

## **FAC 2137 Fixed Crane Structure**

FY25 SUC: \$102,179.14 / EA

Source: FY25 study with data provided by NAVFAC's Public Works Departments with analysis by NAVFAC in coordination with R&K Solutions.

FAC 2137 Fixed Crane Structure  
FY25 SUC Remodel  
SUC \$102,179.14  
ESL 45  
UM EA

Maintenance and Repair (MR)

Component NBR	Description	Unit	Total In-House	Total Incl. OP	Freq	Occurrences	Life Cost	Adjusted Cost < 10 Tons	Adjusted Cost > 10 Tons < 50 Tons	Adjusted Cost > 50 Tons
FCS1	Hoist Replacement (Based on > 50 Tons Capacity)	EA	\$500,000.00	\$700,000.00	15	3	\$2,100,000.00	\$200,000.00	\$420,000.00	\$2,100,000.00
FCS3	Wire Rope Replacement (Based on > 50 Tons Capacity)	EA	\$50,000.00	\$70,000.00	8	6	\$392,000.00	\$12,000.00	\$200,000.00	\$392,000.00
FCS4	Control Drive Replacement (Based on > 50 Tons Capacity)	EA	\$250,000.00	\$350,000.00	15	3	\$1,050,000.00	\$0.00	\$0.00	\$1,050,000.00
FCS8	Structural Repair and Full Repaint (Based on HammerHead Crane type > 50 Tons )	EA	\$1,500,000.00	\$2,100,000.00	15	3	\$6,300,000.00	\$5,000.00	\$0.00	\$6,300,000.00
							MR Subtotal	\$217,000.00	\$620,000.00	\$9,842,000.00
							MR Per Year	\$4,822.22	\$13,777.78	\$218,711.11
							PM Total	\$6,623.08	\$95,180.33	\$95,180.33
							Subtotal	\$11,445.30	\$108,958.10	\$313,891.44
							Total Per Unit	\$11,445.30	\$108,958.10	\$313,891.44
							% Navy	70.00%	0.00%	30.00%
							Weighted Cost /		\$102,179.14	

Preventive Maintenance (PM) \$88 per hour labor

	Description	Annual Quantit	Labor Hours	Bare Materials	Bare Labor	Bare Equipment	Bare Total	Total In-House	Total Incl. OP
Sum Annual P-307 Category 3 ( < 10 ton) and Category 2 (> 10 Ton) Costs									
	Annual Inspection and Certification	1	40.00	\$500.00	\$3,520.00	\$500.00	\$4,520.00	\$5,198.00	\$5,977.70
	Quadrennial Load Test	0.25	1.00	\$200.00	\$88.00	\$200.00	\$488.00	\$561.20	\$645.38
Sum Annual P-307 Category 1 Cranes		5.3	440	\$26,000.00	\$38,720.00	\$7,250.00	\$71,970.00	\$82,765.50	\$95,180.33
	"A" PM (4 month)	3	40.00	\$5,000.00	\$3,520.00	\$3,000.00	\$11,520.00	\$13,248.00	\$15,235.20
	"B" PM (3rd "A" PM)	1	160.00	\$8,000.00	\$14,080.00	\$1,000.00	\$23,080.00	\$26,542.00	\$30,523.30
	"C" PM (3rd "B" PM)	0.3	200.00	\$3,000.00	\$17,600.00	\$250.00	\$20,850.00	\$23,977.50	\$27,574.13
	Annual Load Test & Certification	1	40.00	\$10,000.00	\$3,520.00	\$3,000.00	\$16,520.00	\$18,998.00	\$21,847.70