

**FAC 4122 LIQUID OXYGEN STORAGE**

FY24 SUC:	\$0.91 / SF
Source:	Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 4122 LIQUID OXYGEN STORAGE

Release 2023 Qtr 4  
Zip Code Prefix 222  
Type MR

UM SF  
Design Life 24  
Average Size 1937.075079

SUC \$0.91

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	
Minor metal roof finish repairs, 2% of roof area, metal panel roofing	5	32.32 S.F.	\$149.39	\$177.53	4.8000	4	4	\$710.13	\$710.13	
Minor metal roof panel replacement, 2.5% of roof area	20	40.40 S.F.	\$520.27	\$616.75	1.2000	1	1	\$616.75	\$616.75	
Total metal roof panel replacement	30	16.16 Sq.	\$14,300.60	\$16,953.17	0.8000	0	0	\$0.00	\$0.00	
Rebuild 4" diameter reduced pressure backflow preventer	10	1.00 Ea.	\$921.17	\$1,072.81	2.4000	2	2	\$2,145.63	\$2,145.63	
Inspect sprinkler system	1	1.00 Ea.	\$36.17	\$45.28	24.0000	24	24	\$1,086.83	\$1,086.83	
Replace sprinkler head	20	10.00 Ea.	\$876.48	\$1,081.52	1.2000	1	1	\$1,081.52	\$1,081.52	
Maintenance and inspection lighting panel, indoor	3	1.00 Ea.	\$42.34	\$53.05	8.0000	8	8	\$424.41	\$424.41	
Replace incandescent lighting fixture lamp for explosion proof fixture	5	10.00 Ea.	\$239.33	\$289.28	4.8000	4	4	\$1,157.11	\$1,157.11	
Repair smoke detector	10	4.00 Ea.	\$232.04	\$287.33	2.4000	2	2	\$574.66	\$574.66	
Check operation smoke detector	1	4.00 Ea.	\$68.00	\$85.20	24.0000	24	24	\$2,044.76	\$2,044.76	
Replace smoke detector	15	4.00 Ea.	\$1,210.21	\$1,444.87	1.6000	1	1	\$1,444.87	\$1,444.87	
Check and repair manual pull station	10	1.00 Ea.	\$89.88	\$110.75	2.4000	2	2	\$221.49	\$221.49	
			\$18,685.89	\$22,217.55				MR Subtotal	\$11,508.17	
									MR Per Year	\$479.51
									PM Total	\$1,289.41
									Subtotal	\$1,768.92
									Total Per Unit	\$0.91

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UM SF

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Design Life 24

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Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Extinguishing system, wet pipe, annualized	1.00	11.34	\$49.59	\$710.68	\$0.00	\$760.27	\$978.43	\$1,199.07
Door, emergencyegress, swinging, annualized	1.00	0.26	\$16.76	\$11.48	\$0.00	\$28.25	\$33.37	\$39.33
Backflow prevention device, up to 4", annualized	1.00	0.33	\$14.02	\$20.93	\$0.00	\$34.94	\$42.62	\$51.01
						\$823.46	\$1,054.42	\$1,289.41



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**Modeled Component List**  
**CostWorks Release 2023 Qtr 4**

B30 Roofing

Metal Steep Roofing	16.16 Sq.
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D40 Fire Protection

Backflow Preventer	1.0 Ea.
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Sprinkler System, Fire Suppression, sprinkler head	10.0 Ea.
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D50 Electrical

Load Center, 100 A, maintenance & inspection	1.0 Ea.
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Explosion-Proof Fixture	10.0 Ea.
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Smoke Detector	4.0 Ea.
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Sustainment by Year  
CostWorks Release 2023 Qtr 4

