

Work Order Authorization Information

Header Detail

Work Order: 900994	Company: Spire Missouri Inc.
Work Order Title: Repl w/ 2822F 2P CentralWestEndPh1H	Business Segment: Missouri East
Wo Type Description: WO-Replacement Mains & Services	Functional Class: Distribution Plant
Work Order Group:	Department Code: 10648
Current Revision: 1	Department Description: Construction - Region 1A - Union
Funding Project: 3303L	Budget Description: Replacement of Dist Sys - Laclede
Funding Project Desc: Replacement of Dist Sys - Laclede	Est. Annual Revenue:
Eligible for AFUDC: yes	Reimbursement Type: None
Eligible for CPI: yes	Retirement Type:
Reason Code: Strategic	
WO Description: Install 2,822 Ft. 2 in. PL IP Main on Maryland Ave, Lindell Blvd, and North Taylor Ave between N. Euclid Ave and N. Newstead Ave. Abandon 953 Ft. 4 in. CI LP Main, 3,516 Ft. 6 in. CI LP Main, 163 Ft. 12 in. CI L	
Major Location: Mass Property-Laclede	Status: posted to CPR
Asset Location: Laclede-St. Louis City	
Estimated Start Date: Aug 03, 2015	Estimated Completion Date: Sep 30, 2015
	Estimated In-Service Date: Sep 30, 2015
Notes: This main is being replaced as part of the FY15 Cast Iron Replacement Program.	

Reason for Work (Justification)

Approvals

Level	Approver	Approval Limit	Date Approved
Operational Accounting	Muehlenkamp, Anne	\$0	5/18/2015
Engineering Review-Dist	Hoeflerlin, Craig	\$0	5/27/2015
VP Field Operations	Reitz, Tom	\$500,000	5/27/2015

**** Unit Estimate ****

Utility Account	Additions	Removal Cost	Total Expenditures	Retirement Value	Salvage
376100-Mains - Steel	\$0.00	\$2,556.22	\$2,556.22	\$0.00	\$0.00
376200-Mains - Cast Iron	\$0.00	\$30,878.77	\$30,878.77	\$0.00	\$0.00
376300-Mains - Plastic	\$152,110.23	\$0.00	\$152,110.23	\$0.00	\$0.00
380100-Services - Steel	\$0.00	\$451.87	\$451.87	\$0.00	\$0.00
380200-Services - Plastic & Copper	\$41,077.34	\$263.23	\$41,340.57	\$0.00	\$0.00
Total Estimated Costs:	\$193,187.57	\$34,150.09	\$227,337.66	\$0.00	\$0.00

OPC Exhibit No. 209
 Date 8/27/18 Reporter JMS

File No. GO-2016-03328-0333
GO-2017-0201-0002

GO-2018-0309-0310

Work Order Authorization Information

***** Unit Estimate *****

Asset Location						
Utility Account						
Retirement Unit						
Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs
Laclede-St. Louis City						
376200-Mains - Cast Iron						
Mains-Cast Iron 12"						
Contract Payroll	\$0.00	\$459.80	0	0	0	0
Department Clearings	\$0.00	\$5,852.40	0	0	0	0
Mechanical Equipment	\$0.00	\$842.47	0	0	0	0
Overheads Capitalized - Benefits	\$0.00	\$3,928.13	0	0	0	0
Overheads Capitalized - General	\$0.00	\$5,408.06	0	0	0	0
Payroll Taxes	\$0.00	\$702.29	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	162.5	0	0
Stores	\$0.00	\$137.51	0	0	0	0
Mains-Cast Iron 16"						
Contract Payroll	\$0.00	\$312.05	0	0	0	0
Mechanical Equipment	\$0.00	\$613.59	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	10	0	0
Mains-Cast Iron 20"						
Contract Payroll	\$0.00	\$312.05	0	0	0	0
Mechanical Equipment	\$0.00	\$613.59	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	82.1	0	0
Mains-Cast Iron 4"						
Contract Payroll	\$0.00	\$312.05	0	0	0	0
Mechanical Equipment	\$0.00	\$613.59	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	953	0	0
Mains-Cast Iron 6"						
Contract Payroll	\$0.00	\$3,285.97	0	0	0	0
Mechanical Equipment	\$0.00	\$4,997.74	0	0	0	0
Retirement Value	\$0.00	\$0.00	0	3515.7	0	0
Stores	\$0.00	\$2,487.48	0	0	0	0
SubTotal Utility Account:	\$0.00	\$30,878.77	0.00	4,723.30	0.00	0.00
376300-Mains - Plastic						
Mains-Plastic 2"						
Contract Payroll	\$23,176.96	\$0.00	0	0	0	0
Department Clearings	\$34,301.90	\$0.00	0	0	0	0
Mechanical Equipment	\$40,986.40	\$0.00	0	0	0	0
Overheads Capitalized - Benefits	\$19,445.47	\$0.00	0	0	0	0
Overheads Capitalized - General	\$21,764.80	\$0.00	0	0	0	0
Payroll Taxes	\$3,412.05	\$0.00	0	0	0	0
Stores	\$9,022.65	\$0.00	2822	0	0	0
SubTotal Utility Account:	\$152,110.23	\$0.00	2,822.00	0.00	0.00	0.00

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***** Unit Estimate *****

Asset Location	Utility Account	Retirement Unit	Est. Chg Type	Addition Dollars	Retirement Dollars	Add Qty	Retire Qty	Add Hrs	Retire Hrs
Laclede-St. Louis City									
376100-Mains - Steel									
Mains-Steel 20"									
	Contract Payroll			\$0.00	\$400.70	0	0	0	0
	Department Clearings			\$0.00	\$500.88	0	0	0	0
	Mechanical Equipment			\$0.00	\$764.38	0	0	0	0
	Overheads Capitalized - Benefits			\$0.00	\$336.19	0	0	0	0
	Overheads Capitalized - General			\$0.00	\$445.02	0	0	0	0
	Payroll Taxes			\$0.00	\$60.11	0	0	0	0
	Retirement Value			\$0.00	\$0.00	0	133.5	0	0
	Stores			\$0.00	\$48.94	0	0	0	0
	SubTotal Utility Account:			\$0.00	\$2,556.22	0.00	133.50	0.00	0.00
380200-Services - Plastic & Copper									
Services-Plastic									
	Contract Payroll			\$6,063.66	\$68.85	0	0	0	0
	Department Clearings			\$8,974.22	\$86.07	0	0	0	0
	Mechanical Equipment			\$12,957.69	\$0.00	0	0	0	0
	Overheads Capitalized - Benefits			\$5,087.41	\$57.77	0	0	0	0
	Overheads Capitalized - General			\$5,464.11	\$40.21	0	0	0	0
	Payroll Taxes			\$909.55	\$10.33	0	0	0	0
	Stores			\$1,620.70	\$0.00	0	0	0	0
	SubTotal Utility Account:			\$41,077.34	\$263.23	0.00	0.00	0.00	0.00
380100-Services - Steel									
Services-Steel									
	Contract Payroll			\$0.00	\$118.20	0	0	0	0
	Department Clearings			\$0.00	\$147.75	0	0	0	0
	Overheads Capitalized - Benefits			\$0.00	\$99.17	0	0	0	0
	Overheads Capitalized - General			\$0.00	\$69.02	0	0	0	0
	Payroll Taxes			\$0.00	\$17.73	0	0	0	0
	SubTotal Utility Account:			\$0.00	\$451.87	0.00	0.00	0.00	0.00
	SubTotal Location:			\$193,187.57	\$34,150.09	2,822.00	4,856.80	0.00	0.00
	Total Unit Estimate:			\$193,187.57	\$34,150.09	2,822	4,857	0	0

***** Class Codes *****

Class Code	Value
cap_expense	capital
ISRS Reason	01 - Cast Iron Strategic Replacement
isrs_recov	yes

Work Order Authorization Information

***** Class Codes *****	
Class Code	Value
ohbenefits	yes
ohgen_supv	yes
prod_nonprod	prod
Project Classification	both

***** As-Built *****

Asset Location				
Utility Account				
Exp Type				
Est Charge Type	Retirement Unit	Job task	Dollars	Quantity

Used in Utilization:

Laclede-St. Louis City				
376100-Mains - Steel				
Retirement				
Contract Payroll	Mains-Steel 20"		\$46.17	0
Department Clearings	Mains-Steel 20"		\$57.71	0
Mechanical Equipment	Mains-Steel 20"		\$21.84	0
Overheads Capitalized - Benefits	Mains-Steel 20"		\$43.49	0
Overheads Capitalized - General	Mains-Steel 20"		\$11.80	0
Payroll Taxes	Mains-Steel 20"		\$7.02	0
Retirement Value	Mains-Steel 20"		\$885.57	21
Retirement Value	Mains-Steel 20"		\$3,409.32	125
Retirement Total:			\$4,482.92	146

376200-Mains - Cast Iron				
Retirement				
Contract Payroll	Mains-Cast Iron 20"		\$48.89	0
Contract Payroll	Mains-Cast Iron 4"		\$46.17	0
Contract Payroll	Mains-Cast Iron 6"		\$50.93	0
Contract Payroll	Mains-Cast Iron 12"		\$218.64	0
Contract Payroll	Mains-Cast Iron 16"		\$46.17	0
Contract Payroll	Mains-Cast Iron 6"		\$632.83	0
Department Clearings	Mains-Cast Iron 12"		\$273.30	0
Department Clearings	Mains-Cast Iron 20"		\$61.11	0
Department Clearings	Mains-Cast Iron 4"		\$57.71	0
Department Clearings	Mains-Cast Iron 16"		\$57.71	0
Department Clearings	Mains-Cast Iron 6"		\$63.66	0
Department Clearings	Mains-Cast Iron 6"		\$791.04	0
Mechanical Equipment	Mains-Cast Iron 6"		\$19.16	0
Mechanical Equipment	Mains-Cast Iron 20"		\$22.83	0
Mechanical Equipment	Mains-Cast Iron 6"		\$246.67	0
Mechanical Equipment	Mains-Cast Iron 16"		\$21.84	0
Mechanical Equipment	Mains-Cast Iron 12"		\$86.40	0
Mechanical Equipment	Mains-Cast Iron 4"		\$21.84	0
Overheads Capitalized - Benefits	Mains-Cast Iron 16"		\$43.49	0
Overheads Capitalized - Benefits	Mains-Cast Iron 12"		\$205.96	0
Overheads Capitalized - Benefits	Mains-Cast Iron 6"		\$596.13	0
Overheads Capitalized - Benefits	Mains-Cast Iron 20"		\$46.05	0
Overheads Capitalized - Benefits	Mains-Cast Iron 6"		\$47.98	0

Work Order Authorization Information

***** As-Built *****

Asset Location	Utility Account	Exp Type	Retirement Unit	Job task	Dollars	Quantity	
Est Charge Type							
Used in Unitization:							
Laclede-St. Louis City							
376200-Mains - Cast Iron							
Retirement							
Overheads Capitalized - Benefits			Mains-Cast Iron 4"		\$43.49	0	
Overheads Capitalized - General			Mains-Cast Iron 6"		\$183.91	0	
Overheads Capitalized - General			Mains-Cast Iron 6"		\$148.42	0	
Overheads Capitalized - General			Mains-Cast Iron 12"		\$93.68	0	
Overheads Capitalized - General			Mains-Cast Iron 4"		\$11.80	0	
Overheads Capitalized - General			Mains-Cast Iron 20"		\$12.37	0	
Overheads Capitalized - General			Mains-Cast Iron 16"		\$11.80	0	
Payroll Taxes			Mains-Cast Iron 12"		\$33.23	0	
Payroll Taxes			Mains-Cast Iron 4"		\$7.02	0	
Payroll Taxes			Mains-Cast Iron 6"		\$7.74	0	
Payroll Taxes			Mains-Cast Iron 6"		\$96.19	0	
Payroll Taxes			Mains-Cast Iron 20"		\$7.43	0	
Payroll Taxes			Mains-Cast Iron 16"		\$7.02	0	
Retirement Value			Mains-Cast Iron 12"		\$291.78	18	
Retirement Value			Mains-Cast Iron 4"		\$1,332.46	953	
Retirement Value			Mains-Cast Iron 6"		\$711.93	193	
Retirement Value			Mains-Cast Iron 20"		\$558.08	82	
Retirement Value			Mains-Cast Iron 6"		\$1,672.86	1,096	
Retirement Value			Mains-Cast Iron 6"		\$94.98	36	
Retirement Value			Mains-Cast Iron 12"		\$206.28	68	
Retirement Value			Mains-Cast Iron 6"		\$4,488.45	2,159	
Retirement Value			Mains-Cast Iron 12"		\$2,170.68	77	
Retirement Value			Mains-Cast Iron 16"		\$249.75	10	
Retirement Value			Mains-Cast Iron 6"		\$56.13	27	
Stores			Mains-Cast Iron 6"		\$107.05	0	
Stores			Mains-Cast Iron 6"		\$336.00	0	
Stores			Mains-Cast Iron 12"		\$109.50	0	
					Retirement Total:	\$16,756.54	4,719
376300-Mains - Plastic							
Addition							
Contract Payroll			Mains-Plastic 4"		\$11,760.97	0	
Contract Payroll			Mains-Plastic 2"		\$7,579.34	0	
Contract Payroll			Mains-Plastic 2"		\$797.82	0	
Contract Payroll			Mains-Plastic 2"		\$13,680.17	0	
Contract Payroll			Mains-Plastic 4"		\$2,300.11	0	
Contract Payroll			Mains-Plastic 4"		\$5,185.87	0	
Contract Payroll			Mains-Plastic 2"		\$731.62	0	
Department Clearings			Mains-Plastic 2"		\$17,100.21	0	
Department Clearings			Mains-Plastic 2"		\$9,474.18	0	
Department Clearings			Mains-Plastic 4"		\$6,482.34	0	
Department Clearings			Mains-Plastic 2"		\$997.28	0	
Department Clearings			Mains-Plastic 2"		\$914.53	0	
Department Clearings			Mains-Plastic 4"		\$2,875.14	0	
Department Clearings			Mains-Plastic 4"		\$14,701.21	0	

Work Order Authorization Information

***** As-Built *****

Asset Location				
Utility Account				
Exp Type				
Est Charge Type	Retirement Unit	Job task	Dollars	Quantity
Used in Unitization:				
Laclede-St. Louis City				
376300-Mains - Plastic				
Addition				
Mechanical Equipment	Mains-Plastic 2"		\$3,326.43	0
Mechanical Equipment	Mains-Plastic 2"		\$350.16	0
Mechanical Equipment	Mains-Plastic 4"		\$4,642.41	0
Mechanical Equipment	Mains-Plastic 2"		\$275.10	0
Mechanical Equipment	Mains-Plastic 2"		\$5,519.00	0
Mechanical Equipment	Mains-Plastic 4"		\$2,275.98	0
Mechanical Equipment	Mains-Plastic 4"		\$875.38	0
Overheads Capitalized - Benefits	Mains-Plastic 4"		\$11,078.83	0
Overheads Capitalized - Benefits	Mains-Plastic 2"		\$689.19	0
Overheads Capitalized - Benefits	Mains-Plastic 4"		\$4,885.09	0
Overheads Capitalized - Benefits	Mains-Plastic 4"		\$2,166.70	0
Overheads Capitalized - Benefits	Mains-Plastic 2"		\$7,139.74	0
Overheads Capitalized - Benefits	Mains-Plastic 2"		\$12,886.72	0
Overheads Capitalized - Benefits	Mains-Plastic 2"		\$751.55	0
Overheads Capitalized - General	Mains-Plastic 4"		\$1,847.88	0
Overheads Capitalized - General	Mains-Plastic 2"		\$2,132.20	0
Overheads Capitalized - General	Mains-Plastic 2"		\$5,132.94	0
Overheads Capitalized - General	Mains-Plastic 4"		\$4,350.62	0
Overheads Capitalized - General	Mains-Plastic 4"		\$906.10	0
Overheads Capitalized - General	Mains-Plastic 2"		\$340.64	0
Overheads Capitalized - General	Mains-Plastic 2"		\$2,949.95	0
Payroll Taxes	Mains-Plastic 4"		\$349.62	0
Payroll Taxes	Mains-Plastic 2"		\$111.21	0
Payroll Taxes	Mains-Plastic 2"		\$121.27	0
Payroll Taxes	Mains-Plastic 2"		\$2,079.39	0
Payroll Taxes	Mains-Plastic 4"		\$788.25	0
Payroll Taxes	Mains-Plastic 2"		\$1,152.06	0
Payroll Taxes	Mains-Plastic 4"		\$1,787.67	0
Stores	Mains-Plastic 2"		\$4,957.22	1,703
Stores	Mains-Plastic 2"		\$361.76	0
Stores	Mains-Plastic 4"		\$4,211.96	1,387
Stores	Mains-Plastic 4"		\$991.35	0
Stores	Mains-Plastic 2"		\$2,737.22	0
Stores	Mains-Plastic 2"		\$4,827.20	0
Stores	Mains-Plastic 4"		\$1,455.94	0
Addition Total:			\$195,035.52	3,090
380100-Services - Steel				
Retirement				
Contract Payroll	Services-Steel		\$195.21	0
Department Clearings	Services-Steel		\$244.01	0
Overheads Capitalized - Benefits	Services-Steel		\$183.89	0
Overheads Capitalized - General	Services-Steel		\$118.97	0
Payroll Taxes	Services-Steel		\$29.67	0
Retirement Value	Services-Steel		\$1,664.84	206

Work Order Authorization Information

***** As-Built *****

Asset Location	Utility Account	Exp Type	Est Charge Type	Retirement Unit	Job task	Dollars	Quantity
Used in Unitization:							
Laclede-St. Louis City							
380100-Services - Steel							
Retirement							
				Services-Steel		\$1,326.79	88
				Services-Steel		\$2,258.44	201
				Services-Steel		\$818.79	51
				Services-Steel		\$420.36	93
				Services-Steel		\$372.35	75
				Services-Steel		\$296.69	9
				Services-Steel		\$43.15	52
				Services-Steel		\$982.39	81
				Services-Steel		\$428.43	52
				Services-Steel		\$5,261.28	509
				Services-Steel		\$717.23	72
				Services-Steel		\$504.96	227
				Services-Steel		\$73.92	60
				Services-Steel		\$1,386.45	194
				Services-Steel		\$45.05	15
				Services-Steel		\$61.63	55
				Services-Steel		\$261.28	0
Retirement Total:						\$17,695.78	2,040
380200-Services - Plastic & Copper							
Addition							
				Services-Plastic		\$14,717.33	0
				Services-Plastic		\$18,396.66	0
				Services-Plastic		\$4,505.66	0
				Services-Plastic		\$13,863.72	0
				Services-Plastic		\$4,138.43	0
				Services-Plastic		\$2,237.03	0
				Services-Plastic		\$3,381.77	3,172
Addition Total:						\$61,240.60	3,172
Retirement							
				Services-Plastic		\$101.85	0
				Services-Plastic		\$127.31	0
				Services-Plastic		\$95.94	0
				Services-Plastic		\$62.07	0
				Services-Plastic		\$15.48	0
				Services-Plastic		\$11,675.63	172
				Services-Plastic		\$6,038.05	107
				Services-Plastic		\$1,811.98	46
				Services-Plastic		\$1,437.27	70
				Services-Plastic		\$658.80	50
				Services-Plastic		\$2,048.06	200
				Services-Plastic		\$3,880.87	123
				Services-Plastic		\$4,781.08	125
				Services-Plastic		\$3,528.86	101
				Services-Plastic		\$16,323.19	239

Work Order Authorization Information

***** 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 East	101000::Gas Plant in Service			
Laclede-St. Louis City				
376200-Mains - Cast Iron				
Mains-Cast Iron 6"				
OCR		1948 URET	193	\$711.93
←				
		Utility Account Total:	4,719	\$11,833.38
380100-Services - Steel				
Services-Steel				
OCR		1928 URET	52	\$43.15
OCR		1935 URET	55	\$61.63
OCR		1940 URET	60	\$73.92
OCR		1946 URET	227	\$504.96
OCR		1951 URET	15	\$45.05
OCR		1954 URET	93	\$420.36
OCR		1955 URET	75	\$372.35
OCR		1957 URET	194	\$1,386.45
OCR		1960 URET	206	\$1,664.84
OCR		1961 URET	52	\$428.43
OCR		1962 URET	72	\$717.23
OCR		1963 URET	509	\$5,261.28
OCR		1964 URET	201	\$2,258.44
OCR		1965 URET	81	\$982.39
OCR		1968 URET	51	\$818.79
OCR		1971 URET	88	\$1,326.79
OCR		1978 URET	9	\$296.69
		Utility Account Total:	2,040	\$16,662.75
380200-Services - Plastic & Copper				
Services-Plastic				
OCR		1976 URET	200	\$2,048.06
OCR		1977 URET	50	\$658.80
OCR		1980 URET	70	\$1,437.27
OCR		1986 URET	123	\$3,880.87
OCR		1993 URET	125	\$4,781.08
OCR		1995 URET	101	\$3,528.86
OCR		1998 URET	107	\$6,038.05
OCR		2000 URET	46	\$1,811.98
OCR		2007 URET	172	\$11,675.63
OCR		2015 URET	239	\$16,323.19
		Utility Account Total:	1,233	\$52,183.79
		Location Total:	8,138	\$84,974.81
		GL Account Total:	8,138	\$84,974.81
		Posted Retirements:	8,138	\$84,974.81
		Work Order Total:	8,138	\$84,974.81