

2.3.2 FRC REQUIREMENTS SUMMARY

Table 2.1 FRC Waterfront & Shore Support Facility Infrastructure Requirements		
COMPONENT	THRESHOLD	OBJECTIVE
<i>Waterfront Infrastructure</i>		
Water Depth	14 Feet	17 Feet
Mooring Length	175 Feet	190 Feet
Number of Dock Spaces + dockside	5	7
Mooring Devices/Deck Fittings	Min. 3 cleats & bollards per cutter	Min. 4 cleats & bollards per cutter
Fendering	Soft, Non-marking	
Vertical Load	1.5 X Paxman Engine	
Horizontal Load	5 Knots impact perpendicular to pier	
Electrical	400 A	
Potable Water	875 gal/day, One 2-1/2" @ 600 gpm/60 psi	
Sewage	Min capacity 875 gal/day via 4" @ 350 gpm	
Bilge Water	Min capacity 200 gal/day	
Telephone	10 telephone line pairs	
Cable TV	One commercial service line	
Local Area Network (LAN)	3 pair Cat 5 fiber optic connectors	
Fire Protection	Cooperation w/ local fire dept.	2 - 2-1/2" shore connections w/ 500 gpm @ 125 psi
Refuse Removal	Applicable local procedures	
Compressed Air	None	Available on pier
Oily water disposal	Via truck	
High Purity Water	Via truck	
Lighting	Adequate Security Lighting	
Parking	114 spaces (80% of crew + 1 Gov't. vehicle per cutter)	138 spaces (100% of crew + 1 Gov't. vehicle per cutter)
<i>Shore Support Facility Infrastructure</i>		
Cutter Offices (3 - 8 workstations, 2 file cabinets, per cutter for 6 homeported and 1 visiting)	700 NSF	2, 100 NSF
Cutter Storage (6 cutters)	1,350 NSF	1,800 NSF
Cutter Shops (6 cutters)	0	600 NSF
All-hands meeting space (all 6 cutters)	500 NSF	600 NSF
Conference Room (6 cutters)	200 NSF	
MAT/NESU/Industrial - Office (~)	1,500 NSF	
MAT/NESU/Industrial - Storage (~)	2,000 NSF	
MAT/NESU/Industrial - Shops (~)	7,500 NSF	
Parts/Tool Storage (6 cutters)	2,400 NSF	
Flammable Storage (6 cutters)	150 NSF	
HAZMAT Storage (6 cutters)	240 NSF	

Points of shore tie connections on the FRC are located on the vessel at approximately the following locations:

Sewage: 16.5 feet aft of the stem; port.

Electrical: 115 feet aft of the stem; port and starboard.

Communications: 115 feet aft of the stem; port and starboard.

Water: 122 feet aft of the stem.