

FAC 2153 Special Weapon Maintenance Shop

RUC: \$202.47 SF

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

SUC \$2.59 SF

Source: FY-08 CostWorks model, inflated to FY-09 using Green Book Table 5-6 O&M less
DHP.
In V12, values were inflated only.

Chart: A chart showing relative annual sustainment requirements
follows:

FAC 2153 Special Weapon Maintenance Shop
CostWorks 2008 Quarter 2

Design Life = 50

C.S.F.=100 S.F; MSF=1000 S.F

Average S.F. = 5,384.00

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 ocurence 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	Occurences In Design Life	Adjusted Occurences	Terminal Cutoff
Point & refinish block wall - 1st floor	25	1 Bric	32.000	C.S.F.	11,887.68	14,595.20	2008 Qtr 2	2	1	\$ 14,595.20
Replace aluminum siding - 2nd floor	35	1 Carp	25.400	C.S.F.	14,324.33	17,258.79	2008 Qtr 2	1	1	\$ 17,258.79
Refinish aluminum siding - 2nd floor	20	1 Pord	25.400	C.S.F.	5,970.78	7,324.60	2008 Qtr 2	2	2	\$ 14,649.20
Refinish 12' x 24' steel double roll-up door	12	1 Pord	2.000	Ea.	677.06	824.04	2008 Qtr 2	4	3	\$ 2,472.12
Replace 12' x 24' steel double roll-up door	35	2 Carp	2.000	Ea.	13,302.80	15,441.28	2008 Qtr 2	1	1	\$ 15,441.28
Repair steel, painted, door	14	1 Carp	0.200	Ea.	116.49	137.27	2008 Qtr 2	3	3	\$ 411.82
Refinish 3'-0" x 7'-0" steel, painted, door	12	1 Pord	2.000	Ea.	65.82	80.62	2008 Qtr 2	4	3	\$ 241.86
Replace 3'-0" x 7'-0" steel, painted, door	45	1 Carp	2.000	Ea.	1,064.16	1,240.08	2008 Qtr 2	1	1	\$ 1,240.08
Debris removal by hand & visual inspection metal steep roofing	1	2 Rofc	4.400	M.S.F.	78.10	94.16	2008 Qtr 2	50	50	\$ 4,708.00
Minor finish repairs - (2% of roof area) metal steep roofing	5	2 Rofc	88.100	S.F.	238.75	283.68	2008 Qtr 2	10	10	\$ 2,836.82
Flashing replacement - (2 S.F. per sq. repaired) metal steep roofing	5	2 Rofc	1.700	S.F.	24.55	29.46	2008 Qtr 2	10	10	\$ 294.61
Minor replacement - (2.5% of roof area) metal steep roofing	20	2 Rofc	110.100	S.F.	984.29	1,169.26	2008 Qtr 2	2	2	\$ 2,338.52
Total metal panel replacement metal steep roofing	30	2 Rofc	44.000	Sq.	29,142.52	34,650.44	2008 Qtr 2	1	1	\$ 34,650.44
Repair steel painted interior door	14	1 Carp	1.000	Ea.	167.75	198.14	2008 Qtr 2	3	3	\$ 594.42
Refinish 3'-0" x 7'-0" steel painted interior door	4	1 Pord	10.000	Ea.	494.00	608.20	2008 Qtr 2	12	12	\$ 7,298.40
Replace 3'-0" x 7'-0" steel painted interior door	60	1 Carp	10.000	Ea.	9,375.40	10,899.60	2008 Qtr 2	0	0	\$ -
Replace insulating glass (3% of glass) fully glazed wooden doors	1	1 Carp	0.200	S.F.	9.08	10.64	2008 Qtr 2	50	50	\$ 532.20
Repair fully glazed wood door	10	1 Carp	0.200	Ea.	33.55	39.63	2008 Qtr 2	5	5	\$ 198.14
Refinish 3'-0" x 7'-0" fully glazed wood door	4	1 Pord	2.000	Ea.	138.44	170.78	2008 Qtr 2	12	12	\$ 2,049.36
Replace 3'-0" x 7'-0" fully glazed wood door	40	1 Carp	2.000	Ea.	1,962.04	2,294.52	2008 Qtr 2	1	1	\$ 2,294.52
Repair concrete steps	15	1 Cefi	3.100	S.F.	52.67	61.32	2008 Qtr 2	3	3	\$ 183.95
Replace concrete steps	100	2 Cefi	31.000	S.F.	1,534.81	1,862.79	2008 Qtr 2	0	0	\$ -
Refinish metal stair railing interior	7	1 Pord	21.000	S.F.	28.77	35.70	2008 Qtr 2	7	7	\$ 249.90
Replace metal stair railing interior	45	2 Sswk	21.000	L.F.	753.27	870.24	2008 Qtr 2	1	1	\$ 870.24
Repair 8" concrete block wall - (2% of walls) painted	25	1 Bric	1.100	C.S.F.	1,112.33	1,335.42	2008 Qtr 2	2	1	\$ 1,335.42
Refinish concrete block wall painted	8	1 Pord	59.300	C.S.F.	5,762.18	7,005.11	2008 Qtr 2	6	6	\$ 42,030.65
Replace 8" concrete block wall painted	75	2 Bric	59.300	C.S.F.	63,914.13	76,864.07	2008 Qtr 2	0	0	\$ -
Refinish concrete floor finished	25	2 Cefi	56.700	C.S.F.	19,813.25	23,853.12	2008 Qtr 2	2	1	\$ 23,853.12
Acoustic tile repairs - (2% of ceilings)	9	1 Carp	0.200	C.S.F.	89.34	106.33	2008 Qtr 2	5	5	\$ 531.67
Replace acoustic tile ceiling, fire-rated	20	1 Carp	13.200	C.S.F.	5,321.58	6,322.80	2008 Qtr 2	2	2	\$ 12,645.60
Check / minor repairs drinking fountain	1	1 Plum	1.000	Ea.	37.58	47.34	2008 Qtr 2	50	50	\$ 2,367.00
Repair internal leaks drinking fountain	4	1 Plum	1.000	Ea.	35.14	43.43	2008 Qtr 2	12	12	\$ 521.16
Correct water pressure drinking fountain	2	1 Plum	1.000	Ea.	32.21	40.50	2008 Qtr 2	25	25	\$ 1,012.50
Replace refrigerant drinking fountain	2	1 Plum	1.000	Ea.	15.84	18.86	2008 Qtr 2	25	25	\$ 471.50
Repair drain leak drinking fountain	4	1 Plum	1.000	Ea.	22.63	27.03	2008 Qtr 2	12	12	\$ 324.36
Replace fountain drinking fountain	10	2 Plum	1.000	Ea.	1,005.84	1,193.57	2008 Qtr 2	5	5	\$ 5,967.85
Inspect and clean spray heads, emergency eye wash	3	1 Plum	1.000	Ea.	37.80	47.44	2008 Qtr 2	16	16	\$ 759.04
Replace eye wash station, emergency eye wash	25	2 Plum	1.000	Ea.	573.92	695.88	2008 Qtr 2	2	1	\$ 695.88
Replace washer in spud connection lavatory, vitreous china	7	1 Plum	4.000	Ea.	96.04	113.32	2008 Qtr 2	7	7	\$ 793.24

Replace washer in faucet lavatory, vitreous china	2	1 Plum	4.000	Ea.	39.40	49.16 2008 Qtr 2	25	25 \$	1,229.00
Replace faucets lavatory, vitreous china	10	1 Plum	4.000	Ea.	493.96	596.24 2008 Qtr 2	5	5 \$	2,981.20
Clean out strainer and P trap lavatory, vitreous china	2	1 Plum	4.000	Ea.	108.16	134.28 2008 Qtr 2	25	25 \$	3,357.00
Replace lavatory, vitreous china	35	2 Plum	4.000	Ea.	2,120.76	2,542.80 2008 Qtr 2	1	1 \$	2,542.80
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
Inspect / clean shower head fiberglass	3	1 Plum	1.000	Ea.	37.80	47.44 2008 Qtr 2	16	16 \$	759.04
Replace mixing valve barrel shower, fiberglass	2	1 Plum	1.000	Ea.	148.15	176.32 2008 Qtr 2	25	25 \$	4,408.00
Replace mixing valve shower, fiberglass	10	1 Plum	1.000	Ea.	274.68	329.00 2008 Qtr 2	5	5 \$	1,645.00
Replace shower and fittings, fiberglass	20	2 Plum	1.000	Ea.	976.65	1,151.58 2008 Qtr 2	2	2 \$	2,303.16
Replace flush valve diaphragm tankless water closet	10	1 Plum	4.000	Ea.	282.96	332.24 2008 Qtr 2	5	5 \$	1,661.20
Rebuild flush valve tankless water closet	20	1 Plum	4.000	Ea.	527.92	640.04 2008 Qtr 2	2	2 \$	1,280.08
Unplug clogged line tankless water closet	5	1 Plum	4.000	Ea.	673.04	840.72 2008 Qtr 2	10	10 \$	8,407.20
Replace tankless water closet	35	2 Plum	4.000	Ea.	2,192.00	2,593.44 2008 Qtr 2	1	1 \$	2,593.44
Replace tankless flush valve	25	1 Plum	4.000	Ea.	838.00	981.48 2008 Qtr 2	2	1 \$	981.48
Replace wax ring gasket tankless water closet	5	1 Plum	4.000	Ea.	438.28	548.80 2008 Qtr 2	10	10 \$	5,488.00
Replace flush valve diaphragm urinal	7	1 Plum	1.000	Ea.	70.74	83.06 2008 Qtr 2	7	7 \$	581.42
Rebuild flush valve urinal	20	1 Plum	1.000	Ea.	131.98	160.01 2008 Qtr 2	2	2 \$	320.02
Unplug line urinal	5	1 Plum	1.000	Ea.	112.14	139.91 2008 Qtr 2	10	10 \$	1,399.10
Replace wall-hung urinal	35	2 Plum	1.000	Ea.	841.63	1,006.57 2008 Qtr 2	1	1 \$	1,006.57
Replace pipe and fittings, copper 3/4"	20	2 Plum	32.000	L.F.	567.04	687.36 2008 Qtr 2	2	2 \$	1,374.72
Replace pipe and fittings, copper 2"	25	2 Plum	16.000	L.F.	652.96	785.76 2008 Qtr 2	2	1 \$	785.76
Repair damaged pipe insulation, fiberglass 3/4"	5	Q14	2.000	Ea.	31.44	38.36 2008 Qtr 2	10	10 \$	383.60
Repair damaged pipe insulation, fiberglass 2"	5	Q14	2.000	Ea.	36.92	45.06 2008 Qtr 2	10	10 \$	450.60
Replace pipe insulation, fiberglass 3/4"	5	Q14	0.010	M.L.F.	62.89	76.61 2008 Qtr 2	10	10 \$	766.13
Replace pipe insulation, fiberglass 2"	5	Q14	0.010	M.L.F.	74.26	90.69 2008 Qtr 2	10	10 \$	906.91
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
Unclog floor drain, PVC	20	1 Plum	1.000	Ea.	37.09	45.87 2008 Qtr 2	2	2 \$	91.74
Replace pipe, 4" pipe and fittings, PVC	30	2 Plum	200.000	L.F.	11,840.00	14,638.00 2008 Qtr 2	1	1 \$	14,638.00
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 pipe and fittings, oxygen	25	2 Plum	100.000	L.F.	1,763.00	2,139.00 2008 Qtr 2	2	1 \$	2,139.00
Repair single zone rt. unit, 5 ton	10	2 Stpi	2.000	Ea.	3,859.42	4,629.12 2008 Qtr 2	5	5 \$	23,145.60
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
Inspect sprinkler system	1	1 Plum	1.000	Ea.	26.55	32.89 2008 Qtr 2	50	50 \$	1,644.50
Replace sprinkler head	20	1 Plum	18.000	Ea.	1,146.24	1,412.28 2008 Qtr 2	2	2 \$	2,824.56
Replace fire alarm bell, 6"	20	1 Elec	2.000	Ea.	284.56	343.02 2008 Qtr 2	2	2 \$	686.04
Maintenance and inspection lighting panel, indoor	3	1 Elec	2.000	Ea.	57.00	71.26 2008 Qtr 2	16	16 \$	1,140.16
Maintenance and repair safety switch, 3 pole safety switch, heavy duty	8	1 Elec	1.000	Ea.	28.50	35.63 2008 Qtr 2	6	6 \$	213.78
Maintenance and inspection safety switch, 3 pole, heavy duty	1	1 Elec	1.000	Ea.	28.50	35.63 2008 Qtr 2	50	50 \$	1,781.50
Replace safety switch, heavy duty	25	2 Elec	1.000	Ea.	580.48	680.71 2008 Qtr 2	2	1 \$	680.71

Maintenance and repair motor starter, up to 600 V	5	1 Elec	1.000	Ea.	170.75	207.50 2008 Qtr 2	10	10	\$	2,075.00
Maintenance and inspection motor starter, up to 600 V	0.5	1 Elec	1.000	Ea.	38.17	47.85 2008 Qtr 2	100	100	\$	4,785.00
Replace starter motor starter, up to 600 V	18	1 Elec	1.000	Ea.	528.18	630.41 2008 Qtr 2	2	2	\$	1,260.82
Replace fluor. ballast for fluorescent lighting fixture, 80 W	10	1 Elec	94.000	Ea.	9,360.52	11,287.52 2008 Qtr 2	5	5	\$	56,437.60
Replace lamps (2 lamps) fluorescent lighting fixture, 80 W	10	1 Elec	94.000	Ea.	2,391.36	2,930.92 2008 Qtr 2	5	5	\$	14,654.60
Replace fixture fluorescent lighting fixture, 80 W	20	1 Elec	5.000	Ea.	890.40	1,075.55 2008 Qtr 2	2	2	\$	2,151.10
Replace M.H. ballast mercury halide fixture, 175 W	15	1 Elec	50.000	Ea.	9,550.00	11,194.50 2008 Qtr 2	3	3	\$	33,583.50
Replace lamp mercury halide fixture, 175 W	15	1 Elec	25.000	Ea.	1,849.75	2,186.75 2008 Qtr 2	3	3	\$	6,560.25
Replace mercury halide fixture, 175 W	20	1 Elec	0.000	Ea.	0.00	0.00 2008 Qtr 2	2	2	\$	-
Maintenance and repair receptacles and plugs	20	1 Elec	54.000	Ea.	1,678.86	2,091.42 2008 Qtr 2	2	2	\$	4,182.84
Replace receptacle/plug receptacles and plugs	20	1 Elec	54.000	Ea.	2,849.04	3,478.68 2008 Qtr 2	2	2	\$	6,957.36
Maintenance and repair wiring devices, switches	10	1 Elec	20.000	Ea.	621.80	774.60 2008 Qtr 2	5	5	\$	3,873.00
Replace switch wiring devices, switches	15	1 Elec	20.000	Ea.	1,024.20	1,247.00 2008 Qtr 2	3	3	\$	3,741.00
Check and repair manual pull station	10	1 Elec	3.000	Ea.	207.63	254.61 2008 Qtr 2	5	5	\$	1,273.05
Replace manual pull station	15	1 Elec	3.000	Ea.	377.22	455.67 2008 Qtr 2	3	3	\$	1,367.01
					\$278,772.71	\$333,779.82				
							MR Subtotal	\$	550,757.47	
							MR Per Year	\$	11,015.15	
							PM Per Year	\$	3,335.50	
							Subtotal	\$	14,350.65	
							Total Per Unit	\$	2.67	

CostWorks 2009 Quarter 1 - FAC 2153 Special Weapon Maintenance Shop

Qty	Description	Total In-House	Total Incl. O&P	Zip Code Prefix	Type	Release
1.000	Air compressor, gas engine powered, annualized	1,180.53	1,474.60	200	FMR	2008 Qtr 2
6.000	VAV Boxes, annualized	367.86	456.00	200	FMR	2008 Qtr 2
1.000	Crane, electric bridge, up to 5 ton, annualized	152.92	186.81	200	FMR	2008 Qtr 2
2.000	Door, overhead, manual, up to 24' high x 25' wide,	269.48	325.10	200	FMR	2008 Qtr 2
2.000	Door, emergency egress, swinging, annualized	99.02	115.02	200	FMR	2008 Qtr 2
12.000	Fire doors, swinging, annualized	298.68	358.32	200	FMR	2008 Qtr 2
1.000	Drink fountain, annualized	49.50	59.36	200	FMR	2008 Qtr 2
4.000	Lavatories, annualized	98.72	120.32	200	FMR	2008 Qtr 2
1.000	Showers, annualized	19.85	23.80	200	FMR	2008 Qtr 2
4.000	Toilet (vacuum breaker type), annualized	51.72	64.60	200	FMR	2008 Qtr 2
1.000	Urinals, annualized	12.93	16.15	200	FMR	2008 Qtr 2
2.000	Panelboard, 225 A and above, annualized	113.92	135.42	200	FMR	2008 Qtr 2
		\$2,715.13	\$3,335.50			

FAC 2153 Sustainment by Year - Terminal Cutoff Applied

