

FAC 4122 LIQUID OXYGEN STORAGE

FY22 SUC:	\$1.04 / SF
Source:	Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 4122 LIQUID OXYGEN STORAGE

Release 2021 Qtr 3
Zip Code Prefix 222
Type MR

UM SF
Design Life 24
Average Size 1616.0

SUC \$1.04

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.	\$112.90	\$135.45	4.8000	4	4	\$541.81	\$541.81
Minor metal roof panel replacement, 2.5% of roof area	20	40.40 S.F.	\$461.68	\$548.31	1.2000	1	1	\$548.31	\$548.31
Total metal roof panel replacement	30	16.16 Sq.	\$13,657.57	\$16,176.42	0.8000	0	0	\$0.00	\$0.00
Rebuild 4" diameter reduced pressure backflow preventer	10	1.00 Ea.	\$664.67	\$779.78	2.4000	2	2	\$1,559.57	\$1,559.57
Inspect sprinkler system	1	1.00 Ea.	\$34.33	\$42.93	24.0000	24	24	\$1,030.29	\$1,030.29
Replace sprinkler head	20	10.00 Ea.	\$855.23	\$1,051.90	1.2000	1	1	\$1,051.90	\$1,051.90
Maintenance and inspection lighting panel, indoor	3	1.00 Ea.	\$40.64	\$50.92	8.0000	8	8	\$407.37	\$407.37
Replace incandescent lighting fixture lamp for explosion proof fixture	5	10.00 Ea.	\$194.32	\$237.27	4.8000	4	4	\$949.06	\$949.06
Repair smoke detector	10	4.00 Ea.	\$225.55	\$278.86	2.4000	2	2	\$557.71	\$557.71
Check operation smoke detector	1	4.00 Ea.	\$64.78	\$81.16	24.0000	24	24	\$1,947.75	\$1,947.75
Replace smoke detector	15	4.00 Ea.	\$1,136.95	\$1,357.85	1.6000	1	1	\$1,357.85	\$1,357.85
Check and repair manual pull station	10	1.00 Ea.	\$87.70	\$107.83	2.4000	2	2	\$215.66	\$215.66
			\$17,536.30	\$20,848.67					
							MR Subtotal		\$10,167.27
							MR Per Year		\$423.64
							PM Total		\$1,254.59
							Subtotal		\$1,678.23
							Total Per Unit		\$1.04

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UM SF

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Design Life 24

Type PM

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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	\$68.24	\$678.37	\$0.00	\$746.61	\$956.95	\$1,170.70
Door, emergencyegress, swinging, annualized	1.00	0.26	\$14.59	\$10.75	\$0.00	\$25.34	\$30.03	\$35.44
Backflow prevention device, up to 4", annualized	1.00	0.33	\$13.40	\$19.82	\$0.00	\$33.22	\$40.50	\$48.46
						\$805.17	\$1,027.48	\$1,254.59

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Modeled Component List
CostWorks Release 2021 Qtr 3

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 2021 Qtr 3

