

FAC 2131 Graving Dry-dock

FY25 SUC: \$42.23 / SF

Source: FY25 Navy Study

Dry Dock

Average Dry Dock

Width	ft	131
Lenth	ft	816
Depth	ft	40
Volume	cu ft	4,930,153
Area	sq ft	108,241
Construction Material		Concrete
Capstans	ea	9.1
Drainage Pumps	ea	2.4
Dewatering Pumps	ea	2.9
Average PRV EOY FY23	ea	\$433,031,876
Total PRV EOY FY23	ea	\$7,794,573,776
Expected Service Life	yr	150

Component (In order by cost)	Annual Cost (\$000)	Pct
Caisson	192,888	39.60%
Dewatering Pumps	65,601	13.47%
Peripheral Components/Miscellaneous	97,409	20.00%
Concrete DD Walls, Floors, Tunnels, Pump	44,003	9.03%
Sluice Gates and Operators	18,269	3.75%
Drainage Pumps	34,097	7.00%
Concrete Walls (clean & seal)	11,837	2.43%
Capstans	7,884	1.62%
DD process water system	9,341	1.92%
Hydrostatic relief system - periodic repairs	4,632	0.95%
Sump Pumps	825	0.17%
Seawater Pumps	301	0.06%

150 Year Cost Summary

Task Type	150 Year Total Cost	Annual Cost per GSFT (FY24)	Annual Cost as % of Replacement
PM & Minor Repair	\$181,728,043	\$11.19	0.02%
Unscheduled Maintenance	\$0	\$0.00	0.00%
Renewal & Replacement	\$487,088,859	\$30.00	0.04%
Total in FY24 dollars	\$668,816,902	\$41.19	
Total in FY25 dollars	ENR Inflat: 1.0251	\$42.23	

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108,241

Component Relationship To Annual Costs

