

FAC 8271 CHILLED WATER AND REFRIGERANT DISTRIBUTION LINE

FY22 SUC: \$3.34 LF

Source: Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 8271 CHILLED WATER AND REFRIGERANT DISTRIBUTION LINE

Release 2021 Qtr 3

Zip Code Prefix 222

Type MR

UM LF

Design Life 28

Average Size 2400.0

SUC \$3.34

Adjusted Occurences are the occurrences remaining after subtracting Repair/Replacement Overlaps. Overlap reduction removes a repair when it occurs the same year as a replacement.

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost	
Maintenance and repair special ground system	4	1.00 Ea.	\$21.59	\$27.05	7.0000	7	7	\$189.36	\$189.36	
Replace special ground system	50	1.00 M.L.F.	\$1,865.81	\$2,278.85	0.5600	0	0	\$0.00	\$0.00	
Remove old insulation & replace with new, pipe 1-1/2", wall 3/4"	15	2,400.00 L.F.	\$34,648.01	\$42,047.37	1.8667	1	1	\$42,047.37	\$42,047.37	
Insp/chk pump/mtr oper, lub, chk align circulation pump, 3 HP	0.5	2.00 Ea.	\$25.94	\$32.44	56.0000	56	56	\$1,816.70	\$1,816.70	
Replace pump / motor assembly circulation pump, 3 HP	20	2.00 Ea.	\$23,831.47	\$27,281.86	1.4000	1	1	\$27,281.86	\$27,281.86	
Overhaul water meter	13	1.00 Ea.	\$24.50	\$30.39	2.1538	2	2	\$60.78	\$60.78	
Remove old meter, install new water meter 8"	25	1.00 Ea.	\$14,468.51	\$16,734.98	1.1200	1	1	\$16,734.98	\$16,734.98	
Refill expansion tank	5	1.00 Ea.	\$14.83	\$18.54	5.6000	5	5	\$92.72	\$92.72	
Replace expansion tank, 400 gal capacity	50	1.00 Ea.	\$14,204.85	\$16,227.38	0.5600	0	0	\$0.00	\$0.00	
Replace old valve, non-drain, 10"	10	5.00 Ea.	\$48,978.25	\$56,345.24	2.8000	2	2	\$112,690.47	\$112,690.47	
General maintenance & repair distribution: gutters, pipe	1	0.24 M.L.F.	\$72.49	\$90.66	28.0000	28	28	\$2,538.36	\$2,538.36	
			\$138,156.25	\$161,114.76				MR Subtotal	\$203,452.60	
									MR Per Year	\$7,266.16
									PM Total	\$740.74
									Subtotal	\$8,006.90
									Total Per Unit	\$3.34

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Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Valve, check, above 4", annualized	1.00	0.26	\$5.86	\$12.95	\$0.00	\$18.81	\$23.29	\$28.05
Valve, motor operated, above 4", annualized	2.00	2.00	\$46.51	\$100.43	\$0.00	\$146.94	\$181.72	\$218.83
Valve, pressure relief, above 4", annualized	2.00	0.30	\$11.22	\$14.89	\$0.00	\$26.11	\$31.70	\$37.85
Valve, sediment strainer, above 4", annualized	1.00	0.31	\$5.61	\$15.77	\$0.00	\$21.38	\$26.67	\$32.25
Controls, central system, electro/pneumatic, annualized	1.00	1.92	\$70.77	\$115.41	\$0.00	\$186.18	\$227.88	\$273.12
Cathodic protection system, annualized	1.00	1.46	\$19.33	\$79.05	\$0.00	\$98.38	\$124.03	\$150.64
						\$497.81	\$615.29	\$740.74

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Modeled Component List CostWorks Release 2021 Qtr 3

D50 Electrical		
Special Ground System		1.0 M.L.F.
D20 Plumbing		
Water Meter		1.0 Ea.
Valve, Non-Drain, 10"		5.0 Ea.
G40 Site Electrical Utilities		
Cathodic Protection, annualized		1.0 Each

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Sustainment by Year
CostWorks Release 2021 Qtr 3

