

FAC 7214 Annual Training Mobilization Barracks

RUC: \$190.79 SF

Source: USACE PAX Newsletter 3.2.2 dated 20 Mar 09
CC 72181
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: \$3.06 SF

Source: Cost Works model in \$FY-08, 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 7214-Annual Training/Mobilization Barracks
CostWorks 2008 Quarter 2

Design Life= 41
Average S.F= 5,407

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
Replace aluminum siding - 1st floor	35	1 Carp	28.520	C.S.F.	12,952.93	15,547.96	2008 Qtr 2	1	1	\$ 15,547.96
Refinish aluminum siding - 1st floor	20	1 Pord	28.520	C.S.F.	4,309.94	5,314.42	2008 Qtr 2	2	1	\$ 5,314.42
Replace aluminum siding - 2nd floor	35	1 Carp	28.520	C.S.F.	16,083.85	19,378.77	2008 Qtr 2	1	1	\$ 19,378.77
Refinish aluminum siding - 2nd floor	20	1 Pord	28.520	C.S.F.	6,704.20	8,224.31	2008 Qtr 2	2	1	\$ 8,224.31
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	1 Carp	64.000	Ea.	7,357.44	8,716.80	2008 Qtr 2	2	1	\$ 8,716.80
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	1 Carp	64.000	Ea.	28,070.40	32,831.36	2008 Qtr 2	0	0	\$ -
Repair 2'-0" x 3'-0" aluminum window - 2nd floor	20	1 Carp	64.000	Ea.	9,836.80	11,802.88	2008 Qtr 2	2	1	\$ 11,802.88
Replace 2'-0" x 3'-0" aluminum window - 2nd floor	50	1 Carp	64.000	Ea.	30,550.40	35,917.44	2008 Qtr 2	0	0	\$ -
Replace glass - 1st floor (1% of glass)	1	1 Carp	3.840	S.F.	34.75	40.78	2008 Qtr 2	41	41	\$ 1,672.01
Replace glass - 2nd floor (1% of glass)	1	1 Carp	3.840	S.F.	335.62	411.07	2008 Qtr 2	41	41	\$ 16,853.95
Repair aluminum storefront door	12	1 Carp	1.000	Ea.	413.94	490.68	2008 Qtr 2	3	3	\$ 1,472.04
Replace 3'-0" x 7'-0" aluminum storefront doors	50	1 Carp	1.000	Ea.	1,681.26	1,974.08	2008 Qtr 2	0	0	\$ -
Replace insulating glass - (3% of glass)	1	1 Carp	0.630	S.F.	22.98	26.92	2008 Qtr 2	41	41	\$ 1,103.72
Repair solid core, painted, door	12	1 Carp	4.000	Ea.	1,258.36	1,491.96	2008 Qtr 2	3	3	\$ 4,475.88
Prepare and refinish solid core, painted, door	4	1 Pord	4.000	Ea.	183.36	222.56	2008 Qtr 2	10	10	\$ 2,225.60
Replace 3'-0" x 7'-0" solid core, painted, door	40	1 Carp	4.000	Ea.	5,007.36	5,848.68	2008 Qtr 2	1	0	\$ -
Debris removal by hand & visual inspection shingles	1	2 Rofc	3.606	M.S.F.	64.01	77.17	2008 Qtr 2	41	41	\$ 3,163.90
Install new shingles over existing shingles	20	2 Rofc	36.060	Sq.	6,375.05	7,563.95	2008 Qtr 2	2	1	\$ 7,563.95
Removal and replacement of shingles shingles	40	2 Rofc	36.060	Sq.	9,126.79	10,918.25	2008 Qtr 2	1	0	\$ -
Minor asphalt shingle repair - (2% of roof area) shingles	1	2 Rofc	72.120	S.F.	249.54	298.58	2008 Qtr 2	41	41	\$ 12,241.65
Flashing repairs - (2 S.F. per sq. repaired) shingles	1	2 Rofc	1.440	S.F.	16.79	20.02	2008 Qtr 2	41	41	\$ 820.66
Repair solid core wood door interior	11	1 Carp	2.000	Ea.	335.50	396.28	2008 Qtr 2	3	3	\$ 1,188.84
Refinish 3'-0" x 7'-0" solid core wood door interior	4	1 Pord	2.000	Ea.	84.44	103.96	2008 Qtr 2	10	10	\$ 1,039.60
Replace 3'-0" x 7'-0" solid core wood door interior	40	1 Carp	2.000	Ea.	733.40	850.24	2008 Qtr 2	1	0	\$ -
Repair hollow core wood door interior	7	1 Carp	20.000	Ea.	3,355.00	3,962.80	2008 Qtr 2	5	5	\$ 19,814.00
Refinish 3'-0" x 7'-0" hollow core wood door interior	4	1 Pord	20.000	Ea.	844.40	1,039.60	2008 Qtr 2	10	10	\$ 10,396.00
Replace 3'-0" x 7'-0" hollow core wood door interior	30	1 Carp	20.000	Ea.	6,419.20	7,518.40	2008 Qtr 2	1	1	\$ 7,518.40
Repair concrete steps	15	1 Cefi	49.000	S.F.	832.51	969.22	2008 Qtr 2	2	2	\$ 1,938.44
Replace concrete steps	100	2 Cefi	49.000	S.F.	2,425.99	2,944.41	2008 Qtr 2	0	0	\$ -
Replace metal stair railing interior	45	2 Sswk	28.000	L.F.	1,004.36	1,160.32	2008 Qtr 2	0	0	\$ -
Refinish drywall	4	1 Pord	14,898.000	S.F.	8,938.80	11,024.52	2008 Qtr 2	10	10	\$ 110,245.20
Replace 5/8" drywall	75	2 Carp	14,898.000	S.F.	33,222.54	40,075.62	2008 Qtr 2	0	0	\$ -
Repair 5/8" drywall - (2% of walls)	20	1 Carp	298.000	S.F.	473.82	569.18	2008 Qtr 2	2	1	\$ 569.18
Refinish concrete floor finished	25	2 Cefi	25.210	C.S.F.	8,809.38	10,605.59	2008 Qtr 2	1	1	\$ 10,605.59
Replace vinyl floor	18	1 Tilf	296.550	S.Y.	14,160.26	17,288.87	2008 Qtr 2	2	2	\$ 34,577.73
Refinish sheetrock ceiling	20	1 Pord	54.070	C.S.F.	6,794.98	8,396.53	2008 Qtr 2	2	1	\$ 8,396.53

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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 sheetrock ceiling	40	2 Carp	54.070	C.S.F.	19,374.90	23,656.17	2008 Qtr 2	1	0	\$ -
Repair sheetrock ceiling - (2% of ceilings)	20	1 Carp	1.080	C.S.F.	377.19	460.37	2008 Qtr 2	2	1	\$ 460.37
Check / minor repairs drinking fountain	1	1 Plum	2.000	Ea.	75.16	94.68	2008 Qtr 2	41	41	\$ 3,881.88
Repair internal leaks drinking fountain	4	1 Plum	2.000	Ea.	70.28	86.86	2008 Qtr 2	10	10	\$ 868.60
Correct water pressure drinking fountain	2	1 Plum	2.000	Ea.	64.42	81.00	2008 Qtr 2	20	20	\$ 1,620.00
Replace refrigerant drinking fountain	2	1 Plum	2.000	Ea.	31.68	37.72	2008 Qtr 2	20	20	\$ 754.40
Repair drain leak drinking fountain	4	1 Plum	2.000	Ea.	45.26	54.06	2008 Qtr 2	10	10	\$ 540.60
Replace fountain drinking fountain	10	2 Plum	2.000	Ea.	2,011.68	2,387.14	2008 Qtr 2	4	3	\$ 7,161.42
Replace washer in spud connection lavatory, vitreous china	7	1 Plum	4.000	Ea.	96.04	113.32	2008 Qtr 2	5	5	\$ 566.60
Replace washer in faucet lavatory, vitreous china	2	1 Plum	4.000	Ea.	39.40	49.16	2008 Qtr 2	20	20	\$ 983.20
Replace faucets lavatory, vitreous china	10	1 Plum	4.000	Ea.	493.96	596.24	2008 Qtr 2	4	3	\$ 1,788.72
Clean out strainer and P trap lavatory, vitreous china	2	1 Plum	4.000	Ea.	108.16	134.28	2008 Qtr 2	20	20	\$ 2,685.60
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	20	20	\$ 243.80
Clean trap sink, iron enamel	3	1 Plum	1.000	Ea.	6.60	8.25	2008 Qtr 2	13	13	\$ 107.25
Replace faucets sink, iron enamel	10	1 Plum	1.000	Ea.	123.49	149.06	2008 Qtr 2	4	3	\$ 447.18
Unstop sink sink, iron enamel	2	1 Plum	1.000	Ea.	32.21	40.50	2008 Qtr 2	20	20	\$ 810.00
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	4.000	Ea.	282.96	332.24	2008 Qtr 2	4	3	\$ 996.72
Rebuild flush valve tankless water closet	20	1 Plum	4.000	Ea.	527.92	640.04	2008 Qtr 2	2	1	\$ 640.04
Unplug clogged line tankless water closet	5	1 Plum	4.000	Ea.	673.04	840.72	2008 Qtr 2	8	8	\$ 6,725.76
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	1	1	\$ 981.48
Replace wax ring gasket tankless water closet	5	1 Plum	4.000	Ea.	438.28	548.80	2008 Qtr 2	8	8	\$ 4,390.40
Replace flush valve diaphragm urinal	7	1 Plum	4.000	Ea.	282.96	332.24	2008 Qtr 2	5	5	\$ 1,661.20
Rebuild flush valve urinal	20	1 Plum	4.000	Ea.	527.92	640.04	2008 Qtr 2	2	1	\$ 640.04
Unplug line urinal	5	1 Plum	4.000	Ea.	448.56	559.64	2008 Qtr 2	8	8	\$ 4,477.12
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	82	82	\$ 633.04
Replace pump / motor assembly circulation pump, 1/12 HP	10	2 Plum	1.000	Ea.	736.33	863.29	2008 Qtr 2	4	3	\$ 2,589.87
Resolder joint pipe & fittings, copper	10	1 Plum	2.000	Ea.	65.70	80.90	2008 Qtr 2	4	3	\$ 242.70
Replace pipe and fittings, copper 3/4"	20	2 Plum	16.000	L.F.	283.52	343.68	2008 Qtr 2	2	1	\$ 343.68
Replace pipe and fittings, copper 2"	25	2 Plum	16.000	L.F.	652.96	785.76	2008 Qtr 2	1	1	\$ 785.76
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	2	2	\$ 273.28
Remove old insulation & replace with new, pipe 1-1/2", wall 3/4"	15	1 Plum	16.000	L.F.	160.32	195.04	2008 Qtr 2	2	2	\$ 390.08
Overhaul water heater, gas / oil, 70 gallon	5	1 Plum	1.000	Ea.	126.58	158.02	2008 Qtr 2	8	8	\$ 1,264.16

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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
Clean & service water heater, gas / oil, 70 gallon	1	1 Plum	1.000	Ea.	151.28	188.37	2008 Qtr 2	41	41	\$ 7,723.17
Replace water heater, gas / oil, 70 gallon	12	2 Plum	1.000	Ea.	2,468.08	2,857.11	2008 Qtr 2	3	3	\$ 8,571.33
Remove 500 gal. underground storage tank(non-leaking)	20	B34P	1.000	Ea.	2,082.03	2,480.80	2008 Qtr 2	2	1	\$ 2,480.80
Unclog main drain pipe & fittings, cast iron	10	1 Plum	1.000	Ea.	35.62	44.41	2008 Qtr 2	4	3	\$ 133.23
Replace pipe & fittings, cast iron	40	2 Plum	16.000	L.F.	670.40	811.20	2008 Qtr 2	1	0	\$ -
Unclog floor drain, PVC	20	1 Plum	1.000	Ea.	37.09	45.87	2008 Qtr 2	2	1	\$ 45.87
Repair joint pipe and fittings, PVC	10	1 Plum	1.000	Ea.	115.94	144.14	2008 Qtr 2	4	3	\$ 432.42
Replace pipe, 4" pipe and fittings, PVC	30	2 Plum	16.000	L.F.	947.20	1,171.04	2008 Qtr 2	1	1	\$ 1,171.04
Install new 4" gasket, 1 per M.L.F. natural gas, steel/iron	30	1 Stpi	1.000	Ea.	157.52	195.63	2008 Qtr 2	1	1	\$ 195.63
Replace 10' of buried 4" diam steel pipe/M.L.F. natural gas	12	B35	1.000	Ea.	796.82	957.19	2008 Qtr 2	3	3	\$ 2,871.57
Repair air conditioner, DX, 5 ton	10	1 Stpi	1.000	Ea.	3,340.61	3,975.84	2008 Qtr 2	4	3	\$ 11,927.52
Replace air conditioner, DX, 5 ton	20	Q6	1.000	Ea.	6,223.76	7,300.04	2008 Qtr 2	2	1	\$ 7,300.04
Minor repairs to fire alarm control panel	5	1 Elec	1.000	Ea.	107.84	130.97	2008 Qtr 2	8	8	\$ 1,047.76
Maintenance and inspection fire alarm control panel	0.5	1 Elec	1.000	Ea.	30.54	38.17	2008 Qtr 2	82	82	\$ 3,129.94
Replace fire alarm control panel	15	1 Elec	1.000	Ea.	2,615.62	3,107.84	2008 Qtr 2	2	2	\$ 6,215.68
Replace sprinkler head	20	1 Plum	42.000	Ea.	2,674.56	3,295.32	2008 Qtr 2	2	1	\$ 3,295.32
Inspect sprinkler system	1	1 Plum	1.000	Ea.	26.55	32.89	2008 Qtr 2	41	41	\$ 1,348.49
Rebuild double check 3" backflow preventer sprinkler system	1	1 Plum	1.000	Ea.	598.06	715.83	2008 Qtr 2	41	41	\$ 29,349.03
Replace fluor. ballast for fluorescent lighting fixture, 80 W	10	1 Elec	46.000	Ea.	4,580.68	5,523.68	2008 Qtr 2	4	3	\$ 16,571.04
Replace lamps (2 lamps) fluorescent lighting fixture, 80 W	10	1 Elec	46.000	Ea.	1,170.24	1,434.28	2008 Qtr 2	4	3	\$ 4,302.84
Maintenance and repair receptacles and plugs	20	1 Elec	50.000	Ea.	1,554.50	1,936.50	2008 Qtr 2	2	1	\$ 1,936.50
Replace receptacle/plug receptacles and plugs	20	1 Elec	50.000	Ea.	2,638.00	3,221.00	2008 Qtr 2	2	1	\$ 3,221.00
Maintenance and repair wiring devices, switches	10	1 Elec	31.000	Ea.	963.79	1,200.63	2008 Qtr 2	4	3	\$ 3,601.89
Replace switch wiring devices, switches	15	1 Elec	31.000	Ea.	1,587.51	1,932.85	2008 Qtr 2	2	2	\$ 3,865.70
Check and repair manual pull station	10	1 Elec	3.000	Ea.	207.63	254.61	2008 Qtr 2	4	3	\$ 763.83
Replace manual pull station	15	1 Elec	3.000	Ea.	377.22	455.67	2008 Qtr 2	2	2	\$ 911.34
Repair smoke detector	10	1 Elec	4.000	Ea.	152.76	188.00	2008 Qtr 2	4	3	\$ 564.00
Check operation smoke detector	1	1 Elec	4.000	Ea.	45.60	57.20	2008 Qtr 2	41	41	\$ 2,345.20
Replace smoke detector	15	1 Elec	4.000	Ea.	758.20	907.96	2008 Qtr 2	2	2	\$ 1,815.92
Maintenance and repair breaker, 1 pole circuit breaker	20	1 Elec	3.000	Ea.	152.70	190.89	2008 Qtr 2	2	1	\$ 190.89
Maintenance and inspection C.B., 1 pole circuit breaker	0.5	1 Elec	3.000	Ea.	68.73	85.50	2008 Qtr 2	82	82	\$ 7,011.00
Minor repairs, adjustments water heater, gas / oil, 1150 GPH	2	2 Plum	1.000	Ea.	75.64	94.18	2008 Qtr 2	20	20	\$ 1,883.60
Clean & service water heater, gas / oil, 1150 GPH	2	2 Plum	1.000	Ea.	453.84	566.08	2008 Qtr 2	20	20	\$ 11,321.60
Replace water heater, gas / oil, 1150 GPH	20	2 Plum	1.000	Ea.	26,100.80	30,172.40	2008 Qtr 2	2	1	\$ 30,172.40
					\$330,393.32	\$394,965.72				
									MR Subtotal	\$ 564,360.76

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MR Per Year	\$	13,764.90
PM Per Year	\$	3,304.42
Subtotal	\$	17,069.32
Total Per Unit	\$	3.16

CostWorks 2009 Quarter 1 - FAC 7214-Annual Training/Mobilization Barracks

Qty	Assembly Number	Description	Total In-House	Total Incl. O&P	Zip Code	Prefix	Type	Release
7.000	B2035 225 1950	Door, emergency egress, swinging, annualized	346.57	402.57	200		FMR	2008 Qtr 2
20.000	C1025 110 1950	Fire doors, swinging, annualized	497.80	597.20	200		FMR	2008 Qtr 2
4.000	D2015 100 1950	Urinals, annualized	51.72	64.60	200		FMR	2008 Qtr 2
4.000	D2015 100 2950	Toilet (vacuum breaker type), annualized	51.72	64.60	200		FMR	2008 Qtr 2
4.000	D2015 100 4950	Lavatories, annualized	98.72	120.32	200		FMR	2008 Qtr 2
2.000	D2015 800 1950	Drink fountain, annualized	99.00	118.72	200		FMR	2008 Qtr 2
1.000	D2025 260 1950	Water heater, gas, to 120 gal., annualized	156.50	189.02	200		FMR	2008 Qtr 2
6.000	D3045 160 1950	VAV Boxes, annualized	367.86	456.00	200		FMR	2008 Qtr 2
1.000	D3055 210 1950	Package unit, air cooled, 3 thru 24 ton, annualized	207.71	251.03	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	D4015 100 1950	Backflow prevention device, up to 4", annualized	18.89	23.42	200		FMR	2008 Qtr 2
			\$2,730.26	\$3,304.42				

FAC 7214 Sustainment by Year - Terminal Cutoff Applied

