

FAC 2221 MISSILE PRODUCTION PLANT

FY24 SUC: \$3.62 / SF
Source: Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 2221 MISSILE PRODUCTION PLANT

SUC \$3.62

Release 2023 Qtr 4
Zip Code Prefix 222
Type MR

UM SF
Design Life 55
Average Size 15703.487179

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
Rebuild flush valve for a urinal	20	4.00 Ea.	\$767.52	\$925.08	2.7500	2	2	\$1,850.15	\$1,850.15
Replace fluorescent light fixture ballast, 80 W	10	25.00 Ea.	\$2,615.15	\$3,224.77	5.5000	5	5	\$16,123.85	\$16,123.85
Replace lamps (2 lamps), 4', 34 W energy saver	10	25.00 Ea.	\$662.14	\$829.22	5.5000	5	5	\$4,146.12	\$4,146.12
Replace metal halide ballast, 175 W	10	35.00 Ea.	\$5,841.04	\$6,991.75	5.5000	5	5	\$34,958.77	\$34,958.77
Replace metal halide fixture lamp, 175 W	5	35.00 Ea.	\$1,998.39	\$2,432.20	11.0000	11	11	\$26,754.25	\$26,754.25
Repair smoke detector	10	41.00 Ea.	\$2,378.42	\$2,945.13	5.5000	5	4	\$14,725.67	\$11,780.54
Check operation smoke detector	1	41.00 Ea.	\$697.04	\$873.29	55.0000	55	55	\$48,030.68	\$48,030.68
Replace smoke detector	15	41.00 Ea.	\$12,404.65	\$14,809.96	3.6667	3	3	\$44,429.87	\$44,429.87
Check and repair manual pull station	10	4.00 Ea.	\$359.53	\$442.99	5.5000	5	4	\$2,214.94	\$1,771.95
Replace manual pull station	15	4.00 Ea.	\$835.03	\$1,007.05	3.6667	3	3	\$3,021.15	\$3,021.15
Minor repairs to fire alarm control panel	5	1.00 Ea.	\$149.42	\$182.60	11.0000	11	11	\$2,008.55	\$2,008.55
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$45.50	\$57.01	110.0000	110	110	\$6,271.12	\$6,271.12
Replace fire alarm control panel	15	1.00 Ea.	\$2,196.12	\$2,675.47	3.6667	3	3	\$8,026.42	\$8,026.42
Replace fire alarm bell, 6"	20	10.00 Ea.	\$1,806.06	\$2,197.72	2.7500	2	2	\$4,395.43	\$4,395.43
Maintenance and repair electrical service ground	25	1.00 M.L.F.	\$92.28	\$115.32	2.2000	2	2	\$230.64	\$230.64
Replace electrical service ground	50	1.00 M.L.F.	\$4,504.18	\$5,489.97	1.1000	1	1	\$5,489.97	\$5,489.97
Maintenance and repair building structure ground	7	1.00 M.L.F.	\$92.28	\$115.32	7.8571	7	7	\$807.25	\$807.25
Replace building structure ground	50	1.00 M.L.F.	\$5,386.63	\$6,531.10	1.1000	1	1	\$6,531.10	\$6,531.10
Maintenance and repair of general wiring lightning protection system	1	1.00 M.L.F.	\$109.50	\$134.89	55.0000	55	55	\$7,418.77	\$7,418.77
Replace lightning protection general wiring system	25	1.00 M.L.F.	\$12,548.36	\$14,875.43	2.2000	2	2	\$29,750.85	\$29,750.85
Maintenance and repair lightning ground rod	1	1.00 Ea.	\$92.28	\$115.32	55.0000	55	53	\$6,342.69	\$6,112.04
Replace lightning ground rod	25	1.00 Ea.	\$245.60	\$303.67	2.2000	2	2	\$607.34	\$607.34
Replace lamp emergency lighting fixture	2	24.00 Ea.	\$1,307.83	\$1,580.52	27.5000	27	27	\$42,674.07	\$42,674.07
Maintenance and repair exit light	20	24.00 Ea.	\$923.77	\$1,144.09	2.7500	2	2	\$2,288.19	\$2,288.19
Replace lamp exit light	5	24.00 Ea.	\$392.32	\$466.53	11.0000	11	11	\$5,131.79	\$5,131.79
Maintenance and inspection UPS battery	0.17	1.00 Ea.	\$68.26	\$85.52	323.5294	323	323	\$27,621.43	\$27,621.43
Replace motor generator UPS battery	15	1.00 Ea.	\$1,066.21	\$1,264.47	3.6667	3	3	\$3,793.40	\$3,793.40
Maintenance and repair voice/data outlet	10	14.00 Ea.	\$760.52	\$949.78	5.5000	5	5	\$4,748.91	\$4,748.91
Replace voice/data outlet	20	14.00 Ea.	\$372.31	\$454.21	2.7500	2	2	\$908.42	\$908.42
Maintenance and inspection patch panel	0.5	1.00 Ea.	\$91.01	\$114.02	110.0000	110	110	\$12,542.24	\$12,542.24
Replace glove box gloves	5	1.00 Ea.	\$391.73	\$457.39	11.0000	11	11	\$5,031.31	\$5,031.31
Replace fume hood sash	20	1.00 Ea.	\$1,259.84	\$1,446.35	2.7500	2	2	\$2,892.71	\$2,892.71
Remove and replace hydraulic dock leveler lift cylinder	15	1.00 Ea.	\$7,980.83	\$9,088.67	3.6667	3	3	\$27,266.00	\$27,266.00

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Remove and replace 50 HP pump motor	25	1.00 Ea.	\$9,015.62	\$10,299.87	2.2000	2	2	\$20,599.73	\$20,599.73
Repair central station A.H.U., 16,000 CFM	10	1.00 Ea.	\$2,244.53	\$2,591.25	5.5000	5	4	\$12,956.25	\$10,365.00
Replace central station A.H.U., 16,000 CFM	15	1.00 Ea.	\$74,641.96	\$85,855.33	3.6667	3	3	\$257,565.99	\$257,565.99
Inspect sprinkler system	1	1.00 Ea.	\$36.17	\$45.28	55.0000	55	55	\$2,490.64	\$2,490.64
Replace sprinkler head	20	50.00 Ea.	\$4,382.39	\$5,407.59	2.7500	2	2	\$10,815.19	\$10,815.19
Maintenance and repair motor starter, up to 600 V	5	1.00 Ea.	\$262.82	\$319.49	11.0000	11	11	\$3,514.44	\$3,514.44
Maintenance and inspection motor starter, up to 600 V	0.5	1.00 Ea.	\$56.88	\$71.26	110.0000	110	110	\$7,838.90	\$7,838.90
Replace starter motor starter, up to 600 V	18	1.00 Ea.	\$841.02	\$1,000.75	3.0556	3	3	\$3,002.24	\$3,002.24
Maintenance and inspection lighting panel, indoor	3	2.00 Ea.	\$84.69	\$106.10	18.3333	18	18	\$1,909.84	\$1,909.84
Maintenance and repair safety switch, 3 pole safety switch, heavy duty	8	3.00 Ea.	\$127.03	\$159.15	6.8750	6	6	\$954.92	\$954.92
Maintenance and inspection safety switch, 3 pole, heavy duty	1	3.00 Ea.	\$127.03	\$159.15	55.0000	55	55	\$8,753.44	\$8,753.44
Replace safety switch, heavy duty 30 A	25	3.00 Ea.	\$2,029.89	\$2,418.70	2.2000	2	2	\$4,837.41	\$4,837.41
Replace incandescent lighting fixture lamp for explosion proof fixture	5	12.00 Ea.	\$287.19	\$347.13	11.0000	11	11	\$3,818.48	\$3,818.48
Replace incan. lighting fixture, explosion proof, ceiling mtd., 200 W	20	12.00 Ea.	\$26,713.97	\$30,707.04	2.7500	2	2	\$61,414.08	\$61,414.08
Replace water heater, electric, 120 gallon	15	1.00 Ea.	\$16,477.14	\$18,839.91	3.6667	3	3	\$56,519.72	\$56,519.72
Unclog floor drain, PVC	20	1.00 Ea.	\$50.45	\$63.16	2.7500	2	2	\$126.31	\$126.31
General maintenance & repair drain: roof, scupper, area	1	5.00 Ea.	\$195.90	\$245.23	55.0000	55	55	\$13,487.91	\$13,487.91
Replace drain: roof, scupper, area	40	5.00 Ea.	\$5,651.87	\$6,519.25	1.3750	1	1	\$6,519.25	\$6,519.25
Repair boiler, gas, 250 MBH	7	2.00 Ea.	\$5,517.76	\$6,444.82	7.8571	7	7	\$45,113.72	\$45,113.72
Replace boiler, gas, 250 MBH	30	2.00 Ea.	\$19,232.42	\$22,976.71	1.8333	1	1	\$22,976.71	\$22,976.71
Replace roof mounted exhaust fan, 8500 CFM exhaust fan	20	1.00 Ea.	\$4,297.06	\$4,984.96	2.7500	2	2	\$9,969.92	\$9,969.92
Repair circulator pump, 1/12 - 3/4 H.P.	5	1.00 Ea.	\$103.47	\$122.05	11.0000	11	8	\$1,342.57	\$976.41
Replace circulator pump, 1/12 - 3/4 H.P.	15	1.00 Ea.	\$3,796.05	\$4,376.03	3.6667	3	3	\$13,128.10	\$13,128.10
Repair terminal reheat, 18" x 24" coil	10	2.00 Ea.	\$218.98	\$274.13	5.5000	5	5	\$1,370.63	\$1,370.63
Replace terminal reheat, 18" x 24" coil	15	2.00 Ea.	\$4,548.53	\$5,231.25	3.6667	3	3	\$15,693.75	\$15,693.75
Repair single zone rooftop unit, 60 ton	10	1.00 Ea.	\$79,616.79	\$93,003.20	5.5000	5	4	\$465,016.02	\$372,012.81
Replace single zone rooftop unit, 60 ton	15	1.00 Ea.	\$95,941.66	\$112,197.55	3.6667	3	3	\$336,592.65	\$336,592.65
Unplug line urinal	5	4.00 Ea.	\$610.57	\$764.33	11.0000	11	11	\$8,407.59	\$8,407.59
Replace wall-hung urinal	35	4.00 Ea.	\$4,350.08	\$5,232.19	1.5714	1	1	\$5,232.19	\$5,232.19
Replace washer in spud connection lavatory, vitreous china	7	10.00 Ea.	\$173.21	\$211.41	7.8571	7	7	\$1,479.86	\$1,479.86
Replace washer in faucet lavatory, vitreous china	2	10.00 Ea.	\$135.67	\$169.17	27.5000	27	27	\$4,567.64	\$4,567.64

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Replace faucets lavatory, vitreous china	10	10.00 Ea.	\$1,954.72	\$2,351.21	5.5000	5	5	\$11,756.07	\$11,756.07
Clean out strainer and P trap lavatory, vitreous china	2	10.00 Ea.	\$368.19	\$460.91	27.5000	27	27	\$12,444.49	\$12,444.49
Replace lavatory, vitreous china	35	10.00 Ea.	\$7,187.23	\$8,634.06	1.5714	1	1	\$8,634.06	\$8,634.06
Replace faucet washer sink, iron enamel	2	2.00 Ea.	\$26.90	\$33.54	27.5000	27	27	\$905.55	\$905.55
Clean trap sink, iron enamel	3	2.00 Ea.	\$18.01	\$22.55	18.3333	18	18	\$405.87	\$405.87
Replace faucets sink, iron enamel	10	2.00 Ea.	\$390.94	\$470.24	5.5000	5	5	\$2,351.21	\$2,351.21
Unstop sink, iron enamel	2	2.00 Ea.	\$88.02	\$110.19	27.5000	27	27	\$2,975.07	\$2,975.07
Replace sink, P.E.C.I. sink, iron enamel kitchen	10	2.00 Ea.	\$2,416.86	\$2,818.55	5.5000	5	5	\$14,092.76	\$14,092.76
Replace faucet washer sink, laboratory	2	4.00 Ea.	\$53.80	\$67.08	27.5000	27	27	\$1,811.09	\$1,811.09
Replace faucets laundry sink, plastic	10	4.00 Ea.	\$781.89	\$940.49	5.5000	5	5	\$4,702.43	\$4,702.43
Inspect and clean shower head emergency shower station	3	1.00 Ea.	\$51.54	\$64.51	18.3333	18	18	\$1,161.24	\$1,161.24
Replace shower emergency shower station	25	1.00 Ea.	\$1,053.08	\$1,259.15	2.2000	2	2	\$2,518.30	\$2,518.30
Inspect and clean spray heads, emergency eye wash	3	1.00 Ea.	\$51.54	\$64.51	18.3333	18	18	\$1,161.24	\$1,161.24
Replace eye wash station, emergency eye wash	25	1.00 Ea.	\$785.91	\$955.55	2.2000	2	2	\$1,911.10	\$1,911.10
Resolder joint pipe & fittings, copper	10	13.00 Ea.	\$651.72	\$803.98	5.5000	5	5	\$4,019.91	\$4,019.91
Replace pipe and fittings, copper 3/4"	20	32.00 L.F.	\$799.91	\$969.47	2.7500	2	2	\$1,938.94	\$1,938.94
Replace pipe and fittings, copper 2"	25	16.00 L.F.	\$838.84	\$1,008.95	2.2000	2	2	\$2,017.90	\$2,017.90
Replace old valve, non-drain, 2"	10	1.00 Ea.	\$1,208.68	\$1,386.45	5.5000	5	5	\$6,932.24	\$6,932.24
Drain and flush water heater, electric, 120 gallon	7	1.00 Ea.	\$309.15	\$387.00	7.8571	7	7	\$2,709.00	\$2,709.00
Check operation water heater, electric, 120 gallon	3	1.00 Ea.	\$2.72	\$3.40	18.3333	18	18	\$61.19	\$61.19
Repair clay brick wall, 1st floor	25	435.00 S.F.	\$19,683.37	\$24,194.02	2.2000	2	2	\$48,388.04	\$48,388.04
Repair 3'-9" x 5'-5" steel frame window - 2nd floor.	20	26.00 Ea.	\$9,723.69	\$11,504.14	2.7500	2	2	\$23,008.28	\$23,008.28
Finish new 3'-9" x 5'-5" steel frame window - 2nd floor.	45	26.00 Ea.	\$3,837.63	\$4,759.93	1.2222	1	1	\$4,759.93	\$4,759.93
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	5.10 S.F.	\$67.06	\$78.75	55.0000	55	55	\$4,331.06	\$4,331.06
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	46.00 Ea.	\$7,190.41	\$8,568.49	2.7500	2	2	\$17,136.97	\$17,136.97
Repair steel, painted, door	14	4.00 Ea.	\$2,809.34	\$3,336.77	3.9286	3	3	\$10,010.31	\$10,010.31
Refinish 3'-0" x 7'-0" steel, painted, door	4	4.00 Ea.	\$184.22	\$225.58	13.7500	13	13	\$2,932.60	\$2,932.60
Replace 3'-0" x 7'-0" steel, painted, door	45	4.00 Ea.	\$3,668.44	\$4,247.70	1.2222	1	1	\$4,247.70	\$4,247.70
Repair 12' x 12' steel roll-up door	10	2.00 Ea.	\$1,402.23	\$1,666.45	5.5000	5	5	\$8,332.24	\$8,332.24
Refinish 12' x 12' steel roll-up door	5	2.00 Ea.	\$460.73	\$561.90	11.0000	11	11	\$6,180.91	\$6,180.91
Replace 12' x 12' steel roll-up door	35	2.00 Ea.	\$5,608.93	\$6,665.79	1.5714	1	1	\$6,665.79	\$6,665.79
Debris removal, by hand and visual inspection, metal panel roofing	1	0.17 M.S.F.	\$4.27	\$5.21	55.0000	55	55	\$286.46	\$286.46

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	308.00 S.F.	\$1,423.60	\$1,691.83	11.0000	11	11	\$18,610.15	\$18,610.15	
Metal roof flashing replacement, 2 SF/sq repaired, metal panel roofing	1	16.00 S.F.	\$404.92	\$483.94	55.0000	55	55	\$26,616.75	\$26,616.75	
Minor metal roof panel replacement, 2.5% of roof area	20	326.00 S.F.	\$4,198.23	\$4,976.78	2.7500	2	2	\$9,953.55	\$9,953.55	
Total metal roof panel replacement	30	156.00 Sq.	\$138,050.33	\$163,656.81	1.8333	1	1	\$163,656.81	\$163,656.81	
Repair 8" concrete block wall - (2% of walls) painted	25	1.50 C.S.F.	\$1,717.37	\$2,065.64	2.2000	2	2	\$4,131.28	\$4,131.28	
Refinish concrete block wall painted	4	50.20 C.S.F.	\$5,958.26	\$7,203.36	13.7500	13	13	\$93,643.65	\$93,643.65	
Repair steel painted interior door	14	6.00 Ea.	\$1,673.93	\$1,954.09	3.9286	3	3	\$5,862.28	\$5,862.28	
Replace 3'-0" x 7'-0" steel painted interior door	60	6.00 Ea.	\$7,677.29	\$8,903.50	0.9167	0	0	\$0.00	\$0.00	
Repair solid core wood door, interior	11	7.00 Ea.	\$1,952.92	\$2,279.78	5.0000	5	5	\$11,398.88	\$11,398.88	
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	7.00 Ea.	\$308.10	\$379.66	13.7500	13	12	\$4,935.64	\$4,555.97	
Replace 3'-0" x 7'-0" solid core wood door, interior	40	7.00 Ea.	\$3,965.85	\$4,578.68	1.3750	1	1	\$4,578.68	\$4,578.68	
Repair 5/8" drywall - (2% of walls)	20	39.30 S.F.	\$65.67	\$80.25	2.7500	2	2	\$160.50	\$160.50	
Replace 5/8" drywall	75	1,965.00 S.F.	\$4,642.93	\$5,701.59	0.7333	0	0	\$0.00	\$0.00	
Refinish concrete floor finished	25	42.30 C.S.F.	\$17,621.22	\$21,260.77	2.2000	2	2	\$42,521.54	\$42,521.54	
Acoustic tile repairs - (2% of ceilings)	9	0.40 C.S.F.	\$369.51	\$429.89	6.1111	6	6	\$2,579.35	\$2,579.35	
Replace acoustic tile ceiling, fire-rated	20	12.80 C.S.F.	\$6,667.88	\$7,880.93	2.7500	2	2	\$15,761.85	\$15,761.85	
Replace flush valve diaphragm tankless water closet	10	10.00 Ea.	\$272.64	\$338.56	5.5000	5	5	\$1,692.80	\$1,692.80	
Rebuild flush valve tankless water closet	20	10.00 Ea.	\$1,918.81	\$2,312.69	2.7500	2	2	\$4,625.38	\$4,625.38	
Unplug clogged line tankless water closet	5	10.00 Ea.	\$2,299.29	\$2,878.32	11.0000	11	11	\$31,661.48	\$31,661.48	
Replace tankless water closet	35	10.00 Ea.	\$14,165.54	\$16,383.21	1.5714	1	1	\$16,383.21	\$16,383.21	
Replace tankless flush valve	25	10.00 Ea.	\$2,702.43	\$3,172.18	2.2000	2	2	\$6,344.35	\$6,344.35	
Replace wax ring gasket for tankless water closet	5	10.00 Ea.	\$1,491.65	\$1,865.53	11.0000	11	11	\$20,520.88	\$20,520.88	
Replace flush valve diaphragm for a urinal	7	4.00 Ea.	\$109.06	\$135.42	7.8571	7	7	\$947.97	\$947.97	
			\$725,547.97	\$854,710.20				MR Subtotal	\$2,424,468.07	
									MR Per Year	\$43,964.06
									PM Total	\$12,875.82
									Subtotal	\$56,839.88
									Total Per Unit	\$3.62

FAC 2221 MISSILE PRODUCTION PLANT

SUC \$3.62

Release 2023 Qtr 4

UM SF

Zip Code Prefix 222

Design Life 55

Type PM

Average Size 15703.487179

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Drink fountain, annualized	4.00	2.48	\$149.78	\$132.54	\$0.00	\$282.32	\$337.06	\$399.29
Boiler, hot water, oil, gas, or comb. fired, 120 - 500 MBH, annualized	2.00	31.76	\$177.10	\$2,005.60	\$0.00	\$2,182.70	\$2,802.09	\$3,430.34
Air handling unit, 3 thru 24 tons, annualized	1.00	2.06	\$159.90	\$109.87	\$0.00	\$269.77	\$318.72	\$375.67
VAV Boxes, annualized	8.00	7.47	\$87.03	\$470.88	\$0.00	\$557.91	\$707.88	\$862.20
Package unit, air cooled, 25 thru 50 ton, annualized	1.00	3.25	\$166.98	\$204.92	\$0.00	\$371.90	\$450.07	\$536.60
Extinguishing system, deluge / preaction, annualized	1.00	11.59	\$49.59	\$728.12	\$0.00	\$777.71	\$1,001.10	\$1,226.98
Circuit breaker, high voltage air, annualized	6.00	2.82	\$82.98	\$194.86	\$0.00	\$277.83	\$344.59	\$415.49
Transformer, dry type 500 KVA and over, annualized	4.00	3.08	\$55.32	\$214.45	\$0.00	\$269.76	\$339.63	\$412.26
Panelboard, 225 A and above, annualized	2.00	0.88	\$44.00	\$60.83	\$0.00	\$104.83	\$127.48	\$152.33
Fire alarm annunciator system, annualized	1.00	11.05	\$163.44	\$695.92	\$0.00	\$859.36	\$1,084.48	\$1,317.78
Security, intrusion alarm system, annualized	1.00	3.83	\$149.07	\$241.25	\$0.00	\$390.32	\$477.61	\$572.34
Hydraulic lift, loading dock, annualized	2.00	3.26	\$48.55	\$117.80	\$0.00	\$166.35	\$206.55	\$249.17
Crane, electric bridge, over 15 tons, annualized	1.00	8.27	\$388.40	\$306.28	\$0.00	\$694.68	\$825.40	\$975.55
Crane, manual bridge, up to 5 ton, annualized	1.00	0.93	\$120.40	\$34.46	\$0.00	\$154.86	\$177.24	\$205.64
Vacuum, annualized	1.00	1.23	\$25.25	\$44.47	\$0.00	\$69.72	\$85.58	\$102.71
Door, emergency egress, swinging, annualized	4.00	1.04	\$67.05	\$45.93	\$0.00	\$112.99	\$133.47	\$157.31
Shutter, roll up, electric, annualized	2.00	4.10	\$17.02	\$180.72	\$0.00	\$197.74	\$253.66	\$310.43
Fire doors, swinging, annualized	8.00	3.14	\$125.32	\$123.65	\$0.00	\$248.97	\$298.60	\$354.49
Urinals, annualized	4.00	0.91	\$26.51	\$48.66	\$0.00	\$75.17	\$92.42	\$111.00
Toilet (vacuum breaker type), annualized	10.00	1.77	\$88.55	\$94.61	\$0.00	\$183.16	\$220.40	\$262.07
Lavatories, annualized	10.00	3.48	\$77.92	\$218.00	\$0.00	\$295.92	\$369.12	\$446.21
						\$8,543.99	\$10,653.15	\$12,875.82

FAC 2221 MISSILE PRODUCTION PLANT

Modeled Component List

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D50 Electrical

Smoke Detector	41.0 Ea.
Manual Pull Station	4.0 Ea.
Fire Alarm Control Panel	1.0 Ea.
Fire Alarm Bell	10.0 Ea.
Electrical Service Ground	1.0 M.L.F.
Building Structure Ground	1.0 M.L.F.
Lightning Protection System	1.0 M.L.F.
Lightning Ground Rod	1.0 Ea.
UPS Battery, maintenance & inspection	1.0 Ea.
UPS Battery, replace motor	1.0 Ea.
Motor Starter, Up To 600 V	1.0 Ea.
Load Center, 100 A, maintenance & inspection	2.0 Ea.
Safety Switch, Heavy Duty	3.0 Ea.
Explosion-Proof Fixture	12.0 Ea.

D30 HVAC

Central Station Air Conditioning Air Handling Unit, 16,000 CFM	1.0 Ea.
Boiler, Gas, 250 MBH	2.0 Ea.
Exhaust Fan, roof mounted exhaust fan, 8500 CFM exhaust	1.0 Ea.
Circulator Pump, 1/12 - 3/4 H.P.	1.0 Ea.
Terminal Reheat Coil, 18" x 24"	2.0 Ea.
Single Zone Air Conditioner, 60 ton	1.0 Ea.
VAV Box	8.0 Each

D40 Fire Protection

Sprinkler System, Fire Suppression, sprinkler head	50.0 Ea.
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D20 Plumbing

Water Heater, Electric, 120 Gallon	1.0 Ea.
Drain: Roof, Scupper, Area	5.0 Ea.
Urinal	4.0 Ea.
Lavatory, Vitreous China	10.0 Ea.
Sink, Iron Enamel	2.0 Ea.
Emergency Shower Station	1.0 Ea.
Emergency Eye Wash	1.0 Ea.
Valve, Non-Drain, 2"	1.0 Ea.
Tankless Water Closet	10.0 Ea.

B20 Exterior Enclosure

Steel, Painted	4.0 Ea.
Steel Single, Roll-Up	2.0 Ea.

B30 Roofing

Metal Steep Roofing	156.0 Sq.
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C10 Interior Construction

Concrete Block, Painted	50.2 C.S.F.
Steel Painted Interior Doors	6.0 Ea.
Solid Core Interior Doors	7.0 Ea.
Fire Doors, Swinging, annualized	8.0 Each

C30 Interior Finishes

Drywall	1965.0 S.F.
Concrete, Finished	42.3 C.S.F.
Acoustic Tile, fire-rated	12.8 C.S.F.

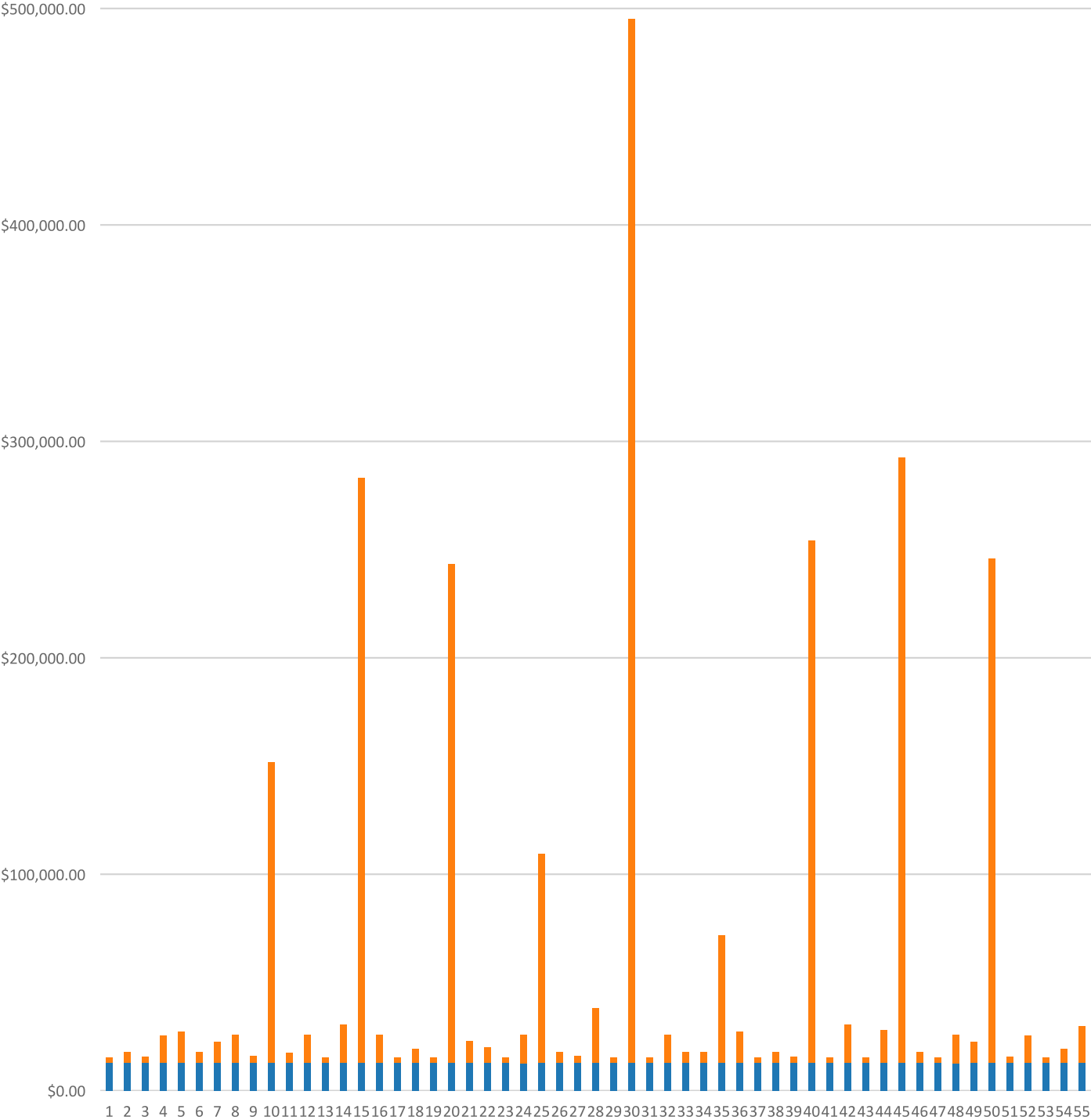
E10 Equipment

Hydraulic Lift, Loading Dock, annualized	2.0 Each
Crane, Electric, over 15 ton, annualized	1.0 Each

Crane, Manual, up to 5 ton, annualized

1.0 Each

FAC 2221 MISSILE PRODUCTION PLANT
Sustainment by Year
CostWorks Release 2023 Qtr 4



PM Cost
MR Cost