

API Specification

2C

6th Edition, March 2004
Specification for Offshore Pedestal
Mounted Cranes

Appendix C

Minimum Purchaser-Defined Requirements API Spec 2C

Installation Description:

Type of Installation: _____ (Fixed Platform, TLP, Spar, Semi, Drillship)

Installation Main Deck Elevation above Sea Level: _____ ft

Crane Boom Heel Pin Elevation above Main Deck: _____ ft

Minimum Design Service Temperature: _____ °F

Maximum Design Service Temperature: _____ °F

Features

Boom Length: _____ ft

Primer Mover: _____

Area Classification: (See Section 10.4)

At Crane: Class _____ Division _____ Group(s) _____

Boom: Class _____ Division _____ Group(s) _____

Power Unit: Class _____ Division _____ Group(s) _____

Out-of-service Maximum Conditions

Boom Not Stowed:

Max Wind _____ mph

For Floating Crane Vessel/Platforms:

Max Significant Sea (H_{sig}) _____ ft

Max Crane Accelerations:

_____ Per Tables 3 – 5 for specified H_{sig}

_____ g's horiz. and _____ g's vert.

Boom Stowed:

Max Wind _____ mph

Max Significant Sea (H_{sig}) _____ ft

Max Crane Accelerations:

_____ Per Tables 3 – 5 for specified H_{sig}

_____ g's horiz. and _____ g's vert.

Performance Requirements

Ratings to be determined by which method (check one):

Vessel Specific Method (Floating Crane Vessels only)

General Method (Floating or Fixed Crane Installations)

Default Dynamic Method (Fixed Platforms only—calm seas, tethered supply boat)

Minimum Purchaser Defined Criteria for Fixed or Floating Installation

Purchaser Defined Lift Criteria	Onboard Lifts (Calm Seas)	Onboard Lifts 2nd Criteria	Offboard Lifts 1st Criteria	Offboard Lifts 2nd Criteria
Main Block Required SWL—Ib.				
Main Block SWL Radius—ft				
Auxiliary Required SWL—Ib.				
Auxiliary Hook SWL Radius—ft				

Additional Criteria for Fixed/Bottom Supported or Floating/Vessel Installations

Purchaser Defined Lift Criteria	Onboard Lifts (Calm Seas)	Onboard Lifts 2nd Criteria	Offboard Lifts 1st Criteria	Offboard Lifts 2nd Criteria
Main Block Speed @ Supply Boat Deck—ft/sec.	n/a			
Auxiliary Hook Speed @ Supply Boat Deck—ft/sec.	n/a			
Significant Wave Height (H_{sig})—ft	n/a			
Wind Speed—mph				

Additional Purchaser Defined Criteria—Floating/Vessel Installation Cranes Only (TLP/Spar/Semisubmersible/Drillship/Etc.)

Purchaser Defined Lift Criteria	Onboard Lifts (Calm Seas)	Onboard Lifts 2nd Criteria	Offboard Lifts 1st Criteria	Offboard Lifts 2nd Criteria
Crane Base Static Inclination, (Installation List Angle)—degrees				
Crane Base Static Inclination, (Installation Trim Angle)—degrees				
Boom Tip Velocity—ft/sec.	n/a			
Horizontal Acceleration—g's	n/a			

1g = 32.2 ft/sec.²