Establishment of All-Weather Berth Network*



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Seiji Ueda Kawatetsu Transportation & Technology Co., Ltd.



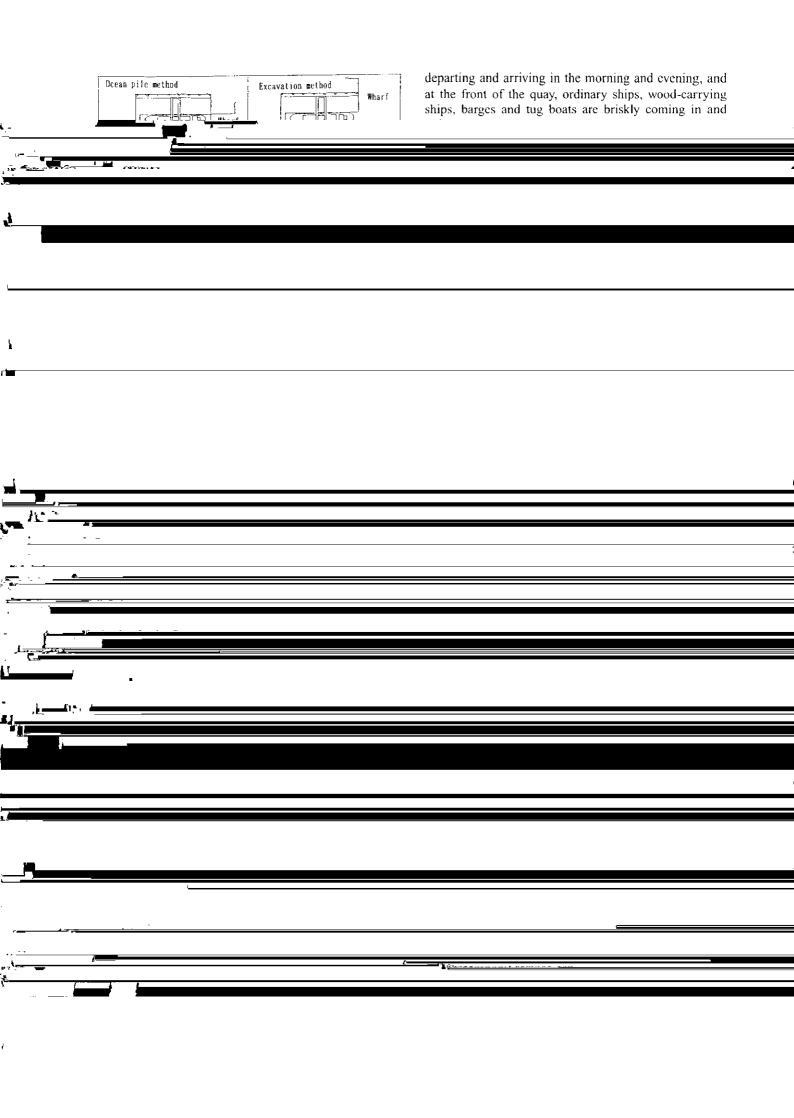
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Synopsis:

Kawasaki Steel estblished an integrated network comprising a total of six all-weather berths for loading and unloading at its Mizushima Works, Chiba Works, Chita Works and Osaka Service Center to improve transportation efficiency by the domestic vessels on which the company depends for approximately 70% of its steel product transportation. The Osaka Service Center, because it is located on a public wharf, has adopted the retractable vessel housing method for the first time in Japan. With a fixed shed eqipped with both a ceiling crane and a movable shed which moves on an overhanging guard, the facility can be used in the shut down condition, and is possible to operate in both good and inclement weather. In addition, a multipurpose semi-automatic crane was adopted to improve loading and unloading efficiency.

1 Introduction	
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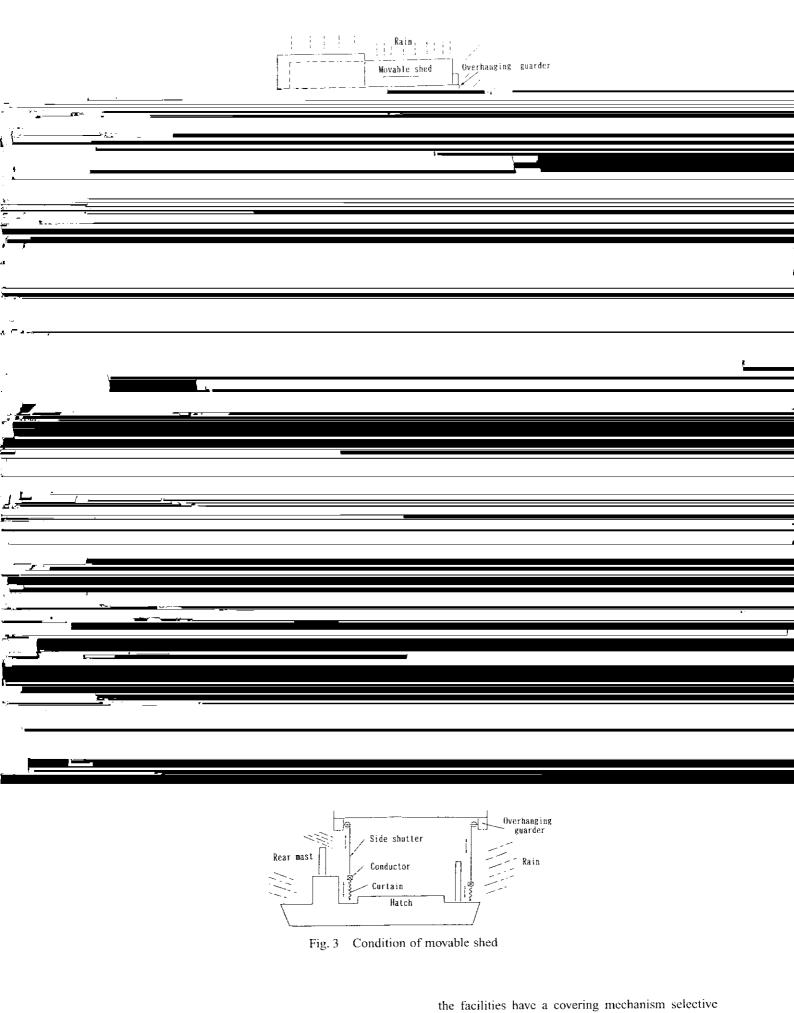
portation improvement by achieving labor saving,



z=	time of completing the cargo hand	lling.	The present fa	cilities are of the retractable vessel
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mechanism is of the sheet winding drum type. The side shutter is lowered directly below the overhanging girder to prevent the rain from blowing in by way of the front cargo-handling." 3.3.1 Fixed shed

taining the fived running girder made of a reaf and walls _____tem and of the cide chutter a dran ourtain device



(m)

Table 3 Distance affected by rain

Max. instantaneous

according to the structure of the ship, its vertical

fluctuations and the blowing directions of the rain

	4.1 Outline of Crane Operation	ever, since automatic loading is difficult owing to the oscillation of the ship, manual operation is car-
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	automation are shown in Fig. 4 and Table 5. The semi-	At Fig. 4 (b) ①, select the plate to be cargo-handled
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