

Top-Level Requirements for Inland Buoy Tender (WLI)

Criterion	Requirements
Length (maximum)	Threshold: 120 feet Objective: 100 feet
Deck Cargo Capacity	30,600 pounds total 6x20 LR Buoy (x3), 6,500 lb sinkers (x4), 3,600 lb mooring chain
Working Deck Area	Threshold: 500 ft ² Objective: 600 ft ²
Crane (hydraulic) - WLL	10,000 lbs at 40-ft R and 23,000 lbs at 23-ft R
Type	Monohull
ABS Ruleset Overall	Building and Classing Steel Vessels for Service on Rivers and Intracoastal Waterways
ABS Ruleset for Structures	Building and Classing Steel Vessels Under 90 meters (295 feet) in Length
Speed @ 85% MCR	Threshold: 11 knots Objective: 13 knots
Accommodations	Threshold: 14 Objective: 16
Patrol Endurance (days underway)	Threshold: 7 days Objective: 10 days
Maximum Heights of Structure or Equipment	Fixed air draft not to exceed 35 feet Foldable mast erected height not to exceed 45 feet
Draft (maximum) at EOSL	Threshold: 5.5 feet at Full Load in freshwater Objective: 5.0 feet at Full Load in freshwater
Beam	Maximum beam not to exceed 35 feet, inclusive of appendages
Propulsion System	
Propulsor Type	Azimuth Drive
Drive Type	Mechanical Drive
Number of Propulsors	2 or 3
Ship Service Generators	3 or 4 (N+1 configuration)
Seakeeping	
Survivable Sea State	Mid-Sea State 4 (6 feet Significant)

Definitions:

Threshold – An absolute minimum (or maximum) required to successfully perform the mission; the value necessary for an asset to be considered acceptable. A proposal that fails to meet a threshold is ineligible for award.

Objective - A level of performance beyond the threshold that significantly improves mission performance, safety, supportability, or cost; a value that reflects an operationally meaningful increment.

Abbreviations:

ABS – American Bureau of Shipping

EOSL– End of Service Life

MCR – Maximum Continuous Rating

R - Radius

WLL – Working Load Limit