-Plastic 4"				\$90.93	6
Retirement Value	Mains-Plastic 2"				\$636.82	10
Stores	Mains-Plastic 4"				\$16.32	0
*			Retirement	Total:	\$10,595.36	119
380100-Services - Steel			Set 100	ES ES		
Retirement						
Contractor Work	Services-Steel				\$810.70	0
Overheads Capitalized - General	Services-Steel				\$494.53	O
Retirement Value	Services-Steel				\$142.16	186
Retirement Value	Services-Steel				\$272.82	202
Retirement Value	Services-Steel				\$38.08	39
Retirement Value	Services-Steel				\$105.08	88
Retirement Value	Services-Steel				\$47.79	53
Retirement Value	Services-Steel				\$31.80	52
Retirement Value	Services-Steel				\$188.84	163
			Retirement	Total:	\$2,131.80	783
380200-Services - Plastic & Copper				h 318 = =		
Addition						
Contract Payroll	Services-Plastic				\$2,682.75	0
Contractor Work	Services-Plastic				\$25,795.04	0
Department Clearings	Services-Plastic				\$3,943.64	0
Overheads Capitalized - Benefits	Services-Plastic				\$2,360.82	0
Overheads Capitalized - General	Services-Plastic				\$16,876.17	0
Payroll Taxes	Services-Plastic				\$407.78	. 0
Stores	Services-Plastic				\$1,461.81	1,338
a degree a particular			Addition	Total:	\$53,528.01	1,338
Retirement			¥			
Contractor Work	Services-Plastic				\$891.77	0
Overheads Capitalized - General	Services-Plastic				\$543.98	0
Retirement Value	Services-Plastic				\$649.98	50
Retirement Value	Services-Plastic				\$435.31	19
Retirement Value	Services-Plastic		4		\$73.82	3
Retirement Value	Services-Plastic				\$1,653.36	129
Retirement Value	Services-Plastic				\$19.11	2
Retirement Value	Services-Plastic				\$262.64	30
Retirement Value	Services-Plastic				\$307.42	13
Retirement Value	Services-Plastic				\$3,305.16	340
Retirement Value	Services-Plastic				\$48.90	2
Retirement Value	Services-Plastic				\$368.48	64
Retirement Value	Services-Plastic				\$1,194.40	92

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		**** As-Built ****			
Asset Location Utility Account					
Exp Type Est Charge Type	Retirement Unit		Job task	Dollars	Quantity
COMMUNICATION OF THE PARTY OF T	THE E SHAPE SERVICES TO THE PROPERTY OF THE PROPERTY OF		and the second and th	A SOM COMPANY	
Jsed in Unitization:		38			
0401-043050 JACKSON CTY/KC		V.			
380200-Services - Plastic & Copper					
Retirement		. 10			
Retirement Value	Services-Plastic			\$103.48	. 9
Retirement Value	Services-Plastic			\$712.93	90
Retirement Value	Services-Plastic			\$90.44	5
Retirement Value	Services-Plastic			\$295.54	23
Retirement Value	Services-Plastic			\$578.11	38
Retirement Value	Services-Plastic			\$67.04	11
Retirement Value	Services-Plastic			\$997.76	92
Retirement Value	Services-Plastic			\$124.90	14
Retirement Value	Services-Plastic			\$356.73	19
Retirement Value	Services-Plastic			\$325.13	31
Retirement Value	Services-Plastic			\$320.44	20
Retirement Value	Services-Plastic			\$595.22	32
Retirement Value	Services-Plastic			\$6,216.90	555
		Ret	tirement Total:	\$20,538.95	1,683
		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
a 1	Location Total:	\$491,157.77	6,470	\$125,718.79	7,538
Kongress and San		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
Ü	sed in Unitization:	\$491,157.77	6,470	\$125,718.79	7,538
in a second		Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
U	nit Estimate Total:	\$491,157.77	6,470	\$125,718.79	7,538

	***** Work Order Retirement	s *****			
Business Segment Asset Location	GL Account	1			
Utility Account Retirement Unit			Activity		
Asset Description		Vintage		Retire Qty	Retirement Amount
osted Retirements:					
Missouri West 0401-043050 JACKSON CTY/KC	101000::Gas Plant in Service				
376100-Mains - Steel					
Mains-Steel 12"					
OCR		1957	URET	23	\$281.22
OCR		1984	URET	11	\$1,515.16
Mains-Steel 2"					
OCR		1928	URET	28	\$12.66
OCR		1993	URET	95	\$1,193.57

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Business Segn	nent	GL Account				
Asset Locatio						
Utility Accou						
Retiremen		T 200 (8)		Activity		t plane ald
	Description		Vintage	Code	Retire Qty	Retirement Amount
osted Retireme	ents:					
Aissouri West	V. 3	101000::Gas Plant in Service			F-	
	JACKSON CTY/KC					
376100-Main						
0.00	Mains-Steel 24"		1042-1002	9-9-10-09-00-0		
OCR	M : 01 100		1927	URET	4	\$37.82
000	Mains-Steel 3"					16 10
OCR	M-1 Ot1-40		1957	URET	415	\$73.64
0.00	Mains-Steel 4"					
OCR			1953	URET	1,389	\$4,260.68
OCR			1954	URET	1,117	\$2,726.50
OCR			1956	URET	15	\$31.25
OCR			1961	URET	936	\$2,888.72
OCR			1991	URET	5	\$64.66
OCR	Maine Ot1 Of		2005	URET	18	\$2,368.54
000	Mains-Steel 6"		*		razere	<u> </u>
OCR			1956	URET	706	\$2,005.13
OCR			1973	URET	28	\$279.96
OCR			2005	URET	6	\$1,804.59
OCR			2011	URET	85	\$19,395.90
OCR			2015	URET _	72	\$32,648.64
			Utility Accou	ınt Total:	4,953	\$71,588.64
376300-Mains	s - Plastic					
	Mains-Plastic 2"					
OCR			2017	URET	10	\$636.82
	Mains-Plastic 4"					
OCR			1991	URET	6	\$90.93
OCR			2005	URET	98	\$1,337.10
OCR			2017	URET	5	\$387.39
			Utility Accou	nt Total:	119	\$2,452.24
380100-Service	res - Steel			_		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
000100 00141	Services-Steel					
OCR	CCIVICCS CICCI		1952	URET	52	624.00
OCR			1952	URET	163	\$31.80 \$188.84
OCR			1953	URET	186	\$168.84 \$142.16
OCR			1954	URET	53	\$47.79
OCR			1961	URET	202	\$272.82
OCR			1966	URET	88	\$105.08
OCR			1967	URET	39	\$38.08
0011				-		
000000	gr w 2 =		Utility Accou	iit iotal:	783	\$826.57
380200-Servi	ces - Plastic & Copper					
4.4	Services-Plastic			12.10		
OCR			1975	URET	11	\$67.04
OCR			1978	URET	90	\$712.93
OCR			1980	URET	92	\$997.76
OCR			1982	URET	23	\$295.54
OCR			1984	URET	2	\$19.11
OCR			1985	URET	14	\$124.90
OCR			1986	URET	92	\$1,194.40
OCR			1989	URET	340	\$3,305.16

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		***** Work Ord	er Retirements ****	*				
Business Segment Asset Location Utility Account Retirement Unit Asset Description		GL Account		Activity Vintage Code Retire Qty			Retirement Amount	
osted Retirements:	•							
Missouri West 0401-043050 JACK 380200-Services -		101000::Gas Plant in Se	rvice					
	rvices-Plastic							
OCR				1991	URET	9	\$103.48	
OCR			* *	1993	URET	555	\$6,216.90	
OCR				1995	URET	30	\$262.64	
OCR				1996	URET	64	\$368.48	
OCR				1997	URET	31	\$325.13	
OCR				1998	URET	129	\$1,653.36	
OCR				2000	URET	50	\$649.98	
OCR				2002	URET	5	\$90.44	
OCR				2003	URET	20	\$320.44	
OCR				2004	URET	32	\$595.22	
OCR				2005	URET	38	\$578.11	
OCR				2009	URET	3	\$73.82	
OCR				2010	URET	19	\$435.31	
OCR				2012	URET	19	\$356.73	
OCR				2014	URET	13	\$307.42	
OCR				2015	URET _	2	\$48.90	
			Ut	ility Accou	nt Total:	1,683	\$19,103.20	
				Location	on Total:	7,538	\$93,970.65	
				GL Accou	nt Total:	7,538	\$93,970.65	
			Pe	osted Retir	ements:	7,538	\$93,970.65	
				Work Ord	er Total:	7,538	\$93,970.65	

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Header Detail

Work Order: 802411

Work Order Title: Repl 85F 2S Republic Main St - Leak

Wo Type Description: WO-Replacement Mains & Svcs MGE

Work Order Group: **Current Revision: 2**

Funding Project: F0572 Funding Project Desc: Main Replacement - ISRS (SW)

Eligible for AFUDC yes Reason Code: Safety

Eligible for CPI: yes

Company: Spire Missouri Inc.

Business Segment: Missouri West Functional Class: Distribution Plant

Department Code: 20921

Department Description: Region 2B - SW Missouri - Distribution - Union

Budget Description: Replace bare steel main - safety re

Est. Annual Revenue: Reimbursement Type: None Retirement Type:

WO Description:Install 85 Ft of 2" ST IP Main on HWY P between W Nicholas Stand Miller Rd due to leaking dressers.

Major Location: 0812-Republic

Asset Location: 0812-034002 GREENE CTY/REPUBLIC

Status: in service

Estimated Start Date: Oct 29, 2018

Estimated Completion Date: Nov 02, 2018

Estimated In-Service Date:

Nov 02, 2018

Notes: Abandon 80 Ft of 2" ST IP Main on HWY P between W NicholasSt and Miller Rd. Main being replaced due to leakage.

Reason for Work (Justification)

Approvals

Level	Approver		Approval Limit	Date Approved
Operational Accounting	Griewing, Michael		\$0	1/9/2019
Engineering Review-Dist	§ Hoeferlin, Craig		\$0	1/14/2019
VP Field Operations-MGE	Goodson, Timothy		\$1,000,000	1/15/2019

All to some	***** Unit E	stimate *****	, ne de n		
Utility Account	Additions	Removal Cost	Total Expenditures	Retirement Value	Salvage
376100-Mains - Steel	\$7,602.60	\$133.47	\$7,736.07	\$0.00	\$0.00
Total Estimated Costs:	\$7,602.60	\$133.47	\$7,736.07	\$0.00	\$0.00

***** Unit Estimate *****								
Asset Location Utility Account Retirement Unit Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs		
0812-034002 GREENE CTY/REPUB 376100-Mains - Steel		1		er, t	and the second			
Mains-Steel 2" Contract Payroll	\$130.40	\$0.00	0	0	0	0		
Contractor Work	\$3,030.00	\$82.90	0	0	0	0		
Department Clearings	\$191.69	\$0.00	0	0	0	0		
Overheads Capitalized - Benefits	\$114.75	\$0.00	0	0	0	0		
Overheads Capitalized - General	\$2,715.00	\$50.57	0	0	0	0		
Payroll Taxes	\$19.82	\$0.00	0	0	0	0		
Retirement Value	\$0.00	\$0.00	0	160	0	0		
Stores	\$1,400.94	\$0.00	85	0	0	0		
SubTotal Utility Account:	\$7,602.60	\$133.47	85.00	160.00	0.00	0.00		
SubTotal Location:	\$7,602.60	\$133.47	85.00	160.00	0.00	0.00		
Total Unit Estimate:	\$7,602.60	\$133.47	85	160	0	0		

		***** Class Codes *****		
Class Code		Value		
cap_expense		capital		
ISRS Reason	1	08 - Cast Iron or Bare Steel Repla	acement - Lea	
isrs_recov		yes		
ohbenefits		yes		
ohgen_supv		yes		
prod_nonprod	i	prod		
Project Class	ification	both		
		***** As-Built *****	, a seringer a	
Asset Location Utility Account Exp Type	== X III vi			
Est Charge Type	Retirement Unit	Job task	Dollars	Quantity
vallable for Unitization: 0812-034002 GREENE CTY/REPUBLIC 376100-Mains - Steel Addition				
Contract Payroll	Mains-Steel 2"		\$4,416.38	0
Department Clearings	Mains-Steel 2"	e e	\$6,492.08	0
Overheads Capitalized - Benefits	Mains-Steel 2"		\$3,886.41	0
Overheads Capitalized - General	Mains-Steel 2"		\$2,810.42	0
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Available for Unitization: 0812-034002 GREENE CTY/REPUBLIC 376100-Mains - Steel Addition Payroll Taxes Mains-Steel 2" \$671.29 Stores Mains-Steel 2" \$3,933.93 Retirement Contract Payroll Mains-Steel 2" \$3,976.29 Department Clearings Mains-Steel 2" \$3,976.29 Department Clearings Mains-Steel 2" \$5,845.15 Overheads Capitalized - Benefits Mains-Steel 2" \$3,499.14 Overheads Capitalized - General Mains-Steel 2" \$649.81 Payroll Taxes Mains-Steel 2" \$669.81 Retirement Value Mains-Steel 2" \$659.2 Stores Mains-Steel 2" \$659.2 Stores Mains-Steel 2" \$659.92 Stores Mains-Steel 2" \$659.92 Stores Mains-Steel 2" \$659.92 Stores Mains-Steel 2" \$659.92 Addition Dollars Add Qty Retirement Dollars Retire Q Available for Unitization: \$22,210.51 51 \$15,099.75 32 Addition Dollars Add Qty Retirement Dollars Retire Q	-		***** As-Built *****			
Exp Type						
Est Charge Type Retirement Unit Job task Dollars Quantitization: 0812-034002 GREENE CTY/REPUBLIC 376100-Mains - Steel 2" \$671.29 Stores Mains-Steel 2" \$3,933.93 18 Retirement Contract Payroll Mains-Steel 2" \$3,976.29 Department Clearings Mains-Steel 2" \$3,976.29 Department Clearings Mains-Steel 2" \$3,499.14 Overheads Capitalized - Benefits Mains-Steel 2" \$3,499.14 Overheads Capitalized - General Mains-Steel 2" \$604.40 Retirement Value Mains-Steel 2" \$65.92 3 Stores Mains-Steel 2" \$65.92 3 Retirement Total: \$15,099.75 3 Addition Dollars Add Qty Retirement Dollars Retire Q	(Construction (Fig.) : 1 (Color 10) - 1 (Color 10					
Available for Unitization: 0812-034002 GREENE CTY/REPUBLIC 376100-Mains - Steel Addition Payroll Taxes Mains-Steel 2" \$671.29 Stores Mains-Steel 2" \$3,933.93 Retirement Contract Payroll Mains-Steel 2" \$3,976.29 Department Clearings Mains-Steel 2" \$5,845.15 Overheads Capitalized - Benefits Mains-Steel 2" \$3,499.14 Overheads Capitalized - General Mains-Steel 2" \$604.81 Payroll Taxes Mains-Steel 2" \$604.40 Retirement Value Mains-Steel 2" \$65.92 Stores Mains-Steel 2" \$65.92 Stores Mains-Steel 2" \$65.92 Addition Dollars Add Qty Retirement Dollars Retire Q Available for Unitization: \$22,210.51 51 \$15,099.75 Addition Dollars Add Qty Retirement Dollars Retire Q	n /enn -	A		Acres No. of Control o	- Pro-II-soon	
Addition	Est Charge Type	Retirement Unit		Job task	Dollars	Quantity
0812-034002 GREENE CTY/REPUBLIC 376100-Mains - Steel Addition Payroll Taxes Mains-Steel 2" \$3,933.93 Addition Total: \$22,210.51 Retirement Contract Payroll Mains-Steel 2" \$3,976.29 Department Clearings Mains-Steel 2" \$5,845.15 Overheads Capitalized - Benefits Mains-Steel 2" \$649.81 Payroll Taxes Mains-Steel 2" \$649.81 Payroll Taxes Mains-Steel 2" \$604.40 Retirement Value Mains-Steel 2" \$65.92 \$55.99 Stores Mains-Steel 2" \$865.92 \$15,099.75 Stores Mains-Steel 2" \$869.92 \$15,099.75 Stores Mains-Steel 2" \$869.92 \$15,099.75 Stores Add Qty Retire Q <td< td=""><td>Available for Unitization:</td><td></td><td></td><td></td><td></td><td></td></td<>	Available for Unitization:					
Addition						
Addition						
Payroll Taxes Mains-Steel 2" \$3,933.93 34						
Stores Mains-Steel 2" \$3,933.93 54	Payroll Taxes	Mains-Steel 2"			\$671.29	0
Retirement Say	N#//	Mains-Steel 2"			\$3,933.93	51
Contract Payroll Mains-Steel 2" \$3,976.29			А	ddition Total:	\$22,210.51	51
State Stat	Retirement					
Overheads Capitalized - Benefits Mains-Steel 2" \$3,499.14 Overheads Capitalized - General Mains-Steel 2" \$649.81 Payroll Taxes Mains-Steel 2" \$604.40 Retirement Value Mains-Steel 2" \$65.92 Stores Mains-Steel 2" \$459.04 Retirement Total: \$15,099.75 Addition Dollars Add Qty Retirement Dollars Retire Q Available for Unitization: \$22,210.51 51 \$15,099.75 315,099.75 Addition Dollars Add Qty Retirement Dollars Retire Q Addition Dollars Add Qty Retirement Dollars Retire Q	Contract Payroll	Mains-Steel 2"			\$3,976.29	0
Overheads Capitalized - General Mains-Steel 2" \$649.81 Payroll Taxes Mains-Steel 2" \$604.40 Retirement Value Mains-Steel 2" \$65.92 Stores Mains-Steel 2" \$459.04 Retirement Total: \$15,099.75 Addition Dollars Add Qty Retirement Dollars Retire Q Location Total: \$22,210.51 51 \$15,099.75 31 Addition Dollars Add Qty Retirement Dollars Retire Q Addition Dollars Add Qty Retirement Dollars Retire Q	Department Clearings	Mains-Steel 2"			\$5,845.15	0
Payroll Taxes Mains-Steel 2" \$604.40 Retirement Value Mains-Steel 2" \$65.92 \$65.92 Stores Mains-Steel 2" \$459.04 Retirement Total: \$15,099.75 \$61.00 Retirement Total: \$15,099.75 \$61.00 Addition Dollars Add Qty Retirement Dollars Retire Quality Available for Unitization: \$22,210.51 51 \$15,099.75 \$61.00 Addition Dollars Add Qty Retirement Dollars Retire Quality Retire Quality Retirement Dollars Retire Quality Retirement Dollars Retire Quality Retire Quality Retirement Dollars Retire Quality Retirement Dollars Retire Quality Retire Quality Retirement Dollars Retire Quality Retirement Dollars Retire Quality Retire Quality Retirement Dollars Retire Quality	Overheads Capitalized - Benefits	Mains-Steel 2"			\$3,499.14	0
Retirement Value Mains-Steel 2" \$459.04 Stores Mains-Steel 2" \$459.04 Stores Mains-Steel 2" \$459.04 Stores Retirement Total: \$15,099.75 Stores Addition Dollars Add Qty Retirement Dollars Retire Q Stores Addition Dollars Add Qty Retirement Dollars Retire Q Stores Addition Dollars Add Qty Retirement Dollars Retire Q Stores	Overheads Capitalized - General	Mains-Steel 2"			\$649.81	0
Stores Mains-Steel 2" \$459.04 Retirement Total: \$15,099.75 Stores Addition Dollars Add Qty Retire Q Location Total: \$22,210.51 51 \$15,099.75 Retire Q Addition Dollars Add Qty Retirement Dollars Retire Q Addition Dollars Add Qty Retirement Dollars Retire Q	Payroll Taxes	Mains-Steel 2"			\$604.40	0
Retirement Total: \$15,099.75 Addition Dollars Add Qty Retirement Dollars Setire Quality Location Total: \$22,210.51 51 \$15,099.75 Addition Dollars Add Qty Retirement Dollars Retire Quality Available for Unitization: \$22,210.51 51 \$15,099.75 Addition Dollars Add Qty Retirement Dollars Retire Quality Addition Dollars Add Qty Retirement Dollars Retire Quality	Retirement Value	Mains-Steel 2"	18		\$65.92	36
Addition Dollars Add Qty Retirement Dollars Retire Q Location Total: \$22,210.51 51 \$15,099.75 5 Addition Dollars Add Qty Retirement Dollars Retire Q Available for Unitization: \$22,210.51 51 \$15,099.75 51 Addition Dollars Add Qty Retirement Dollars Retire Q	Stores	Mains-Steel 2"			\$459.04	0
Location Total: \$22,210.51 51 \$15,099.75 3 Addition Dollars Add Qty Retirement Dollars Retire Q Available for Unitization: \$22,210.51 51 \$15,099.75 3 Addition Dollars Add Qty Retirement Dollars Retire Q	8		Reti	rement Total:	\$15,099.75	36
Location Total: \$22,210.51 51 \$15,099.75 3 Addition Dollars Add Qty Retirement Dollars Retire Q Available for Unitization: \$22,210.51 51 \$15,099.75 3 Addition Dollars Add Qty Retirement Dollars Retire Q			Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
Available for Unitization: \$22,210.51 51 \$15,099.75 3 Addition Dollars Add Qty Retirement Dollars Retire Q		Location Total:	\$22,210.51	51	\$15,099.75	36
Available for Unitization: \$22,210.51 51 \$15,099.75 3 Addition Dollars Add Qty Retirement Dollars Retire Q			Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
	Available	for Unitization:	-	51	\$15,099.75	36
Unit Estimate Total: \$22,210.51 51 \$15,099.75			Addition Dollars	Add Qty	Retirement Dollars	Retire Qty
	Unit	Estimate Total:	\$22,210.51	51	\$15,099.75	36
***** Work Order Retirements *****		***** \#/a:	rk Order Petiroments **	***		
Business Segment GL Account	Rusinass Sagment		k Order Retirements			

	***** Work Order Retireme	ents *****		
Business Segment Asset Location Utility Account Retirement Unit Asset Description	GL Account	Activity Vintage Code	Retire Qty	Retirement Amount
Selected Retirements:				
Missouri West 0812-034002 GREENE CTY/REPUBLIC 376100-Mains - Steel	101000::Gas Plant in Service			
Mains-Steel 2"				
OCR		1969 URET	36	\$65.92
		Utility Account Total:	36	\$65.92
		Location Total:	36	\$65.92
		GL Account Total:	36	\$65.92
		Selected Retirements:	36	\$65.92
		Work Order Total:	36	\$65.92

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