

FAC 2126 INTERCONTINENTAL BALLISTIC MISSILE PROCESSING FACILITY

FY24 SUC: \$37.14 / SF
Source: Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 2126 INTERCONTINENTAL BALLISTIC MISSILE PROCESSING FACILITY SUC \$37.14

Release 2023 Qtr 4 UM SF
Zip Code Prefix 222 Design Life 31
Type MR Average Size 33155.038461

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 |
|---|-----------|-----------------|----------------|----------------|-----------------------|----------------------------|----------------------|----------------|----------------|
| Repair metal stairs | 15 | 2,080.00 S.F. | \$150,108.23 | \$173,567.59 | 2.0667 | 2 | 2 | \$347,135.18 | \$347,135.18 |
| Replace metal stairs | 40 | 2,080.00 S.F. | \$404,844.56 | \$465,126.84 | 0.7750 | 0 | 0 | \$0.00 | \$0.00 |
| Replace metal hand rail | 30 | 728.00 L.F. | \$44,073.29 | \$51,232.41 | 1.0333 | 1 | 1 | \$51,232.41 | \$51,232.41 |
| Refinish metal hand rail | 7 | 728.00 L.F. | \$1,489.77 | \$1,837.72 | 4.4286 | 4 | 4 | \$7,350.88 | \$7,350.88 |
| Refinish fire escape ladder | 7 | 180.00 V.L.F. | \$795.65 | \$964.23 | 4.4286 | 4 | 4 | \$3,856.91 | \$3,856.91 |
| Replace fire escape ladder | 25 | 180.00 V.L.F. | \$21,846.38 | \$25,782.00 | 1.2400 | 1 | 1 | \$25,782.00 | \$25,782.00 |
| Point and refinish painted concrete block wall, 1st floor | 25 | 1,400.00 C.S.F. | \$723,701.53 | \$891,957.69 | 1.2400 | 1 | 1 | \$891,957.69 | \$891,957.69 |
| Point and refinish painted concrete block wall, 2nd floor | 25 | 1,400.00 C.S.F. | \$843,467.09 | \$1,040,574.59 | 1.2400 | 1 | 1 | \$1,040,574.59 | \$1,040,574.59 |
| Replace steel siding - 1st floor | 35 | 320.00 C.S.F. | \$192,419.53 | \$231,969.13 | 0.8857 | 0 | 0 | \$0.00 | \$0.00 |
| Replace steel siding - 2nd floor | 35 | 320.00 C.S.F. | \$237,291.68 | \$287,717.25 | 0.8857 | 0 | 0 | \$0.00 | \$0.00 |
| Refinish steel louver, 1st floor | 5 | 4.00 Ea. | \$423.13 | \$524.05 | 6.2000 | 6 | 6 | \$3,144.31 | \$3,144.31 |
| Replace steel louver, 1st floor | 40 | 4.00 Ea. | \$2,416.59 | \$2,828.01 | 0.7750 | 0 | 0 | \$0.00 | \$0.00 |
| Refinish steel louver, 2nd floor | 5 | 6.00 Ea. | \$887.55 | \$1,100.57 | 6.2000 | 6 | 6 | \$6,603.39 | \$6,603.39 |
| Repair 3' x 4' aluminum window - 1st floor | 20 | 54.00 Ea. | \$15,331.91 | \$18,036.82 | 1.5500 | 1 | 1 | \$18,036.82 | \$18,036.82 |
| Repair 3' x 4' aluminum window - 2nd floor | 20 | 54.00 Ea. | \$18,036.26 | \$21,396.64 | 1.5500 | 1 | 1 | \$21,396.64 | \$21,396.64 |
| Refinish 3'-0" x 4'-0" aluminum frame storm window - 1st floor. | 10 | 54.00 Ea. | \$5,190.84 | \$6,442.80 | 3.1000 | 3 | 3 | \$19,328.41 | \$19,328.41 |
| Replace 3'-0" x 4'-0" aluminum frame storm window - 1st floor. | 50 | 54.00 Ea. | \$18,182.94 | \$21,289.31 | 0.6200 | 0 | 0 | \$0.00 | \$0.00 |
| Refinish 3'-0" x 4'-0" aluminum frame storm window - 2nd floor. | 10 | 54.00 Ea. | \$7,466.61 | \$9,273.20 | 3.1000 | 3 | 3 | \$27,819.61 | \$27,819.61 |
| Replace 3'-0" x 4'-0" aluminum frame storm window - 2nd floor. | 50 | 54.00 Ea. | \$20,887.29 | \$24,649.13 | 0.6200 | 0 | 0 | \$0.00 | \$0.00 |
| Repair aluminum storefront door | 12 | 2.00 Ea. | \$1,020.45 | \$1,219.37 | 2.5833 | 2 | 2 | \$2,438.74 | \$2,438.74 |
| Repair aluminum, insulated, door | 12 | 4.00 Ea. | \$2,809.34 | \$3,336.77 | 2.5833 | 2 | 2 | \$6,673.54 | \$6,673.54 |
| Replace 3'-0" x 7'-0" aluminum, insulated, door | 50 | 4.00 Ea. | \$8,587.68 | \$9,846.02 | 0.6200 | 0 | 0 | \$0.00 | \$0.00 |
| Repair steel, painted, door | 14 | 10.00 Ea. | \$7,023.34 | \$8,341.93 | 2.2143 | 2 | 2 | \$16,683.85 | \$16,683.85 |
| Refinish 3'-0" x 7'-0" steel, painted, door | 4 | 10.00 Ea. | \$460.55 | \$563.96 | 7.7500 | 7 | 7 | \$3,947.74 | \$3,947.74 |
| Replace 3'-0" x 7'-0" steel, painted, door | 45 | 10.00 Ea. | \$9,171.09 | \$10,619.26 | 0.6889 | 0 | 0 | \$0.00 | \$0.00 |
| Repair 12' x 12' steel roll-up door | 10 | 4.00 Ea. | \$2,804.46 | \$3,332.89 | 3.1000 | 3 | 3 | \$9,998.68 | \$9,998.68 |
| Replace 12' x 12' steel roll-up door | 35 | 4.00 Ea. | \$11,217.86 | \$13,331.58 | 0.8857 | 0 | 0 | \$0.00 | \$0.00 |
| Refinish 12' x 24' steel double roll-up door | 5 | 4.00 Ea. | \$1,846.39 | \$2,251.89 | 6.2000 | 6 | 6 | \$13,511.36 | \$13,511.36 |
| Replace brass door hinge | 60 | 10.00 Ea. | \$1,917.29 | \$2,312.99 | 0.5167 | 0 | 0 | \$0.00 | \$0.00 |
| Replace brass door lockset exterior | 30 | 10.00 Ea. | \$6,676.90 | \$7,690.00 | 1.0333 | 1 | 1 | \$7,690.00 | \$7,690.00 |
| Replace brass door closer | 15 | 10.00 Ea. | \$3,097.24 | \$3,633.68 | 2.0667 | 2 | 2 | \$7,267.37 | \$7,267.37 |
| Automatic door opener on existing door | 7 | 10.00 Ea. | \$72,923.68 | \$84,596.50 | 4.4286 | 4 | 4 | \$338,386.01 | \$338,386.01 |
| Debris removal, by hand and visual inspection, thermosetting | 1 | 33.34 M.S.F. | \$1,350.83 | \$1,647.62 | 31.0000 | 31 | 31 | \$51,076.09 | \$51,076.09 |
| Non - destructive moisture inspection, thermosetting | 5 | 33.34 M.S.F. | \$4,208.72 | \$5,133.39 | 6.2000 | 6 | 6 | \$30,800.35 | \$30,800.35 |

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| Minor membrane repairs, 2% of roof area, thermoset | 1 | 6.70 Sq. | \$2,333.41 | \$2,785.52 | 31.0000 | 31 | 31 | \$86,351.18 | \$86,351.18 |
| Flashing repairs, 2 S.F. per sq. repaired, thermoset | 1 | 164.00 S.F. | \$435.28 | \$529.25 | 31.0000 | 31 | 31 | \$16,406.61 | \$16,406.61 |
| Minor replacement, 25% of roof area, thermoset | 10 | 84.00 Sq. | \$38,116.39 | \$44,970.95 | 3.1000 | 3 | 3 | \$134,912.85 | \$134,912.85 |
| Total thermoset roof replacement | 20 | 331.00 Sq. | \$300,082.70 | \$353,428.42 | 1.5500 | 1 | 1 | \$353,428.42 | \$353,428.42 |
| Replace 8" concrete block wall painted | 75 | 90.00 C.S.F. | \$109,626.98 | \$132,109.29 | 0.4133 | 0 | 0 | \$0.00 | \$0.00 |
| Repair steel painted interior door | 14 | 10.00 Ea. | \$2,789.88 | \$3,256.82 | 2.2143 | 2 | 2 | \$6,513.64 | \$6,513.64 |
| Refinish 3'-0" x 7'-0" steel painted interior door | 4 | 10.00 Ea. | \$576.52 | \$708.77 | 7.7500 | 7 | 7 | \$4,961.41 | \$4,961.41 |
| Replace 3'-0" x 7'-0" steel painted interior door | 60 | 10.00 Ea. | \$12,795.48 | \$14,839.17 | 0.5167 | 0 | 0 | \$0.00 | \$0.00 |
| Repair solid core wood door, interior | 11 | 35.00 Ea. | \$9,764.59 | \$11,398.88 | 2.8182 | 2 | 2 | \$22,797.75 | \$22,797.75 |
| Refinish 3'-0" x 7'-0" solid core wood door, interior | 4 | 35.00 Ea. | \$1,540.52 | \$1,898.32 | 7.7500 | 7 | 7 | \$13,288.26 | \$13,288.26 |
| Replace 3'-0" x 7'-0" solid core wood door, interior | 40 | 35.00 Ea. | \$19,829.26 | \$22,893.42 | 0.7750 | 0 | 0 | \$0.00 | \$0.00 |
| Replace 1 1/2 pair brass hinges | 60 | 45.00 Ea. | \$14,159.56 | \$16,721.09 | 0.5167 | 0 | 0 | \$0.00 | \$0.00 |
| Replace brass lockset interior | 30 | 45.00 Ea. | \$11,871.61 | \$13,848.04 | 1.0333 | 1 | 1 | \$13,848.04 | \$13,848.04 |
| Replace brass door closer | 15 | 45.00 Ea. | \$12,640.72 | \$14,803.56 | 2.0667 | 2 | 2 | \$29,607.13 | \$29,607.13 |
| Replace panic bar | 25 | 6.00 Ea. | \$12,428.00 | \$14,218.60 | 1.2400 | 1 | 1 | \$14,218.60 | \$14,218.60 |
| Replace toilet partitions, painted metal-overhead braced, per stall | 20 | 12.00 Ea. | \$10,505.22 | \$12,264.16 | 1.5500 | 1 | 1 | \$12,264.16 | \$12,264.16 |
| Replace epoxy flooring | 15 | 211.00 C.S.F. | \$253,516.72 | \$303,240.80 | 2.0667 | 2 | 2 | \$606,481.59 | \$606,481.59 |
| Replace carpet | 8 | 501.00 S.Y. | \$27,052.28 | \$31,283.68 | 3.8750 | 3 | 3 | \$93,851.04 | \$93,851.04 |
| Refinish acoustic tile ceiling and grid (occupied area) | 5 | 9.00 C.S.F. | \$234.54 | \$291.69 | 6.2000 | 6 | 6 | \$1,750.15 | \$1,750.15 |
| Replace acoustic tile ceiling, fire-rated | 20 | 90.00 C.S.F. | \$46,883.51 | \$55,412.76 | 1.5500 | 1 | 1 | \$55,412.76 | \$55,412.76 |
| Replace flush valve diaphragm tankless water closet | 10 | 12.00 Ea. | \$327.17 | \$406.27 | 3.1000 | 3 | 3 | \$1,218.82 | \$1,218.82 |
| Rebuild flush valve tankless water closet | 20 | 12.00 Ea. | \$2,302.57 | \$2,775.23 | 1.5500 | 1 | 1 | \$2,775.23 | \$2,775.23 |
| Unplug clogged line tankless water closet | 5 | 12.00 Ea. | \$2,759.15 | \$3,453.98 | 6.2000 | 6 | 6 | \$20,723.88 | \$20,723.88 |
| Replace tankless water closet | 35 | 12.00 Ea. | \$16,998.65 | \$19,659.85 | 0.8857 | 0 | 0 | \$0.00 | \$0.00 |
| Replace tankless flush valve | 25 | 12.00 Ea. | \$3,242.91 | \$3,806.61 | 1.2400 | 1 | 1 | \$3,806.61 | \$3,806.61 |
| Replace wax ring gasket for tankless water closet | 5 | 12.00 Ea. | \$1,789.97 | \$2,238.64 | 6.2000 | 6 | 6 | \$13,431.85 | \$13,431.85 |
| Replace flush valve diaphragm for a urinal | 7 | 6.00 Ea. | \$163.58 | \$203.14 | 4.4286 | 4 | 4 | \$812.55 | \$812.55 |
| Rebuild flush valve for a urinal | 20 | 6.00 Ea. | \$1,151.29 | \$1,387.61 | 1.5500 | 1 | 1 | \$1,387.61 | \$1,387.61 |
| Unplug line urinal | 5 | 6.00 Ea. | \$915.85 | \$1,146.49 | 6.2000 | 6 | 6 | \$6,878.94 | \$6,878.94 |
| Replace wall-hung urinal | 35 | 6.00 Ea. | \$6,525.12 | \$7,848.28 | 0.8857 | 0 | 0 | \$0.00 | \$0.00 |
| Replace washer in spud connection lavatory, iron, enamel | 7 | 12.00 Ea. | \$149.37 | \$180.48 | 4.4286 | 4 | 4 | \$721.93 | \$721.93 |
| Replace washer in faucet lavatory, iron, enamel | 2 | 12.00 Ea. | \$161.39 | \$201.23 | 15.5000 | 15 | 15 | \$3,018.49 | \$3,018.49 |
| Replace faucets lavatory, iron, enamel | 10 | 12.00 Ea. | \$2,345.66 | \$2,821.46 | 3.1000 | 3 | 3 | \$8,464.37 | \$8,464.37 |
| Clean out strainer and P trap lavatory, iron, enamel | 2 | 12.00 Ea. | \$441.82 | \$553.09 | 15.5000 | 15 | 15 | \$8,296.32 | \$8,296.32 |
| Replace lavatory, iron, enamel | 40 | 12.00 Ea. | \$9,240.84 | \$10,889.28 | 0.7750 | 0 | 0 | \$0.00 | \$0.00 |

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|---|-----------|-----------|----------------|---------------|-----------------------|----------------------------|----------------------|--------------|---------------|
| Replace faucet washer sink, service/utility | 2 | 4.00 Ea. | \$53.80 | \$67.08 | 15.5000 | 15 | 15 | \$1,006.16 | \$1,006.16 |
| Clean trap | 3 | 4.00 Ea. | \$36.02 | \$45.10 | 10.3333 | 10 | 10 | \$450.96 | \$450.96 |
| Replace faucets sink, service/utility | 10 | 4.00 Ea. | \$781.89 | \$940.49 | 3.1000 | 3 | 3 | \$2,821.46 | \$2,821.46 |
| Unstop sink | 2 | 4.00 Ea. | \$176.04 | \$220.38 | 15.5000 | 15 | 15 | \$3,305.63 | \$3,305.63 |
| Replace sink, P.E.C.I. service/utility | 35 | 4.00 Ea. | \$6,697.47 | \$7,831.38 | 0.8857 | 0 | 0 | \$0.00 | \$0.00 |
| Inspect / clean shower head fiberglass | 3 | 8.00 Ea. | \$412.28 | \$516.11 | 10.3333 | 10 | 10 | \$5,161.08 | \$5,161.08 |
| Replace mixing valve shower, fiberglass | 10 | 8.00 Ea. | \$2,347.14 | \$2,855.44 | 3.1000 | 3 | 3 | \$8,566.33 | \$8,566.33 |
| Replace shower and fittings, fiberglass | 20 | 8.00 Ea. | \$8,792.65 | \$10,482.46 | 1.5500 | 1 | 1 | \$10,482.46 | \$10,482.46 |
| Check / minor repairs drinking fountain | 1 | 4.00 Ea. | \$206.10 | \$258.00 | 31.0000 | 31 | 31 | \$7,998.01 | \$7,998.01 |
| Repair internal leaks drinking fountain | 4 | 4.00 Ea. | \$191.07 | \$239.19 | 7.7500 | 7 | 7 | \$1,674.31 | \$1,674.31 |
| Correct water pressure drinking fountain | 2 | 4.00 Ea. | \$176.04 | \$220.38 | 15.5000 | 15 | 15 | \$3,305.63 | \$3,305.63 |
| Replace refrigerant drinking fountain | 2 | 4.00 Ea. | \$141.62 | \$165.72 | 15.5000 | 15 | 15 | \$2,485.78 | \$2,485.78 |
| Repair drain leak drinking fountain | 4 | 4.00 Ea. | \$116.38 | \$140.76 | 7.7500 | 7 | 6 | \$985.30 | \$844.54 |
| Replace fountain drinking fountain | 10 | 4.00 Ea. | \$6,483.25 | \$7,617.20 | 3.1000 | 3 | 3 | \$22,851.61 | \$22,851.61 |
| Inspect and clean shower head emergency shower station | 3 | 4.00 Ea. | \$206.14 | \$258.05 | 10.3333 | 10 | 10 | \$2,580.54 | \$2,580.54 |
| Replace shower emergency shower station | 25 | 4.00 Ea. | \$4,212.33 | \$5,036.60 | 1.2400 | 1 | 1 | \$5,036.60 | \$5,036.60 |
| Inspect and clean spray heads, emergency eye wash | 3 | 4.00 Ea. | \$206.14 | \$258.05 | 10.3333 | 10 | 10 | \$2,580.54 | \$2,580.54 |
| Replace eye wash station, emergency eye wash | 25 | 4.00 Ea. | \$3,143.65 | \$3,822.20 | 1.2400 | 1 | 1 | \$3,822.20 | \$3,822.20 |
| Replace storage tank, glass lined, P.E., 80 gal. | 50 | 2.00 Ea. | \$9,563.58 | \$10,898.69 | 0.6200 | 0 | 0 | \$0.00 | \$0.00 |
| Replace pump / motor assembly circulation pump, bronze 1 HP | 20 | 2.00 Ea. | \$11,267.80 | \$12,929.25 | 1.5500 | 1 | 1 | \$12,929.25 | \$12,929.25 |
| General maintenance & repair drain: roof, scupper, area | 1 | 3.00 Ea. | \$117.54 | \$147.14 | 31.0000 | 31 | 31 | \$4,561.37 | \$4,561.37 |
| Replace drain: roof, scupper, area | 40 | 3.00 Ea. | \$3,391.12 | \$3,911.55 | 0.7750 | 0 | 0 | \$0.00 | \$0.00 |
| Insp/chk pump/mtr oper, lub, chk align, rainwater sump pump | 1 | 1.00 Ea. | \$12.56 | \$15.72 | 31.0000 | 31 | 31 | \$487.38 | \$487.38 |
| Replace rainwater sump pump / motor assembly | 20 | 1.00 Ea. | \$639.87 | \$757.30 | 1.5500 | 1 | 1 | \$757.30 | \$757.30 |
| Repair boiler, gas, 2000 MBH | 7 | 2.00 Ea. | \$11,469.59 | \$13,370.29 | 4.4286 | 4 | 4 | \$53,481.17 | \$53,481.17 |
| Replace boiler, gas, 2000 MBH | 30 | 2.00 Ea. | \$81,177.87 | \$95,116.86 | 1.0333 | 1 | 1 | \$95,116.86 | \$95,116.86 |
| Repair boiler blowoff system | 10 | 2.00 Ea. | \$155.65 | \$194.84 | 3.1000 | 3 | 3 | \$584.53 | \$584.53 |
| Replace boiler blowoff system | 15 | 2.00 Ea. | \$17,035.29 | \$19,493.63 | 2.0667 | 2 | 2 | \$38,987.25 | \$38,987.25 |
| Repair chemical feed system | 15 | 2.00 Ea. | \$1,986.36 | \$2,362.80 | 2.0667 | 2 | 2 | \$4,725.61 | \$4,725.61 |
| Replace chemical feed system | 15 | 2.00 Ea. | \$1,922.65 | \$2,229.45 | 2.0667 | 2 | 2 | \$4,458.90 | \$4,458.90 |
| Repair feed water supply pump | 15 | 2.00 Ea. | \$11,930.39 | \$13,726.57 | 2.0667 | 2 | 2 | \$27,453.13 | \$27,453.13 |
| Replace feed water pump | 15 | 2.00 Ea. | \$56,917.47 | \$65,235.45 | 2.0667 | 2 | 2 | \$130,470.89 | \$130,470.89 |
| Repair deaerator | 10 | 2.00 Ea. | \$155.65 | \$194.84 | 3.1000 | 3 | 3 | \$584.53 | \$584.53 |
| Replace deaerator | 20 | 2.00 Ea. | \$107,150.77 | \$125,111.18 | 1.5500 | 1 | 1 | \$125,111.18 | \$125,111.18 |
| Replace metal flue, all fuel SS, 6" diameter metal flue / chimney | 15 | 2.00 L.F. | \$330.76 | \$381.83 | 2.0667 | 2 | 2 | \$763.66 | \$763.66 |

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| Repair cooling tower, 100 ton | 10 | 4.00 Ea. | \$22,587.89 | \$26,658.54 | 3.1000 | 3 | 2 | \$79,975.63 | \$53,317.09 |
| Replace cooling tower, 100 ton | 15 | 4.00 Ea. | \$97,945.57 | \$112,739.52 | 2.0667 | 2 | 2 | \$225,479.05 | \$225,479.05 |
| Repair water cooled chiller, 100 ton, reciprocating | 10 | 4.00 Ea. | \$282,096.14 | \$329,084.37 | 3.1000 | 3 | 2 | \$987,253.12 | \$658,168.75 |
| Replace chiller, water cooled, 100 ton, reciprocating | 20 | 4.00 Ea. | \$379,143.11 | \$440,945.79 | 1.5500 | 1 | 1 | \$440,945.79 | \$440,945.79 |
| Replace roof mounted exhaust fan, 800 CFM exhaust fan | 20 | 4.00 Ea. | \$6,847.57 | \$8,026.85 | 1.5500 | 1 | 1 | \$8,026.85 | \$8,026.85 |
| Replace roof mounted exhaust fan, 8500 CFM exhaust fan | 20 | 2.00 Ea. | \$8,594.12 | \$9,969.92 | 1.5500 | 1 | 1 | \$9,969.92 | \$9,969.92 |
| Replace axial flow fan, 3800 CFM exhaust fan | 10 | 2.00 Ea. | \$4,710.29 | \$5,532.70 | 3.1000 | 3 | 3 | \$16,598.09 | \$16,598.09 |
| Repack gate valve gland, 2" - 3" valves | 10 | 4.00 Ea. | \$155.68 | \$186.31 | 3.1000 | 3 | 3 | \$558.92 | \$558.92 |
| Repair computer room A/C, chilled water, 5 ton | 10 | 2.00 Ea. | \$17,085.14 | \$19,990.27 | 3.1000 | 3 | 2 | \$59,970.81 | \$39,980.54 |
| Replace computer room A/C, chilled water, 5 ton | 20 | 2.00 Ea. | \$55,554.99 | \$63,735.51 | 1.5500 | 1 | 1 | \$63,735.51 | \$63,735.51 |
| Repair central station A.H.U., 8000 CFM | 10 | 4.00 Ea. | \$7,209.55 | \$8,343.88 | 3.1000 | 3 | 2 | \$25,031.63 | \$16,687.75 |
| Replace central station A.H.U., 8000 CFM | 15 | 4.00 Ea. | \$161,576.78 | \$186,225.17 | 2.0667 | 2 | 2 | \$372,450.33 | \$372,450.33 |
| Repair central station A.H.U., 33,500 CFM | 10 | 4.00 Ea. | \$26,171.15 | \$30,011.13 | 3.1000 | 3 | 2 | \$90,033.39 | \$60,022.26 |
| Replace central station A.H.U., 33,500 CFM | 15 | 4.00 Ea. | \$628,197.91 | \$722,128.26 | 2.0667 | 2 | 2 | \$1,444,256.52 | \$1,444,256.52 |
| Rebuild 4" diameter reduced pressure backflow preventer | 10 | 2.00 Ea. | \$1,842.34 | \$2,145.63 | 3.1000 | 3 | 3 | \$6,436.88 | \$6,436.88 |
| Inspect sprinkler system | 1 | 1.00 Ea. | \$36.17 | \$45.28 | 31.0000 | 31 | 31 | \$1,403.82 | \$1,403.82 |
| Replace sprinkler head | 20 | 150.00 Ea. | \$13,147.18 | \$16,222.78 | 1.5500 | 1 | 1 | \$16,222.78 | \$16,222.78 |
| Repair switchgear 1200 A mainframe | 5 | 4.00 Ea. | \$7,214.21 | \$8,463.01 | 6.2000 | 6 | 5 | \$50,778.05 | \$42,315.04 |
| Maintenance and inspection switchgear, mainframe | 1 | 4.00 Ea. | \$273.03 | \$342.06 | 31.0000 | 31 | 31 | \$10,603.89 | \$10,603.89 |
| Replace switchgear 1200 A mainframe | 20 | 4.00 Ea. | \$17,003.71 | \$20,509.19 | 1.5500 | 1 | 1 | \$20,509.19 | \$20,509.19 |
| Repair switchgear, - (5% of total C.B.), indoor, less than 600 V | 10 | 4.00 Ea. | \$3,113.86 | \$3,599.73 | 3.1000 | 3 | 3 | \$10,799.20 | \$10,799.20 |
| Maintenance and inspection switchgear, indoor, less than 600 V | 3 | 4.00 Ea. | \$169.38 | \$212.20 | 10.3333 | 10 | 10 | \$2,122.05 | \$2,122.05 |
| Replace switchgear, 225 A | 30 | 4.00 Ea. | \$8,178.31 | \$9,986.18 | 1.0333 | 1 | 1 | \$9,986.18 | \$9,986.18 |
| Maintenance and repair inverter | 1 | 2.00 Ea. | \$1,587.73 | \$1,902.90 | 31.0000 | 31 | 31 | \$58,989.83 | \$58,989.83 |
| Maintenance and inspection inverter | 0.25 | 2.00 Ea. | \$273.03 | \$342.06 | 124.0000 | 124 | 124 | \$42,415.57 | \$42,415.57 |
| Replace 1 KVA inverter | 20 | 2.00 Ea. | \$7,766.21 | \$8,866.91 | 1.5500 | 1 | 1 | \$8,866.91 | \$8,866.91 |
| Maintenance and repair rectifier, up to 600 V | 2 | 2.00 Ea. | \$1,341.86 | \$1,604.06 | 15.5000 | 15 | 14 | \$24,060.91 | \$22,456.85 |
| Maintenance and inspection rectifier, up to 600 V | 0.33 | 2.00 Ea. | \$273.03 | \$342.06 | 93.9394 | 93 | 93 | \$31,811.68 | \$31,811.68 |
| Replace rectifier, up to 600 V | 20 | 2.00 Ea. | \$2,382.70 | \$2,749.29 | 1.5500 | 1 | 1 | \$2,749.29 | \$2,749.29 |
| Maintenance and repair motor starter, up to 600 V | 5 | 10.00 Ea. | \$2,628.20 | \$3,194.94 | 6.2000 | 6 | 6 | \$19,169.65 | \$19,169.65 |
| Maintenance and inspection motor starter, up to 600 V | 0.5 | 10.00 Ea. | \$568.80 | \$712.63 | 62.0000 | 62 | 62 | \$44,182.89 | \$44,182.89 |

| Description | Frequency | Qty Unit | Total In-House | Total Incl OP | Design Life/Frequency | Occurrences in Design Life | Adjusted Occurrences | Life Cost | Adjusted Cost |
|--|-----------|-------------|----------------|---------------|-----------------------|----------------------------|----------------------|--------------|---------------|
| Replace starter motor starter, up to 600 V | 18 | 10.00 Ea. | \$8,410.22 | \$10,007.46 | 1.7222 | 1 | 1 | \$10,007.46 | \$10,007.46 |
| Maintenance and repair secondary transformer, dry | 10 | 2.00 Ea. | \$508.21 | \$607.25 | 3.1000 | 3 | 2 | \$1,821.75 | \$1,214.50 |
| Maintenance and inspection secondary transformer, dry | 0.5 | 2.00 Ea. | \$170.64 | \$213.79 | 62.0000 | 62 | 62 | \$13,254.87 | \$13,254.87 |
| Replace transformer 500 KVA | 30 | 2.00 Ea. | \$48,518.43 | \$56,255.00 | 1.0333 | 1 | 1 | \$56,255.00 | \$56,255.00 |
| Maintenance and inspection lighting panel, indoor | 3 | 4.00 Ea. | \$169.38 | \$212.20 | 10.3333 | 10 | 10 | \$2,122.05 | \$2,122.05 |
| Maintenance and repair breaker, molded case, 480 V, 1 pole | 20 | 168.00 Ea. | \$12,741.18 | \$15,962.85 | 1.5500 | 1 | 1 | \$15,962.85 | \$15,962.85 |
| Maintenance and inspection circuit breaker, molded case, 480 V, 1 pole | 0.5 | 168.00 Ea. | \$5,733.53 | \$7,183.28 | 62.0000 | 62 | 62 | \$445,363.49 | \$445,363.49 |
| Replace circuit breaker molded case, 480 V, 1 pole circuit breaker | 50 | 168.00 Ea. | \$132,455.57 | \$153,285.29 | 0.6200 | 0 | 0 | \$0.00 | \$0.00 |
| Maintenance and repair breaker, molded case, 480 V, 3 pole | 20 | 4.00 Ea. | \$303.36 | \$380.07 | 1.5500 | 1 | 1 | \$380.07 | \$380.07 |
| Maintenance and inspection circuit breaker, molded case, 480 V, 3 pole | 0.5 | 4.00 Ea. | \$136.51 | \$171.03 | 62.0000 | 62 | 62 | \$10,603.89 | \$10,603.89 |
| Replace circuit breaker molded case, 480 V, 3 pole circuit breaker | 50 | 4.00 Ea. | \$5,453.36 | \$6,302.94 | 0.6200 | 0 | 0 | \$0.00 | \$0.00 |
| Maintenance and repair safety switch, 3 pole safety switch, heavy duty | 8 | 1.00 Ea. | \$42.34 | \$53.05 | 3.8750 | 3 | 3 | \$159.15 | \$159.15 |
| Maintenance and inspection safety switch, 3 pole, heavy duty | 1 | 1.00 Ea. | \$42.34 | \$53.05 | 31.0000 | 31 | 31 | \$1,644.59 | \$1,644.59 |
| Replace safety switch, heavy duty 30 A | 25 | 14.00 Ea. | \$9,472.80 | \$11,287.28 | 1.2400 | 1 | 1 | \$11,287.28 | \$11,287.28 |
| Replace fluorescent light fixture ballast, 80 W | 10 | 90.00 Ea. | \$9,414.55 | \$11,609.17 | 3.1000 | 3 | 3 | \$34,827.52 | \$34,827.52 |
| Replace lamps (2 lamps), 4', 34 W energy saver | 10 | 90.00 Ea. | \$2,383.71 | \$2,985.20 | 3.1000 | 3 | 3 | \$8,955.61 | \$8,955.61 |
| Replace metal halide ballast, 175 W | 10 | 52.00 Ea. | \$8,678.12 | \$10,387.75 | 3.1000 | 3 | 3 | \$31,163.25 | \$31,163.25 |
| Replace metal halide fixture lamp, 175 W | 5 | 52.00 Ea. | \$2,969.04 | \$3,613.56 | 6.2000 | 6 | 6 | \$21,681.37 | \$21,681.37 |
| Inspect camera and monitor | 0.5 | 12.00 Ea. | \$827.42 | \$1,036.64 | 62.0000 | 62 | 62 | \$64,271.37 | \$64,271.37 |
| Replace camera and monitor | 12 | 12.00 Ea. | \$15,261.75 | \$18,333.67 | 2.5833 | 2 | 2 | \$36,667.34 | \$36,667.34 |
| Repair smoke detector | 10 | 75.00 Ea. | \$4,350.76 | \$5,387.44 | 3.1000 | 3 | 2 | \$16,162.33 | \$10,774.88 |
| Replace smoke detector | 15 | 75.00 Ea. | \$22,691.43 | \$27,091.38 | 2.0667 | 2 | 2 | \$54,182.76 | \$54,182.76 |
| Repair heat detector | 10 | 75.00 Ea. | \$4,695.26 | \$5,778.91 | 3.1000 | 3 | 3 | \$17,336.74 | \$17,336.74 |
| Replace heat detector | 15 | 75.00 Ea. | \$13,282.99 | \$16,261.93 | 2.0667 | 2 | 2 | \$32,523.86 | \$32,523.86 |
| Minor repairs to fire alarm control panel | 5 | 6.00 Ea. | \$896.50 | \$1,095.57 | 6.2000 | 6 | 6 | \$6,573.43 | \$6,573.43 |
| Maintenance and inspection fire alarm control panel | 0.5 | 6.00 Ea. | \$273.03 | \$342.06 | 62.0000 | 62 | 62 | \$21,207.79 | \$21,207.79 |
| Replace fire alarm control panel | 15 | 6.00 Ea. | \$13,176.73 | \$16,052.85 | 2.0667 | 2 | 2 | \$32,105.69 | \$32,105.69 |
| Minor repairs to annunciation panel | 5 | 1.00 Ea. | \$149.42 | \$182.60 | 6.2000 | 6 | 6 | \$1,095.57 | \$1,095.57 |
| Replace fire alarm bell, 6" | 20 | 30.00 Ea. | \$5,418.18 | \$6,593.15 | 1.5500 | 1 | 1 | \$6,593.15 | \$6,593.15 |
| Replace electrical service ground | 50 | 1.00 M.L.F. | \$4,504.18 | \$5,489.97 | 0.6200 | 0 | 0 | \$0.00 | \$0.00 |
| Maintenance and repair of general wiring lightning protection system | 1 | 1.00 M.L.F. | \$109.50 | \$134.89 | 31.0000 | 31 | 31 | \$4,181.49 | \$4,181.49 |

| Description | Frequency | Qty Unit | Total In-House | Total Incl OP | Design Life/Frequency | Occurrences in Design Life | Adjusted Occurrences | Life Cost | Adjusted Cost | |
|--|-----------|-------------|----------------|----------------|-----------------------|----------------------------|----------------------|--------------|------------------------------|--------------|
| Replace lightning protection general wiring system | 25 | 1.00 M.L.F. | \$12,548.36 | \$14,875.43 | 1.2400 | 1 | 1 | \$14,875.43 | \$14,875.43 | |
| Maintenance and repair lightning ground rod | 1 | 6.00 Ea. | \$553.70 | \$691.93 | 31.0000 | 31 | 30 | \$21,449.81 | \$20,757.88 | |
| Replace lightning ground rod | 25 | 6.00 Ea. | \$1,473.63 | \$1,822.03 | 1.2400 | 1 | 1 | \$1,822.03 | \$1,822.03 | |
| Maintenance and repair computer ground system | 4 | 1.00 Ea. | \$22.69 | \$28.43 | 7.7500 | 7 | 7 | \$198.98 | \$198.98 | |
| Replace computer ground system | 50 | 1.00 M.L.F. | \$2,425.55 | \$2,923.14 | 0.6200 | 0 | 0 | \$0.00 | \$0.00 | |
| Maintenance and repair special ground system | 4 | 1.00 Ea. | \$22.69 | \$28.43 | 7.7500 | 7 | 7 | \$198.98 | \$198.98 | |
| Replace special ground system | 50 | 1.00 M.L.F. | \$2,425.55 | \$2,923.14 | 0.6200 | 0 | 0 | \$0.00 | \$0.00 | |
| Maintenance and inspection generator, diesel, 750 KW | 0.08 | 2.00 Ea. | \$136.51 | \$171.03 | 387.5000 | 387 | 387 | \$66,188.81 | \$66,188.81 | |
| Replace diesel generator component, 750 KW | 25 | 2.00 Ea. | \$483,520.98 | \$553,769.95 | 1.2400 | 1 | 1 | \$553,769.95 | \$553,769.95 | |
| Maintenance and repair transfer switch | 5 | 2.00 Ea. | \$713.85 | \$864.20 | 6.2000 | 6 | 6 | \$5,185.18 | \$5,185.18 | |
| Maintenance and inspection transfer switch | 0.5 | 2.00 Ea. | \$84.69 | \$106.10 | 62.0000 | 62 | 62 | \$6,578.34 | \$6,578.34 | |
| Replace transfer switch | 18 | 2.00 Ea. | \$49,894.87 | \$57,171.78 | 1.7222 | 1 | 1 | \$57,171.78 | \$57,171.78 | |
| Maintenance and repair exit light | 20 | 30.00 Ea. | \$1,154.71 | \$1,430.12 | 1.5500 | 1 | 1 | \$1,430.12 | \$1,430.12 | |
| Replace lamp exit light | 5 | 30.00 Ea. | \$490.40 | \$583.16 | 6.2000 | 6 | 6 | \$3,498.95 | \$3,498.95 | |
| Replace lighting fixture exit light | 20 | 30.00 Ea. | \$5,281.95 | \$6,405.21 | 1.5500 | 1 | 1 | \$6,405.21 | \$6,405.21 | |
| Maintenance and inspection battery, wet | 0.02 | 8.00 Ea. | \$338.75 | \$424.41 | 1,550.0000 | 1550 | 1550 | \$657,834.09 | \$657,834.09 | |
| Replace battery, wet | 10 | 8.00 Ea. | \$5,208.99 | \$5,950.76 | 3.1000 | 3 | 3 | \$17,852.28 | \$17,852.28 | |
| Maintenance and repair battery charger | 2 | 8.00 Ea. | \$2,476.46 | \$3,058.00 | 15.5000 | 15 | 15 | \$45,869.97 | \$45,869.97 | |
| Maintenance and inspection battery charger | 0.25 | 8.00 Ea. | \$1,092.10 | \$1,368.24 | 124.0000 | 124 | 124 | \$169,662.28 | \$169,662.28 | |
| Replace battery charger | 20 | 8.00 Ea. | \$8,505.38 | \$9,841.30 | 1.5500 | 1 | 1 | \$9,841.30 | \$9,841.30 | |
| Maintenance and inspection UPS battery | 0.17 | 36.00 Ea. | \$2,457.23 | \$3,078.55 | 182.3529 | 182 | 182 | \$560,296.01 | \$560,296.01 | |
| Replace motor generator UPS battery | 15 | 36.00 Ea. | \$38,383.71 | \$45,520.85 | 2.0667 | 2 | 2 | \$91,041.71 | \$91,041.71 | |
| Maintenance and repair voice/data outlet | 10 | 46.00 Ea. | \$2,498.87 | \$3,120.71 | 3.1000 | 3 | 3 | \$9,362.14 | \$9,362.14 | |
| Replace voice/data outlet | 20 | 46.00 Ea. | \$1,223.31 | \$1,492.41 | 1.5500 | 1 | 1 | \$1,492.41 | \$1,492.41 | |
| Replace patch panel | 15 | 2.00 Ea. | \$1,772.80 | \$2,133.61 | 2.0667 | 2 | 2 | \$4,267.22 | \$4,267.22 | |
| | | | \$6,852,903.98 | \$8,108,607.99 | | | | MR Subtotal | \$12,095,006.80 | |
| | | | | | | | | | MR Per Year | \$389,730.21 |
| | | | | | | | | | PM Total | \$225,918.71 |
| | | | | | | | | | Subtotal | \$615,648.92 |
| | | | | | | | | | Total Per Unit | \$18.57 |
| | | | | | | | | | Nuclear Certification Factor | 2 |
| | | | | | | | | | Total Per Unit | \$37.14 |

SUC \$37.14

UM SF

Design Life 31

Average Size 33155.038461

| Description | Qty | Labor Hours | Bare Mat | Bare Labor | Bare Equip | Bare Total | Total In-House | Total Incl OP |
|--|-------|-------------|-------------|-------------|------------|-------------|----------------|---------------|
| Emergency diesel generator, turbine, annualized | 2.00 | 33.27 | \$251.44 | \$2,113.55 | \$0.00 | \$2,364.99 | \$3,024.20 | \$3,695.98 |
| Power stablizer, annualized | 4.00 | 2.50 | \$36.64 | \$158.77 | \$0.00 | \$195.41 | \$246.71 | \$299.84 |
| Uninterrupted power system, 200 KVA to 800 KVA, annualized | 6.00 | 468.35 | \$1,357.78 | \$29,538.15 | \$0.00 | \$30,895.93 | \$39,893.15 | \$48,958.26 |
| Battery system and charger, annualized | 2.00 | 17.46 | \$36.82 | \$1,103.17 | \$0.00 | \$1,139.99 | \$1,474.62 | \$1,811.09 |
| Security, intrusion alarm system, annualized | 2.00 | 7.66 | \$298.14 | \$482.51 | \$0.00 | \$780.64 | \$955.21 | \$1,144.68 |
| Light, emergency, wet cell, annualized | 2.00 | 0.78 | \$61.06 | \$49.49 | \$0.00 | \$110.55 | \$131.50 | \$155.51 |
| Hydraulic lift, loading dock, annualized | 4.00 | 6.53 | \$97.10 | \$235.60 | \$0.00 | \$332.70 | \$413.09 | \$498.34 |
| Crane, electric bridge, up to 5 ton, annualized | 4.00 | 11.67 | \$827.29 | \$431.15 | \$0.00 | \$1,258.44 | \$1,470.51 | \$1,723.95 |
| Crane, electric bridge, over 15 tons, annualized | 4.00 | 33.06 | \$1,553.60 | \$1,225.12 | \$0.00 | \$2,778.72 | \$3,301.62 | \$3,902.19 |
| Hoist, pneumatic, annualized | 2.00 | 2.62 | \$374.81 | \$97.18 | \$0.00 | \$471.99 | \$538.63 | \$624.00 |
| Electric slide gate, annualized | 2.00 | 9.53 | \$29.13 | \$493.48 | \$0.00 | \$522.61 | \$673.56 | \$825.98 |
| Fuel oil storage tank, above ground, annualized | 2.00 | 6.55 | \$46.88 | \$339.69 | \$0.00 | \$386.57 | \$493.17 | \$602.10 |
| Cathodic protection system, annualized | 1.00 | 1.46 | \$26.08 | \$83.23 | \$0.00 | \$109.31 | \$136.89 | \$165.77 |
| Door, emergency egress, swinging, annualized | 10.00 | 2.60 | \$167.64 | \$114.83 | \$0.00 | \$282.47 | \$333.68 | \$393.28 |
| Door, overhead, electric, roll up, to 24' high x 25' wide, annualized | 4.00 | 16.28 | \$172.31 | \$719.87 | \$0.00 | \$892.18 | \$1,125.37 | \$1,367.17 |
| Fire doors, swinging, annualized | 6.00 | 2.35 | \$93.99 | \$92.74 | \$0.00 | \$186.73 | \$223.95 | \$265.87 |
| Elevator, cable, electric, passenger / freight, annualized | 6.00 | 287.37 | \$20,099.70 | \$25,668.75 | \$0.00 | \$45,768.45 | \$55,479.05 | \$66,194.62 |
| Wheelchair lift, annualized | 2.00 | 2.42 | \$31.85 | \$216.45 | \$0.00 | \$248.30 | \$316.42 | \$386.13 |
| Dumbwaiter, electric, annualized | 2.00 | 1.27 | \$128.17 | \$112.85 | \$0.00 | \$241.02 | \$287.69 | \$340.78 |
| Pneumatic Tube System, annualized | 2.00 | 2.81 | \$97.10 | \$188.70 | \$0.00 | \$285.80 | \$352.12 | \$423.30 |
| Urinals, annualized | 6.00 | 1.37 | \$39.77 | \$72.99 | \$0.00 | \$112.76 | \$138.63 | \$166.49 |
| Toilet (vacuum breaker type), annualized | 12.00 | 2.12 | \$106.26 | \$113.53 | \$0.00 | \$219.79 | \$264.48 | \$314.48 |
| Lavatories, annualized | 12.00 | 4.18 | \$93.51 | \$261.60 | \$0.00 | \$355.11 | \$442.94 | \$535.45 |
| 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, over 1000 MBH, annualized | 2.00 | 39.40 | \$177.10 | \$2,485.20 | \$0.00 | \$2,662.30 | \$3,425.57 | \$4,197.69 |
| Water cooling tower, 50 thru 500 tons, annualized | 4.00 | 39.65 | \$813.65 | \$2,511.36 | \$0.00 | \$3,325.01 | \$4,159.78 | \$5,035.24 |
| Chiller, centrif., water cooled, up to 100 tons, annualized | 4.00 | 107.08 | \$489.81 | \$6,801.60 | \$0.00 | \$7,291.41 | \$9,380.87 | \$11,494.82 |
| Air handling unit, over 50 tons, annualized | 4.00 | 13.10 | \$1,072.72 | \$697.60 | \$0.00 | \$1,770.32 | \$2,086.87 | \$2,457.06 |
| Air handling unit, computer room, annualized | 2.00 | 6.83 | \$185.20 | \$364.50 | \$0.00 | \$549.69 | \$677.56 | \$814.69 |
| Fan coil unit, annualized | 6.00 | 20.03 | \$491.83 | \$1,072.56 | \$0.00 | \$1,564.39 | \$1,935.34 | \$2,330.89 |
| Air filter, electrostatic, annualized | 12.00 | 91.22 | \$132.98 | \$4,865.76 | \$0.00 | \$4,998.74 | \$6,471.76 | \$7,951.44 |
| VAV Boxes, annualized | 45.00 | 42.03 | \$489.56 | \$2,648.70 | \$0.00 | \$3,138.26 | \$3,981.82 | \$4,849.86 |
| Fire dampers, annualized | 10.00 | 11.57 | \$90.07 | \$732.48 | \$0.00 | \$822.55 | \$1,051.30 | \$1,284.55 |
| Fan, axial, 5,000 to 10,000 CFM, annualized | 4.00 | 5.16 | \$127.51 | \$275.55 | \$0.00 | \$403.06 | \$498.48 | \$600.27 |
| Package unit, computer room, annualized | 2.00 | 8.67 | \$273.24 | \$549.36 | \$0.00 | \$822.60 | \$1,014.73 | \$1,220.53 |
| Controls, central system, electro/pneumatic, annualized | 4.00 | 7.68 | \$676.02 | \$484.83 | \$0.00 | \$1,160.85 | \$1,373.90 | \$1,620.75 |
| Air compressor, centrifugal, over 40 H.P., annualized | 2.00 | 29.78 | \$183.17 | \$1,874.80 | \$0.00 | \$2,057.97 | \$2,638.73 | \$3,228.65 |
| Backflow prevention device, up to 4", annualized | 1.00 | 0.33 | \$14.02 | \$20.93 | \$0.00 | \$34.94 | \$42.62 | \$51.01 |
| 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 |
| Fire pump, motor/engine driven, annualized | 2.00 | 139.73 | \$380.51 | \$8,763.60 | \$0.00 | \$9,144.11 | \$11,811.24 | \$14,497.40 |
| Extinguishing system, foam pump electric, annualized | 2.00 | 35.44 | \$657.80 | \$1,918.40 | \$0.00 | \$2,576.20 | \$3,217.50 | \$3,891.69 |
| Extinguishing system, FM200, annualized | 4.00 | 37.04 | \$2,570.48 | \$1,970.72 | \$0.00 | \$4,541.20 | \$5,389.46 | \$6,366.25 |
| Switchboard, with air circuit breaker, annually | 2.00 | 8.52 | \$31.97 | \$591.79 | \$0.00 | \$623.76 | \$804.50 | \$986.83 |
| Switchboard, with air circuit breaker, annualized | 2.00 | 26.64 | \$31.97 | \$1,855.80 | \$0.00 | \$1,887.77 | \$2,447.71 | \$3,009.24 |
| Circuit breaker, high voltage air, annualized | 2.00 | 0.94 | \$27.66 | \$64.95 | \$0.00 | \$92.61 | \$114.86 | \$138.50 |
| Switch, selector, high voltage, air, annualized | 1.00 | 0.41 | \$13.83 | \$28.35 | \$0.00 | \$42.18 | \$52.07 | \$62.65 |
| Switch, automatic transfer, annualized | 2.00 | 10.63 | \$27.66 | \$742.32 | \$0.00 | \$769.98 | \$995.44 | \$1,222.29 |
| Transformer, dry type 500 KVA and over, annualized | 4.00 | 3.08 | \$55.32 | \$214.45 | \$0.00 | \$269.76 | \$339.63 | \$412.26 |

| Description | Qty | Labor Hours | Bare Mat | Bare Labor | Bare Equip | Bare Total | Total In-House | Total Incl OP |
|--|-------|-------------|----------|------------|------------|--------------|----------------|---------------|
| Panelboard, 225 A and above, annualized | 10.00 | 4.41 | \$220.01 | \$304.14 | \$0.00 | \$524.15 | \$637.40 | \$761.64 |
| Motor control center, over 400 A, annualized | 1.00 | 0.39 | \$22.00 | \$26.81 | \$0.00 | \$48.81 | \$59.05 | \$70.39 |
| Fire alarm annunciator system, annualized | 1.00 | 11.05 | \$163.44 | \$695.92 | \$0.00 | \$859.36 | \$1,084.48 | \$1,317.78 |
| | | | | | | \$149,013.12 | \$186,572.90 | \$225,918.71 |

FAC 2126 INTERCONTINENTAL BALLISTIC MISSILE PROCESSING FACILITY

Modeled Component List CostWorks Release 2023 Qtr 4

| | |
|---|--------------|
| B10 Superstructure | |
| Metal Stairs | 2080.0 S.F. |
| Railing, Metal | 728.0 L.F. |
| Metal Fire Escapes | 180.0 V.L.F. |
| B20 Exterior Enclosure | |
| Steel Louver, 1st floor | 4.0 Ea. |
| Aluminum Frame Storm Window, 1st floor | 54.0 Ea. |
| Aluminum Frame Storm Window, 2nd floor | 54.0 Ea. |
| Steel, Painted | 10.0 Ea. |
| Steel Single, Roll-Up | 4.0 Ea. |
| Hinges, Brass | 10.0 Ea. |
| Lockset, Brass | 10.0 Ea. |
| Door Closer, Brass | 10.0 Ea. |
| B30 Roofing | |
| Thermosetting | 331.0 Sq. |
| C10 Interior Construction | |
| Steel Painted Interior Doors | 10.0 Ea. |
| Solid Core Interior Doors | 35.0 Ea. |
| Hinges, Brass | 45.0 Ea. |
| Lockset, Brass | 45.0 Ea. |
| Door Closer, Brass | 45.0 Ea. |
| Panic Bar | 6.0 Ea. |
| Toilet Partitions, painted metal | 12.0 Ea. |
| Fire Doors, Swinging, annualized | 6.0 Each |
| C30 Interior Finishes | |
| Epoxy Flooring | 211.0 C.S.F. |
| Carpet | 501.0 S.Y. |
| Acoustic Tile, fire-rated | 90.0 C.S.F. |
| D20 Plumbing | |
| Tankless Water Closet | 12.0 Ea. |
| Urinal | 6.0 Ea. |
| Lavatory, Iron, Enamel | 12.0 Ea. |
| Service/Utility Sink | 4.0 Ea. |
| Shower, Fiberglass | 8.0 Ea. |
| Drinking Fountain | 4.0 Ea. |
| Emergency Shower Station | 4.0 Ea. |
| Emergency Eye Wash | 4.0 Ea. |
| Storage Tank, Domestic Hot Water | 2.0 Ea. |
| Circulation Pump, Bronze 1 HP | 2.0 Ea. |
| Drain: Roof, Scupper, Area | 3.0 Ea. |
| Rainwater Sump Pump | 1.0 Ea. |
| D30 HVAC | |
| Boiler, Gas, 2000 MBH | 2.0 Ea. |
| Blowoff System | 2.0 Ea. |
| Chemical Feed System | 2.0 Ea. |
| Feed Water Supply | 2.0 Ea. |
| Deaerator | 2.0 Ea. |
| Metal Flue / Chimney, 6" diameter | 2.0 L.F. |
| Cooling Tower, 100 ton | 4.0 Ea. |
| Chiller, Water Cooled, Reciprocating, 100 ton | 4.0 Ea. |
| Exhaust Fan, roof mounted exhaust fan, 800 CFM exhaust | 4.0 Ea. |
| Exhaust Fan, roof mounted exhaust fan, 8500 CFM exhaust | 2.0 Ea. |

| | |
|--|------------|
| Exhaust Fan, axial flow, 3800 CFM | 2.0 Ea. |
| Computer Room A/C Units, Chilled Water, 5 ton | 2.0 Ea. |
| Central Station Air Conditioning Air Handling Unit, 8000 CFM | 4.0 Ea. |
| Central Station Air Conditioning Air Handling Unit, 33,500 CFM | 4.0 Ea. |
| VAV Box | 45.0 Each |
| D40 Fire Protection | |
| Backflow Preventer | 2.0 Ea. |
| Sprinkler System, Fire Suppression, sprinkler head | 150.0 Ea. |
| Fire Pump, Electric, annualized | 2.0 Each |
| Fire Pump, Engine, annualized | 2.0 Each |
| Extinguishing system, FM200 | 4.0 Each |
| D50 Electrical | |
| Switchgear, Mainframe | 4.0 Ea. |
| Switchgear, Indoor, Less Than 600 V | 4.0 Ea. |
| Inverter | 2.0 Ea. |
| Rectifier, Up To 600 V | 2.0 Ea. |
| Motor Starter, Up To 600 V | 10.0 Ea. |
| Secondary Transformer, Dry, 500 KVA | 2.0 Ea. |
| Load Center, 100 A, maintenance & inspection | 4.0 Ea. |
| Circuit Breaker, molded case, 480 V, 1 pole | 168.0 Ea. |
| Circuit Breaker, molded case, 480 V, 3 pole | 4.0 Ea. |
| Safety Switch, Heavy Duty | 14.0 Ea. |
| Smoke Detector | 75.0 Ea. |
| Heat Detector | 75.0 Ea. |
| Fire Alarm Control Panel | 6.0 Ea. |
| Fire Alarm Bell | 30.0 Ea. |
| Electrical Service Ground | 1.0 M.L.F. |
| Lightning Protection System | 1.0 M.L.F. |
| Lightning Ground Rod | 6.0 Ea. |
| Computer Ground System | 1.0 M.L.F. |
| Special Ground System | 1.0 M.L.F. |
| Generator, Diesel, 750 KW | 2.0 Ea. |
| Transfer Switch | 2.0 Ea. |
| Exit Light | 30.0 Ea. |
| Battery Charger | 8.0 Ea. |
| UPS Battery, maintenance & inspection | 36.0 Ea. |
| UPS Battery, replace motor | 36.0 Ea. |
| UPS, 200 KVA to 800 KVA, annualized | 6.0 Each |
| E10 Equipment | |
| Hydraulic Lift, Loading Dock, annualized | 4.0 Each |
| Crane, Electric, up to 5 ton, annualized | 4.0 Each |
| Crane, Electric, over 15 ton, annualized | 4.0 Each |
| Hoist, pneumatic, annualized | 2.0 Each |
| G20 Site Improvements | |
| Gate, Electric slide, annualized | 2.0 Each |
| G30 Site Mechanical Utilities | |
| Fuel Oil Storage Tank, annualized | 2.0 Each |
| G40 Site Electrical Utilities | |
| Cathodic Protection, annualized | 1.0 Each |
| D10 Conveying | |
| Elevator, cable annualized | 6.0 Each |
| Wheelchair lift, annualized | 2.0 Each |
| Dumbwaiter, electric annualized | 2.0 Each |
| Pneumatic Tube System, annualized | 2.0 Each |

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Sustainment by Year
CostWorks Release 2023 Qtr 4

