

**FAC 2231 SHIP PRODUCTION PLANT**

FY24 SUC:                \$3.33 / SF  
Source:                 Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 2231 SHIP PRODUCTION PLANT

SUC \$3.33

Release 2023 Qtr 4  
Zip Code Prefix 222  
Type MR

UM SF  
Design Life 55  
Average Size 28819.0

Adjusted Occurrences 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
Total metal roof panel replacement	30	288.00 Sq.	\$254,862.15	\$302,135.65	1.8333	1	1	\$302,135.65	\$302,135.65
Repair 8" concrete block wall - (2% of walls) painted	25	1.60 C.S.F.	\$1,831.86	\$2,203.35	2.2000	2	2	\$4,406.70	\$4,406.70
Refinish concrete block wall painted	4	82.60 C.S.F.	\$9,803.83	\$11,852.54	13.7500	13	13	\$154,082.98	\$154,082.98
Repair steel painted interior door	14	4.00 Ea.	\$1,115.95	\$1,302.73	3.9286	3	3	\$3,908.19	\$3,908.19
Refinish 3'-0" x 7'-0" steel painted interior door	4	4.00 Ea.	\$230.61	\$283.51	13.7500	13	13	\$3,685.62	\$3,685.62
Replace 3'-0" x 7'-0" steel painted interior door	60	4.00 Ea.	\$5,118.19	\$5,935.67	0.9167	0	0	\$0.00	\$0.00
Repair solid core wood door, interior	11	8.00 Ea.	\$2,231.91	\$2,605.46	5.0000	5	5	\$13,027.29	\$13,027.29
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	8.00 Ea.	\$352.12	\$433.90	13.7500	13	12	\$5,640.73	\$5,206.83
Replace 3'-0" x 7'-0" solid core wood door, interior	40	8.00 Ea.	\$4,532.40	\$5,232.78	1.3750	1	1	\$5,232.78	\$5,232.78
Repair 5/8" drywall - (2% of walls)	20	42.80 S.F.	\$71.52	\$87.40	2.7500	2	2	\$174.79	\$174.79
Replace 5/8" drywall	75	21.40 S.F.	\$50.56	\$62.09	0.7333	0	0	\$0.00	\$0.00
Refinish concrete floor finished	25	59.00 C.S.F.	\$24,578.06	\$29,654.50	2.2000	2	2	\$59,309.00	\$59,309.00
Replace vinyl tile flooring	18	83.70 S.Y.	\$4,276.17	\$5,262.36	3.0556	3	3	\$15,787.08	\$15,787.08
Repair gypsum board ceiling - (2% of ceilings)	20	0.20 C.S.F.	\$76.84	\$94.36	2.7500	2	2	\$188.72	\$188.72
Replace gypsum board ceiling, up to 12' high	40	12.90 C.S.F.	\$5,084.00	\$6,244.74	1.3750	1	1	\$6,244.74	\$6,244.74
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 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	5.00 Ea.	\$136.32	\$169.28	7.8571	7	7	\$1,184.96	\$1,184.96
Rebuild flush valve for a urinal	20	5.00 Ea.	\$959.41	\$1,156.34	2.7500	2	2	\$2,312.69	\$2,312.69
Unplug line urinal	5	5.00 Ea.	\$763.21	\$955.41	11.0000	11	11	\$10,509.48	\$10,509.48
Replace wall-hung urinal	35	5.00 Ea.	\$5,437.60	\$6,540.23	1.5714	1	1	\$6,540.23	\$6,540.23
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
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

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
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	35	2.00 Ea.	\$2,416.86	\$2,818.55	1.5714	1	1	\$2,818.55	\$2,818.55
Check / minor repairs drinking fountain	1	4.00 Ea.	\$206.10	\$258.00	55.0000	55	55	\$14,190.02	\$14,190.02
Repair internal leaks drinking fountain	4	4.00 Ea.	\$191.07	\$239.19	13.7500	13	13	\$3,109.44	\$3,109.44
Correct water pressure drinking fountain	2	4.00 Ea.	\$176.04	\$220.38	27.5000	27	27	\$5,950.13	\$5,950.13
Replace refrigerant drinking fountain	2	4.00 Ea.	\$141.62	\$165.72	27.5000	27	27	\$4,474.41	\$4,474.41
Repair drain leak drinking fountain	4	4.00 Ea.	\$116.38	\$140.76	13.7500	13	11	\$1,829.85	\$1,548.33
Replace fountain drinking fountain	10	4.00 Ea.	\$6,483.25	\$7,617.20	5.5000	5	5	\$38,086.02	\$38,086.02
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
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
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
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	6.00 Ea.	\$235.08	\$294.28	55.0000	55	55	\$16,185.49	\$16,185.49
Replace drain: roof, scupper, area	40	6.00 Ea.	\$6,782.24	\$7,823.10	1.3750	1	1	\$7,823.10	\$7,823.10
Repair boiler, gas, 2000 MBH	7	1.00 Ea.	\$5,734.80	\$6,685.15	7.8571	7	7	\$46,796.03	\$46,796.03
Replace boiler, gas, 2000 MBH	30	1.00 Ea.	\$40,588.94	\$47,558.43	1.8333	1	1	\$47,558.43	\$47,558.43
Replace roof mounted exhaust fan, 8500 CFM exhaust fan	20	2.00 Ea.	\$8,594.12	\$9,969.92	2.7500	2	2	\$19,939.83	\$19,939.83
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 circulator pump, 1 H.P.	5	1.00 Ea.	\$103.70	\$122.33	11.0000	11	8	\$1,345.67	\$978.67
Replace circulator. pump, 1 H.P.	15	1.00 Ea.	\$5,632.83	\$6,463.28	3.6667	3	3	\$19,389.85	\$19,389.85
Repair terminal reheat, 36" x 36" coil	10	3.00 Ea.	\$515.25	\$645.00	5.5000	5	5	\$3,225.00	\$3,225.00
Replace terminal reheat, 36" x 36" coil	15	3.00 Ea.	\$11,621.66	\$13,487.91	3.6667	3	3	\$40,463.73	\$40,463.73
Repair single zone rooftop unit, 100 ton	10	1.00 Ea.	\$90,133.83	\$105,260.31	5.5000	5	5	\$526,301.53	\$526,301.53

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Replace single zone rooftop unit, 100 ton	15	1.00 Ea.	\$184,254.03	\$214,523.21	3.6667	3	3	\$643,569.62	\$643,569.62
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
Rebuild 6" diameter reduced pressure backflow preventer	10	1.00 Ea.	\$1,039.67	\$1,216.66	5.5000	5	5	\$6,083.30	\$6,083.30
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	113.00 Ea.	\$9,904.21	\$12,221.16	2.7500	2	2	\$24,442.33	\$24,442.33
Replace fire pump / electric motor assembly 100 H.P.	25	1.00 Ea.	\$48,011.97	\$55,351.32	2.2000	2	2	\$110,702.65	\$110,702.65
Repair switchgear 1200 A mainframe	5	1.00 Ea.	\$1,803.55	\$2,115.75	11.0000	11	9	\$23,273.27	\$19,041.77
Maintenance and inspection switchgear, mainframe	1	1.00 Ea.	\$68.26	\$85.52	55.0000	55	55	\$4,703.34	\$4,703.34
Replace switchgear 1200 A mainframe	20	1.00 Ea.	\$4,250.93	\$5,127.30	2.7500	2	2	\$10,254.60	\$10,254.60
Maintenance and repair motor starter, up to 600 V	5	8.00 Ea.	\$2,102.56	\$2,555.95	11.0000	11	11	\$28,115.49	\$28,115.49
Maintenance and inspection motor starter, up to 600 V	0.5	8.00 Ea.	\$455.04	\$570.10	110.0000	110	110	\$62,711.19	\$62,711.19
Replace starter motor starter, up to 600 V	18	8.00 Ea.	\$6,728.18	\$8,005.97	3.0556	3	3	\$24,017.92	\$24,017.92
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 fluorescent light fixture ballast, 80 W	10	50.00 Ea.	\$5,230.31	\$6,449.54	5.5000	5	5	\$32,247.70	\$32,247.70
Replace lamps (2 lamps), 4', 34 W energy saver	10	50.00 Ea.	\$1,324.29	\$1,658.45	5.5000	5	5	\$8,292.23	\$8,292.23
Replace metal halide ballast, 400 W	10	50.00 Ea.	\$9,594.78	\$11,457.02	5.5000	5	5	\$57,285.11	\$57,285.11
Replace metal halide fixture lamp, 400 W	5	50.00 Ea.	\$3,243.93	\$3,917.46	11.0000	11	11	\$43,092.11	\$43,092.11
Repair smoke detector	10	69.00 Ea.	\$4,002.70	\$4,956.45	5.5000	5	4	\$24,782.23	\$19,825.79
Check operation smoke detector	1	69.00 Ea.	\$1,173.06	\$1,469.67	55.0000	55	55	\$80,832.12	\$80,832.12
Replace smoke detector	15	69.00 Ea.	\$20,876.12	\$24,924.07	3.6667	3	3	\$74,772.21	\$74,772.21
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
Replace lamp emergency lighting fixture	2	11.00 Ea.	\$599.42	\$724.41	27.5000	27	27	\$19,558.95	\$19,558.95
Maintenance and repair exit light	20	11.00 Ea.	\$423.39	\$524.38	2.7500	2	2	\$1,048.75	\$1,048.75
Replace lamp exit light	5	11.00 Ea.	\$179.81	\$213.82	11.0000	11	11	\$2,352.07	\$2,352.07

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost	
Replace EMS, Three Phase, 5 Meters	15	3.00 Ea.	\$42,706.68	\$49,851.25	3.6667	3	3	\$149,553.76	\$149,553.76	
Replace EMS, Mech, BTU, 3 Meters, 3 Duct Sensors, 3 Space Sensors	20	1.00 Ea.	\$15,519.60	\$18,189.23	2.7500	2	2	\$36,378.45	\$36,378.45	
Repair clay brick wall, 1st floor	25	620.00 S.F.	\$28,054.46	\$34,483.43	2.2000	2	2	\$68,966.86	\$68,966.86	
Replace glass - 2nd floor (1% of glass) - steel frame window	1	26.00 S.F.	\$2,946.07	\$3,636.84	55.0000	55	55	\$200,025.93	\$200,025.93	
Repair 3'-9" x 5'-5" steel frame window - 2nd floor.	20	68.00 Ea.	\$25,431.18	\$30,087.75	2.7500	2	2	\$60,175.49	\$60,175.49	
Refinish 3'-9" x 5'-5" steel frame window - 2nd floor.	5	68.00 Ea.	\$10,802.17	\$13,400.86	11.0000	11	11	\$147,409.43	\$147,409.43	
Finish new 3'-9" x 5'-5" steel frame window - 2nd floor.	45	68.00 Ea.	\$10,036.88	\$12,449.05	1.2222	1	1	\$12,449.05	\$12,449.05	
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	5.60 S.F.	\$73.64	\$86.47	55.0000	55	55	\$4,755.67	\$4,755.67	
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	48.00 Ea.	\$7,503.03	\$8,941.03	2.7500	2	2	\$17,882.06	\$17,882.06	
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	
Remove and replace electric bi-folding hangar door motor	15	1.00 Ea.	\$661.73	\$771.95	3.6667	3	3	\$2,315.84	\$2,315.84	
Remove and replace electric bi-folding hangar door cables	15	1.00 Ea.	\$622.70	\$757.58	3.6667	3	3	\$2,272.73	\$2,272.73	
Remove and replace electric bi-folding hangar door	20	1.00 Ea.	\$57,665.62	\$66,804.87	2.7500	2	2	\$133,609.74	\$133,609.74	
Debris removal, by hand and visual inspection, metal panel roofing	1	29.00 M.S.F.	\$711.69	\$868.05	55.0000	55	55	\$47,742.87	\$47,742.87	
Minor metal roof finish repairs, 2% of roof area, metal panel roofing	5	476.00 S.F.	\$2,200.10	\$2,614.65	11.0000	11	11	\$28,761.14	\$28,761.14	
Metal roof flashing replacement, 2 SF/sq repaired, metal panel roofing	1	26.00 S.F.	\$657.99	\$786.40	55.0000	55	55	\$43,252.22	\$43,252.22	
Minor metal roof panel replacement, 2.5% of roof area	20	520.00 S.F.	\$6,696.57	\$7,938.42	2.7500	2	2	\$15,876.83	\$15,876.83	
			\$1,175,442.22	\$1,384,277.21				MR Subtotal	\$4,201,451.84	
									MR Per Year	\$76,268.49
									PM Total	\$19,692.17
									Subtotal	\$95,960.66
									Total Per Unit	\$3.33

FAC 2231 SHIP PRODUCTION PLANT

SUC \$3.33

Release 2023 Qtr 4

UM SF

Zip Code Prefix 222

Design Life 55

Type PM

Average Size 28819.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Door, emergency egress, swinging, annualized	4.00	1.04	\$67.05	\$45.93	\$0.00	\$112.99	\$133.47	\$157.31
Door, overhead, manual, up to 24' high x 25' wide, annualized	4.00	8.78	\$34.05	\$388.55	\$0.00	\$422.59	\$542.56	\$664.23
Fire doors, swinging, annualized	12.00	4.70	\$187.99	\$185.47	\$0.00	\$373.46	\$447.90	\$531.74
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
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, 500 -1000 MBH, annualized	1.00	17.38	\$88.55	\$1,090.00	\$0.00	\$1,178.55	\$1,514.40	\$1,854.69
Chiller, recip., air cooled, over 25 tons, annualized	1.00	12.89	\$95.63	\$815.32	\$0.00	\$910.95	\$1,165.11	\$1,424.05
Air handling unit, 3 thru 24 tons, annualized	4.00	8.24	\$639.58	\$439.49	\$0.00	\$1,079.07	\$1,274.88	\$1,502.66
Backflow prevention device, over 4", annualized	1.00	0.49	\$14.02	\$30.96	\$0.00	\$44.97	\$55.66	\$67.05
Extinguishing system, wet pipe, annualized	1.00	11.34	\$49.59	\$710.68	\$0.00	\$760.27	\$978.43	\$1,199.07
Fire pump, electric motor driven, annualized	2.00	95.50	\$74.89	\$5,973.20	\$0.00	\$6,048.09	\$7,847.54	\$9,650.73
Panelboard, 225 A and above, annualized	2.00	0.88	\$44.00	\$60.83	\$0.00	\$104.83	\$127.48	\$152.33
Crane, electric bridge, over 15 tons, annualized	1.00	8.27	\$388.40	\$306.28	\$0.00	\$694.68	\$825.40	\$975.55
Controls, central system, electro/pneumatic, annually	1.00	1.92	\$169.00	\$121.21	\$0.00	\$290.21	\$343.47	\$405.19
						\$12,782.07	\$16,182.89	\$19,692.17



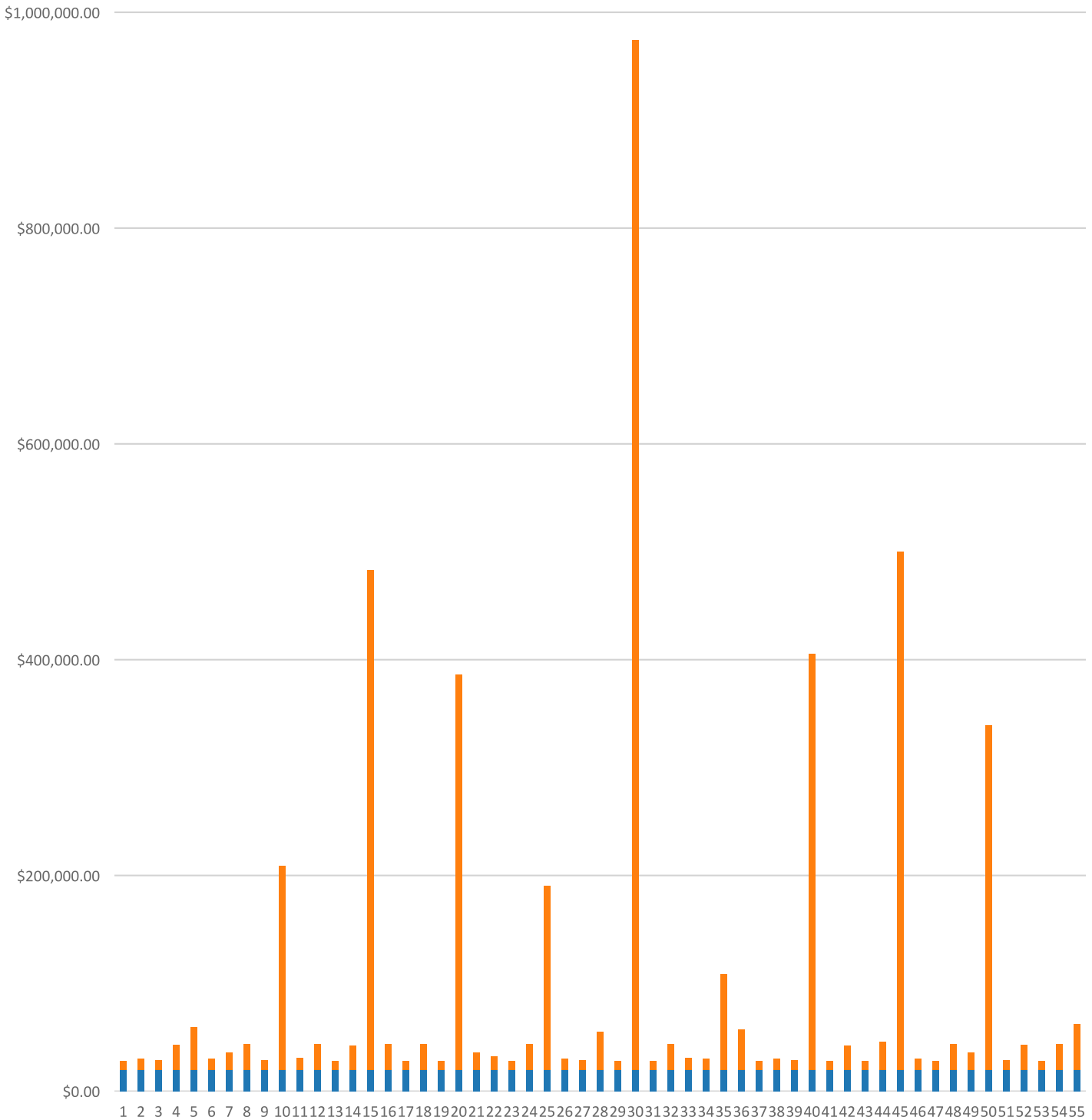
# FAC 2231 SHIP PRODUCTION PLANT

## Modeled Component List

### CostWorks Release 2023 Qtr 4

B30 Roofing	
Metal Steep Roofing	288.0 Sq.
C10 Interior Construction	
Concrete Block, Painted	82.6 C.S.F.
Steel Painted Interior Doors	4.0 Ea.
Solid Core Interior Doors	8.0 Ea.
Fire Doors, Swinging, annualized	12.0 Each
C30 Interior Finishes	
Drywall	21.4 S.F.
Concrete, Finished	59.0 C.S.F.
Vinyl	83.7 S.Y.
Gypsum Wall Board	12.9 C.S.F.
D20 Plumbing	
Tankless Water Closet	10.0 Ea.
Urinal	5.0 Ea.
Lavatory, Vitreous China	10.0 Ea.
Sink, Iron Enamel	2.0 Ea.
Drinking Fountain	4.0 Ea.
Emergency Shower Station	1.0 Ea.
Emergency Eye Wash	1.0 Ea.
Water Heater, Electric, 120 Gallon	1.0 Ea.
Drain: Roof, Scupper, Area	6.0 Ea.
D30 HVAC	
Boiler, Gas, 2000 MBH	1.0 Ea.
Exhaust Fan, roof mounted exhaust fan, 8500 CFM exhaust	2.0 Ea.
Circulator Pump, 1/12 - 3/4 H.P.	1.0 Ea.
Circulator Pump, 1 H.P.	1.0 Ea.
Terminal Reheat Coil, 36" x 36"	3.0 Ea.
Single Zone Air Conditioner, 100 ton	1.0 Ea.
Central Station Air Conditioning Air Handling Unit, 16,000 CFM	1.0 Ea.
D40 Fire Protection	
Sprinkler System, Fire Suppression, sprinkler head	113.0 Ea.
Fire Pump Electric Motor	1.0 Ea.
Fire Pump, Electric, annualized	2.0 Each
D50 Electrical	
Switchgear, Mainframe	1.0 Ea.
Motor Starter, Up To 600 V	8.0 Ea.
Load Center, 100 A, maintenance & inspection	2.0 Ea.
Safety Switch, Heavy Duty	3.0 Ea.
Smoke Detector	69.0 Ea.
Manual Pull Station	4.0 Ea.
Fire Alarm Control Panel	1.0 Ea.
Fire Alarm Bell	10.0 Ea.
B20 Exterior Enclosure	
Steel, Painted	4.0 Ea.
Steel Single, Roll-Up	2.0 Ea.
Electric Bifolding Hangar Door Motor	1.0 Ea.
E10 Equipment	
Crane, Electric, over 15 ton, annualized	1.0 Each

FAC 2231 SHIP PRODUCTION PLANT  
Sustainment by Year  
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PM Cost  
MR Cost