

**FAC 1402     Air Defense Operations Building**

RUC:                \$296.89 SF

Source:            USACE PAX Newsletter 3.2.2 dated 20 Mar 09  
CC 141xx C2F  
Deflated to FY-09 using Appendix C  
In V12, Tri-Service and USACE PAX Newsletter values were updated while  
all other values were inflated only.

SUC:                \$3.04 SF

Source: Cost Works model, inflated to FY-09 using Green Book Table 5-6  
(O&M less DHP)  
In V12, values were inflated only.

Model follows:

Chart:             A chart showing relative annual sustainment requirements  
follows:

**FAC 1402-Air Defense Operations Building**  
**CostWorks 2008 Quarter 2**

Design Life= 50  
Average S.F= 9,024

C.S.F=100 S.F; MSF=1000 S.F  
Sq=100 S.F; M.L.F=1000 L.F

This spreadsheet was  
exported from R.S Means  
CostWorks

Terminal Cutoff is the removal of a single task occurrence if that task occurs within  
10% of the end of the design life and if the frequency of the task exceeds 20% of  
the design life. This prevents scheduling major work near the end of the design life

Description	Frequency	Crew	Qty	Unit	Total In-House	Total Incl. O&P	Release	Occurrences in Design Life	Adjusted Occurrences	Terminal Cutoff
Repair brick wall - 1st floor	25	1 Bric	160.600	S.F.	5,942.20	7,220.58	2008 Qtr 2	2	1	\$ 7,220.58
Replace brick wall - 2nd floor	75	2 Bric	16.060	C.S.F.	32,852.18	39,420.72	2008 Qtr 2	0	0	\$ -
Repair 8" concrete block wall - 1st floor	25	1 Bric	322.500	S.F.	6,469.35	7,869.00	2008 Qtr 2	2	1	\$ 7,869.00
Replace 8" concrete block wall - 1st floor	60	2 Bric	32.250	C.S.F.	32,084.56	38,621.63	2008 Qtr 2	0	0	\$ -
Replace 8" concrete block wall - 2nd floor	60	2 Bric	29.880	C.S.F.	31,707.76	38,201.58	2008 Qtr 2	0	0	\$ -
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	1 Carp	10.000	Ea.	1,149.60	1,362.00	2008 Qtr 2	2	2	\$ 2,724.00
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	1 Carp	100.000	Ea.	43,860.00	51,299.00	2008 Qtr 2	1	0	\$ -
Replace glass - 1st floor (1% of glass)	1	1 Carp	6.000	S.F.	54.30	63.72	2008 Qtr 2	50	50	\$ 3,186.00
Repair 2'-0" x 3'-0" aluminum window - 2nd floor	20	1 Carp	10.800	Ea.	1,659.96	1,991.74	2008 Qtr 2	2	2	\$ 3,983.47
Replace 2'-0" x 3'-0" aluminum window - 2nd floor	50	1 Carp	108.000	Ea.	51,553.80	60,610.68	2008 Qtr 2	1	0	\$ -
Replace glass - 2nd floor (1% of glass)	1	1 Carp	6.480	S.F.	566.35	693.68	2008 Qtr 2	50	50	\$ 34,684.20
Prepare and refinish 3'-0" x 7'-0" steel ptd. door	4	1 Pord	1.000	Ea.	65.21	80.74	2008 Qtr 2	12	12	\$ 968.88
Replace 3'-0" x 7'-0" steel, w/ wire glass, ptd. door	45	1 Carp	1.000	Ea.	939.96	1,095.60	2008 Qtr 2	1	1	\$ 1,095.60
Replace tempered glass - (3% of glass)	1	1 Carp	0.630	S.F.	12.16	14.46	2008 Qtr 2	50	50	\$ 723.24
Repair steel, painted, door	14	1 Carp	0.400	Ea.	232.98	274.54	2008 Qtr 2	3	3	\$ 823.63
Refinish 3'-0" x 7'-0" steel, painted, door	4	1 Pord	4.000	Ea.	131.64	161.24	2008 Qtr 2	12	12	\$ 1,934.88
Replace 3'-0" x 7'-0" steel, painted, door	45	1 Carp	4.000	Ea.	2,128.32	2,480.16	2008 Qtr 2	1	1	\$ 2,480.16
Debris removal and visual inspection built-up roofing	0.5	2 Rofc	4.512	M.S.F.	132.38	159.50	2008 Qtr 2	100	100	\$ 15,949.92
Non-destructive moisture inspection built-up roofing	5	2 Rofc	4.512	M.S.F.	409.60	495.42	2008 Qtr 2	10	10	\$ 4,954.18
Place new membrane over existing built-up roofing	20	G5	45.120	Sq.	15,537.97	18,365.64	2008 Qtr 2	2	2	\$ 36,731.29
Minor membrane repairs - (2% of roof area) built-up roofing	1	G5	0.902	Sq.	310.76	367.15	2008 Qtr 2	50	50	\$ 18,357.50
Flashing repairs - (2 S.F. per sq. repaired) built-up roofing	1	2 Rofc	1.805	S.F.	6.06	7.22	2008 Qtr 2	50	50	\$ 361.00
Minor membrane replacement - (25% of roof area) built-up roofing	15	G5	11.280	Sq.	6,705.17	7,998.42	2008 Qtr 2	3	3	\$ 23,995.27
Debris removal by hand & visual inspection,modified bitum/thermoplastc	1	2 Rofc	2.256	M.S.F.	66.19	79.75	2008 Qtr 2	50	50	\$ 3,987.48
Non-destructive moisture inspection,modified bitum/thermoplastic	5	2 Rofc	2.256	M.S.F.	204.80	247.71	2008 Qtr 2	10	10	\$ 2,477.09
Total roof replacement,modified bituminous / thermoplastic	25	G1	22.560	Sq.	10,983.11	12,983.51	2008 Qtr 2	2	1	\$ 12,983.51
Minor membrane repairs-(2% of roof area),modified bitum/thermoplastic	1	G5	0.451	Sq.	120.32	141.95	2008 Qtr 2	50	50	\$ 7,097.39
Flashing repairs-(2 S.F. per sq. repaired),modified bitum/thermoplastc	1	2 Rofc	0.902	S.F.	2.99	3.53	2008 Qtr 2	50	50	\$ 176.34
Membrane replacement-(25% of roof area),modified bitum/thermoplastic	20	G5	5.640	Sq.	3,591.27	4,257.64	2008 Qtr 2	2	2	\$ 8,515.27
Repair steel painted interior door	14	1 Carp	0.400	Ea.	67.10	79.26	2008 Qtr 2	3	3	\$ 237.77
Refinish 3'-0" x 7'-0" steel painted interior door	4	1 Pord	4.000	Ea.	197.60	243.28	2008 Qtr 2	12	12	\$ 2,919.36
Replace 3'-0" x 7'-0" steel painted interior door	60	1 Carp	4.000	Ea.	3,750.16	4,359.84	2008 Qtr 2	0	0	\$ -
Repair solid core wood door interior	11	1 Carp	4.800	Ea.	805.20	951.07	2008 Qtr 2	4	4	\$ 3,804.29
Refinish 3'-0" x 7'-0" solid core wood door interior	4	1 Pord	48.000	Ea.	2,026.56	2,495.04	2008 Qtr 2	12	12	\$ 29,940.48
Replace 3'-0" x 7'-0" solid core wood door interior	40	1 Carp	48.000	Ea.	17,601.60	20,405.76	2008 Qtr 2	1	1	\$ 20,405.76
Repair concrete steps	15	1 Cefi	3.300	S.F.	56.07	65.27	2008 Qtr 2	3	3	\$ 195.82

**FAC 1402-Air Defense Operations Building**  
**CostWorks 2008 Quarter 2**

Design Life= 50  
Average S.F= 9,024

C.S.F=100 S.F; MSF=1000 S.F  
Sq=100 S.F; M.L.F=1000 L.F

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CostWorks

Terminal Cutoff is the removal of a single task occurrence if that task occurs within  
10% of the end of the design life and if the frequency of the task exceeds 20% of  
the design life. This prevents scheduling major work near the end of the design life

Description	Frequency	Crew	Qty	Unit	Total In-House	Total Incl. O&P	Release	Occurrences in Design Life	Adjusted Occurrences	Terminal Cutoff
Replace concrete steps	100	2 Cefi	33.000	S.F.	1,633.83	1,982.97	2008 Qtr 2	0	0	\$ -
Replace metal stair railing interior	45	2 Sswk	37.000	L.F.	1,327.19	1,533.28	2008 Qtr 2	1	1	\$ 1,533.28
Repair fabric wall finish fabric interior	9	1 Pord	344.000	S.Y.	8,665.36	10,495.44	2008 Qtr 2	5	5	\$ 52,477.20
Replace fabric wall finish fabric interior	50	1 Pord	344.000	S.Y.	48,342.32	58,982.24	2008 Qtr 2	1	0	\$ -
Refinish drywall	8	1 Pord	18,473.000	S.F.	11,083.80	13,670.02	2008 Qtr 2	6	6	\$ 82,020.12
Replace 5/8" drywall	75	2 Carp	18,473.000	S.F.	41,194.79	49,692.37	2008 Qtr 2	0	0	\$ -
Repair 5/8" drywall - (2% of walls)	20	1 Carp	369.500	S.F.	587.51	705.75	2008 Qtr 2	2	2	\$ 1,411.49
Replace carpet	12	2 Tilf	416.100	S.Y.	18,778.59	21,695.45	2008 Qtr 2	4	3	\$ 65,086.36
Refinish concrete floor finished	25	2 Cefi	43.880	C.S.F.	15,333.43	18,459.88	2008 Qtr 2	2	1	\$ 18,459.88
Replace terrazzo floor	75	2 Mstz	6.090	C.S.F.	8,769.23	10,385.09	2008 Qtr 2	0	0	\$ -
Terrazzo floor repairs - (2% of floors)	15	1 Mstz	12.180	S.F.	182.94	218.51	2008 Qtr 2	3	3	\$ 655.53
Replace vinyl floor	18	1 Tilf	31.330	S.Y.	1,496.01	1,826.54	2008 Qtr 2	2	2	\$ 3,653.08
Replace acoustic tile ceiling, fire-rated	20	1 Carp	44.670	C.S.F.	18,008.71	21,396.93	2008 Qtr 2	2	2	\$ 42,793.86
Refinish sheetrock ceiling	20	1 Pord	5.750	C.S.F.	722.60	892.92	2008 Qtr 2	2	2	\$ 1,785.84
Replace sheetrock ceiling	40	2 Carp	5.750	C.S.F.	2,060.40	2,515.68	2008 Qtr 2	1	1	\$ 2,515.68
Repair sheetrock ceiling - (2% of ceilings)	20	1 Carp	0.115	C.S.F.	40.16	49.02	2008 Qtr 2	2	2	\$ 98.04
Resolder joint pipe & fittings, copper	10	1 Plum	2.000	Ea.	65.70	80.90	2008 Qtr 2	5	5	\$ 404.50
Replace pipe and fittings, copper 3/4"	20	2 Plum	16.000	L.F.	283.52	343.68	2008 Qtr 2	2	2	\$ 687.36
Replace pipe and fittings, copper 2"	25	2 Plum	8.000	L.F.	326.48	392.88	2008 Qtr 2	2	1	\$ 392.88
Remove old insulation & replace with new, pipe 3/4", wall 1"	15	1 Plum	16.000	L.F.	112.16	136.64	2008 Qtr 2	3	3	\$ 409.92
Replace pipe & fittings, cast iron	40	2 Plum	16.000	L.F.	670.40	811.20	2008 Qtr 2	1	1	\$ 811.20
Unclog main drain pipe & fittings, cast iron	10	1 Plum	1.000	Ea.	35.62	44.41	2008 Qtr 2	5	5	\$ 222.05
Replace pipe, 4" pipe and fittings, PVC	30	2 Plum	8.000	L.F.	473.60	585.52	2008 Qtr 2	1	1	\$ 585.52
Repair joint pipe and fittings, PVC	10	1 Plum	1.000	Ea.	115.94	144.14	2008 Qtr 2	5	5	\$ 720.70
Unclog floor drain, PVC	20	1 Plum	1.000	Ea.	37.09	45.87	2008 Qtr 2	2	2	\$ 91.74
Drain and flush water heater, electric, 120 gallon	7	1 Plum	1.000	Ea.	226.43	283.04	2008 Qtr 2	7	7	\$ 1,981.28
Check operation water heater, electric, 120 gallon	3	1 Plum	1.000	Ea.	1.98	2.48	2008 Qtr 2	16	16	\$ 39.68
Replace water heater, electric, 120 gallon	15	2 Plum	1.000	Ea.	9,192.45	10,543.79	2008 Qtr 2	3	3	\$ 31,631.37
Check / minor repairs drinking fountain	1	1 Plum	3.000	Ea.	112.74	142.02	2008 Qtr 2	50	50	\$ 7,101.00
Repair internal leaks drinking fountain	4	1 Plum	3.000	Ea.	105.42	130.29	2008 Qtr 2	12	12	\$ 1,563.48
Correct water pressure drinking fountain	2	1 Plum	3.000	Ea.	96.63	121.50	2008 Qtr 2	25	25	\$ 3,037.50
Replace refrigerant drinking fountain	2	1 Plum	3.000	Ea.	47.52	56.58	2008 Qtr 2	25	25	\$ 1,414.50
Repair drain leak drinking fountain	4	1 Plum	3.000	Ea.	67.89	81.09	2008 Qtr 2	12	12	\$ 973.08
Replace fountain drinking fountain	10	2 Plum	3.000	Ea.	3,017.52	3,580.71	2008 Qtr 2	5	5	\$ 17,903.55
Replace washer in spud connection lavatory, vitreous china	7	1 Plum	10.000	Ea.	240.10	283.30	2008 Qtr 2	7	7	\$ 1,983.10
Replace washer in faucet lavatory, vitreous china	2	1 Plum	10.000	Ea.	98.50	122.90	2008 Qtr 2	25	25	\$ 3,072.50

**FAC 1402-Air Defense Operations Building**  
**CostWorks 2008 Quarter 2**

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Sq=100 S.F; M.L.F=1000 L.F

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Description	Frequency	Crew	Qty	Unit	Total In-House	Total Incl. O&P	Release	Occurrences in Design Life	Adjusted Occurrences	Terminal Cutoff
Replace faucets lavatory, vitreous china	10	1 Plum	10.000	Ea.	1,234.90	1,490.60	2008 Qtr 2	5	5 \$	7,453.00
Clean out strainer and P trap lavatory, vitreous china	2	1 Plum	10.000	Ea.	270.40	335.70	2008 Qtr 2	25	25 \$	8,392.50
Replace lavatory, vitreous china	35	2 Plum	10.000	Ea.	5,301.90	6,357.00	2008 Qtr 2	1	1 \$	6,357.00
Replace faucet washer sink, iron enamel	2	1 Plum	1.000	Ea.	9.79	12.19	2008 Qtr 2	25	25 \$	304.75
Clean trap sink, iron enamel	3	1 Plum	1.000	Ea.	6.60	8.25	2008 Qtr 2	16	16 \$	132.00
Replace faucets sink, iron enamel	10	1 Plum	1.000	Ea.	123.49	149.06	2008 Qtr 2	5	5 \$	745.30
Unstop sink sink, iron enamel	2	1 Plum	1.000	Ea.	32.21	40.50	2008 Qtr 2	25	25 \$	1,012.50
Replace sink, P.E.C.I. sink, iron enamel	35	2 Plum	1.000	Ea.	552.72	657.69	2008 Qtr 2	1	1 \$	657.69
Replace flush valve diaphragm tankless water closet	10	1 Plum	10.000	Ea.	707.40	830.60	2008 Qtr 2	5	5 \$	4,153.00
Rebuild flush valve tankless water closet	20	1 Plum	10.000	Ea.	1,319.80	1,600.10	2008 Qtr 2	2	2 \$	3,200.20
Unplug clogged line tankless water closet	5	1 Plum	10.000	Ea.	1,682.60	2,101.80	2008 Qtr 2	10	10 \$	21,018.00
Replace tankless water closet	35	2 Plum	10.000	Ea.	5,480.00	6,483.60	2008 Qtr 2	1	1 \$	6,483.60
Replace tankless flush valve	25	1 Plum	10.000	Ea.	2,095.00	2,453.70	2008 Qtr 2	2	1 \$	2,453.70
Replace wax ring gasket tankless water closet	5	1 Plum	10.000	Ea.	1,095.70	1,372.00	2008 Qtr 2	10	10 \$	13,720.00
Replace flush valve diaphragm urinal	7	1 Plum	4.000	Ea.	282.96	332.24	2008 Qtr 2	7	7 \$	2,325.68
Rebuild flush valve urinal	20	1 Plum	4.000	Ea.	527.92	640.04	2008 Qtr 2	2	2 \$	1,280.08
Unplug line urinal	5	1 Plum	4.000	Ea.	448.56	559.64	2008 Qtr 2	10	10 \$	5,596.40
Replace wall-hung urinal	35	2 Plum	4.000	Ea.	3,366.52	4,026.28	2008 Qtr 2	1	1 \$	4,026.28
Inspect / check pump / motor operation, lub. circulation pump, 1/12 HP	0.5	1 Plum	1.000	Ea.	6.19	7.72	2008 Qtr 2	100	100 \$	772.00
Replace pump / motor assembly circulation pump, 1/12 HP	10	2 Plum	1.000	Ea.	736.33	863.29	2008 Qtr 2	5	5 \$	4,316.45
General maintenance & repair drain: roof, scupper, area	1	1 Plum	2.000	Ea.	56.70	71.34	2008 Qtr 2	50	50 \$	3,567.00
Replace drain: roof, scupper, area	40	1 Plum	2.000	Ea.	796.68	936.28	2008 Qtr 2	1	1 \$	936.28
Replace single zone rt. unit, 5 ton	15	Q5	2.000	Ea.	14,553.76	17,177.20	2008 Qtr 2	3	3 \$	51,531.60
Repair single zone rt. unit, 5 ton	10	2 Stpi	1.000	Ea.	1,929.71	2,314.56	2008 Qtr 2	5	5 \$	11,572.80
Replace sprinkler head	20	1 Plum	70.000	Ea.	4,457.60	5,492.20	2008 Qtr 2	2	2 \$	10,984.40
Inspect sprinkler system	1	1 Plum	1.000	Ea.	26.55	32.89	2008 Qtr 2	50	50 \$	1,644.50
Rebuild double check 3" backflow preventer sprinkler system	5	1 Plum	1.000	Ea.	598.06	715.83	2008 Qtr 2	10	10 \$	7,158.30
Replace fire alarm bell, 6"	20	1 Elec	3.000	Ea.	426.84	514.53	2008 Qtr 2	2	2 \$	1,029.06
Repair failed breaker, 3 pole circuit breaker	10	1 Elec	1.000	Ea.	342.23	400.69	2008 Qtr 2	5	5 \$	2,003.45
Maintenance and inspection C.B., 3 pole circuit breaker	0.33	1 Elec	1.000	Ea.	22.91	28.50	2008 Qtr 2	151	151 \$	4,303.50
Replace C.B. molded case, 600 V, 3 pole circuit breaker	50	1 Elec	1.000	Ea.	3,157.74	3,611.55	2008 Qtr 2	1	0 \$	-
Maintenance and inspection lighting panel, indoor	3	1 Elec	1.000	Ea.	28.50	35.63	2008 Qtr 2	16	16 \$	570.08
Repair switchgear 1200 A mainframe	5	1 Elec	1.000	Ea.	1,694.09	1,975.10	2008 Qtr 2	10	10 \$	19,751.00
Maintenance and inspection switchgear, mainframe	1	1 Elec	1.000	Ea.	45.81	57.01	2008 Qtr 2	50	50 \$	2,850.50
Replace switchgear 1200 A mainframe	20	3 Elec	1.000	Ea.	4,052.28	4,808.24	2008 Qtr 2	2	2 \$	9,616.48
Maintenance and repair motor starter, up to 600 V	5	1 Elec	4.000	Ea.	683.00	830.00	2008 Qtr 2	10	10 \$	8,300.00

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Maintenance and inspection motor starter, up to 600 V	0.5	1 Elec	4.000	Ea.	152.68	191.40	2008 Qtr 2	100	100	\$ 19,140.00
Replace starter motor starter, up to 600 V	18	1 Elec	4.000	Ea.	2,112.72	2,521.64	2008 Qtr 2	2	2	\$ 5,043.28
Replace fluor. ballast for fluorescent lighting fixture, 80 W	10	1 Elec	97.000	Ea.	9,659.26	11,647.76	2008 Qtr 2	5	5	\$ 58,238.80
Replace lamps (2 lamps) fluorescent lighting fixture, 80 W	10	1 Elec	97.000	Ea.	2,467.68	3,024.46	2008 Qtr 2	5	5	\$ 15,122.30
Maintenance and repair incandescent lighting fixtures	10	1 Elec	7.000	Ea.	330.96	394.73	2008 Qtr 2	5	5	\$ 1,973.65
Replace lamp incandescent lighting fixtures	5	1 Elec	7.000	Ea.	48.86	59.64	2008 Qtr 2	10	10	\$ 596.40
Maintenance and repair receptacles and plugs	20	1 Elec	446.000	Ea.	13,866.14	17,273.58	2008 Qtr 2	2	2	\$ 34,547.16
Replace receptacle/plug receptacles and plugs	20	1 Elec	446.000	Ea.	23,530.96	28,731.32	2008 Qtr 2	2	2	\$ 57,462.64
Maintenance and repair wiring devices, switches	10	1 Elec	170.000	Ea.	5,285.30	6,584.10	2008 Qtr 2	5	5	\$ 32,920.50
Replace switch wiring devices, switches	15	1 Elec	170.000	Ea.	8,705.70	10,599.50	2008 Qtr 2	3	3	\$ 31,798.50
Check and repair manual pull station	10	1 Elec	2.000	Ea.	138.42	169.74	2008 Qtr 2	5	5	\$ 848.70
Replace manual pull station	15	1 Elec	2.000	Ea.	251.48	303.78	2008 Qtr 2	3	3	\$ 911.34
Repair smoke detector	10	1 Elec	18.000	Ea.	687.42	846.00	2008 Qtr 2	5	5	\$ 4,230.00
Check operation smoke detector	1	1 Elec	18.000	Ea.	205.20	257.40	2008 Qtr 2	50	50	\$ 12,870.00
Replace smoke detector	15	1 Elec	18.000	Ea.	3,411.90	4,085.82	2008 Qtr 2	3	3	\$ 12,257.46
					<b>\$596,547.94</b>	<b>\$713,617.47</b>				
										MR Subtotal \$ 1,126,480.42
										MR Per Year \$ 22,529.61
										PM Per Year \$ 5,850.73
										Subtotal \$ 28,380.34
										Total Per Unit \$ 3.14

**CostWorks 2009 Quarter 1 - FAC 1402-Air Defense Operations Building**

Qty	Assembly Number	Description	Total In-House	Total Incl. O&P	Zip Code Prefix	Type	Release
53.000	B2035 225 1950	Door, emergency egress, swinging, annualized	2,624.03	3,048.03	200	FMR	2008 Qtr 2
4.000	C1025 110 1950	Fire doors, swinging, annualized	99.56	119.44	200	FMR	2008 Qtr 2
4.000	D2015 100 1950	Urinals, annualized	51.72	64.60	200	FMR	2008 Qtr 2
10.000	D2015 100 2950	Toilet (vacuum breaker type), annualized	129.30	161.50	200	FMR	2008 Qtr 2
10.000	D2015 100 4950	Lavatories, annualized	246.80	300.80	200	FMR	2008 Qtr 2
3.000	D2015 800 1950	Drink fountain, annualized	148.50	178.08	200	FMR	2008 Qtr 2
4.000	D3045 160 1950	VAV Boxes, annualized	245.24	304.00	200	FMR	2008 Qtr 2
2.000	D3055 210 1950	Package unit, air cooled, 3 thru 24 ton, annualized	415.42	502.06	200	FMR	2008 Qtr 2
1.000	D4015 100 1950	Backflow prevention device, up to 4", annualized	18.89	23.42	200	FMR	2008 Qtr 2
1.000	D4015 150 1950	Extinguishing system, wet pipe, annualized	806.79	983.35	200	FMR	2008 Qtr 2
1.000	D5015 220 1950	Circuit breaker, high voltage air, annualized	26.98	33.59	200	FMR	2008 Qtr 2
1.000	D5015 260 1950	Panelboard, 225 A and above, annualized	56.96	67.71	200	FMR	2008 Qtr 2
1.000	D5015 280 1950	Motor control center, over 400 A, annualized	53.91	64.15	200	FMR	2008 Qtr 2
			<b>\$4,924.10</b>	<b>\$5,850.73</b>			



# FAC 1402 Sustainment by Year - Terminal Cutoff Applied

