

FAC 2137 FIXED CRANE STRUCTURE

FY22 SUC: \$122,743.90 / EA
Source: Inflated from previous FY using ENR labor and material cost indices to measure actual inflation.
Original Source: NAVFAC Public Works Departments data, 2021

FAC 2137 Fixed Crane Structure
FY21 SUC Remodel

SUC \$112,526.49
ESL 75
UM EA

Maintenance and Repair (MR)

Component NBR	Description	Unit	Total In-House	Total Incl. OP	Frequency	Occurrences	Life Cost	Adjusted Cost < 10 Tons	Adjusted Cost > 10 Tons < 50 Tons	Adjusted Cost > 50 Tons
FCS1	Hoist Replacement < 10 Tons	EA	\$15,000.00	\$21,000.00	10	7	\$147,000.00	\$147,000.00		
FCS2	Hoist Replacement > 10 Tons < 50 Tons	EA	\$60,000.00	\$84,000.00	15	5	\$420,000.00		\$420,000.00	
FCS3	Wire Rope Replacement > 50 Tons	EA	\$500,000.00	\$700,000.00	15	5	\$3,500,000.00			\$3,500,000.00
FCS4	Control Drive Replacement Main Hoist > 50 Tons	EA	\$250,000.00	\$350,000.00	15	5	\$1,750,000.00			\$1,750,000.00
FCS5	Control Drive Replacement Auxiliary Hoist > 50 Tons	EA	\$250,000.00	\$350,000.00	15	5	\$1,750,000.00			\$1,750,000.00
FCS6	Control Drive Replacement Luff Hoist > 50 Tons	EA	\$250,000.00	\$350,000.00	15	5	\$1,750,000.00			\$1,750,000.00
FCS7	Control Drive Replacement Swing > 50 Tons	EA	\$250,000.00	\$350,000.00	15	5	\$1,750,000.00			\$1,750,000.00
FCS8	Structural Repair and Full Repaint	EA	\$1,500,000.00	\$2,100,000.00	25	3	\$6,300,000.00			\$6,300,000.00
							MR Subtotal	\$147,000.00	\$420,000.00	\$16,800,000.00
							MR Per Year	\$1,960.00	\$5,600.00	\$224,000.00
							PM Total	\$6,978.83	\$11,832.41	\$120,056.55
							Subtotal	\$8,938.83	\$17,432.41	\$344,056.55
							Total Per Unit	\$8,938.83	\$17,432.41	\$344,056.55
							% Navy Inventory	68.75%	0.00%	31.25%
									Weighted Cost / EA	\$113,663.12
									SUC (Adjusted for ACF and Inflation)	\$112,526.49

Preventive Maintenance (PM) \$88 per hour labor

	Description	Annual Quantity	Labor Hours	Bare Materials	Bare Labor	Bare Equipment	Bare Total	Total In-House	Total Incl. OP
Sum Annual Category 3 Costs < 10 Tons		1		\$525.00	\$4,752.00	\$0.00	\$5,277.00	\$6,068.55	\$6,978.83
Sum Annual Category 2 Costs > 10 Tons < 50 Tons		1		\$675.00	\$8,272.00	\$0.00	\$8,947.00	\$10,289.05	\$11,832.41
Annual Inspection and cert < 10 Tons		1	40.00	\$150.00	\$3,520.00	\$0.00	\$3,670.00	\$4,220.50	\$4,853.58
Annual Inspection and cert > 10 Tons < 50 Tons		1	80.00	\$300.00	\$7,040.00	\$0.00	\$7,340.00	\$8,441.00	\$9,707.15
Cat 2, 3 Load Test		0.25	56.00	\$1,500.00	\$4,928.00	\$0.00	\$6,428.00	\$7,392.20	\$8,501.03
Sum Annual Inspections > 50 Tons				\$6,300.00	\$84,480.00	\$0.00	\$90,780.00	\$104,397.00	\$120,056.55
"A" PM (4 month) > 50 Tons		2	150.00	\$150.00	\$13,200.00	\$0.00	\$13,350.00	\$15,352.50	\$17,655.38
"B" PM (3rd "A" PM), load test, cert > 50 Tons		1	300.00	\$1,500.00	\$26,400.00	\$0.00	\$27,900.00	\$32,085.50	\$36,897.75
"C" PM (3rd "B" PM) > 50 Tons		0.3	1,200.00	\$15,000.00	\$105,600.00	\$0.00	\$120,600.00	\$138,690.00	\$159,493.50