

### Operation Criteria on Inbound and Outbound Passenger Ships

Subject	Operational criteria and conditions	
	Wakamatsu Wharf	Minatocho Wharf
Berthing vessels	90,000 gross tonnage (GT) class <sup>1</sup> After provision of official service, up to 110,000 GT	160,000 GT class
Draft	8.1 meters or less <sup>2</sup> After provision of official service, up to 9.0 meters or less	12.7 meters or less at Wharf A 10.9 meters or less at Wharf B
Velocity of a vessel approaching the berth, to or from vertical direction	11 centimeters/s or less	8 centimeters/s or less
Broadside alongside the berth	An incoming ship, starboard side alongside the berth, as a rule	Either starboard side or port side alongside the berth is available.
Critical mooring wind velocity	Average wind velocity is 11m/s or less	Average wind velocity is 14m/s or less
Wind velocity	Average velocity is 10m/s or less.	
Wave height	Wave height outside the port is 1.0 meters or less.	
Visibility	1,000 meters or more	
Arrival time and departure time	An inbound ship should enter the port from sunrise to before sunset. Departure from the port at night is available.	
Tugboat arrangement	A tugboat should be arranged, if necessary. <sup>3</sup>	
Pilotage arrangement	Inbound and outbound ships should arrange a pilot on board who is familiar with the marine traffic and sea area environment of Hakodate Port.	
Leaving mooring facility in case of emergency	In the case when critical mooring wind velocity is anticipated to exceed the benchmark, a ship mooring at the berthing facility should immediately leave the facility, under inward and outward bound operations criteria.	
Under-keel clearance	A large-sized passenger cruise ship should secure under-keel clearance of 10 percent or more of its draft of water depth on the navigable waters in the port.	

<sup>1</sup> As Wakamatsu Wharf comes into service provisionally, the maximum size ship available to moor at the Wharf is up to 90,000 GT class and draft is 8.1 meters or less.

<sup>2</sup> Same as above

<sup>3</sup> Additionally, a lookout boat or a marking boat should be arranged, if necessary.