Abridged version

KAWASAKI STEEL TECHNICAL REPORT

No.10 (December 1984)

Application of Large Diameter UOE Steel Pipe Pile to Offshore Structure

Masanari Tominaga, Masao Nagano, Hiroaki Furuya, Tamotsu Kimura

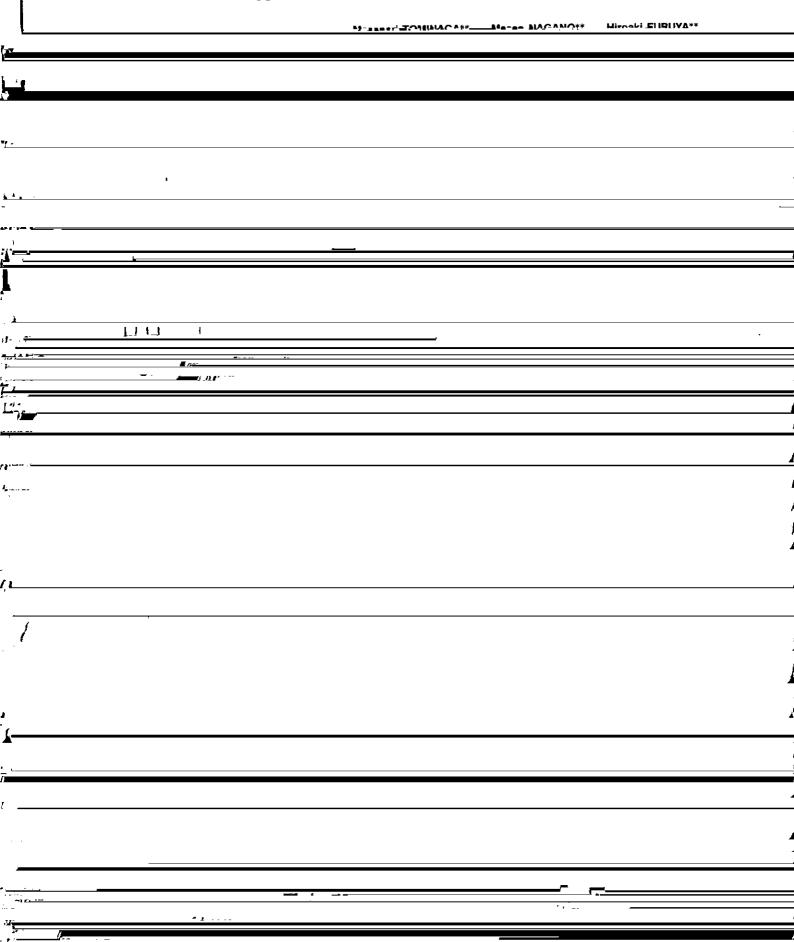
Synopsis:

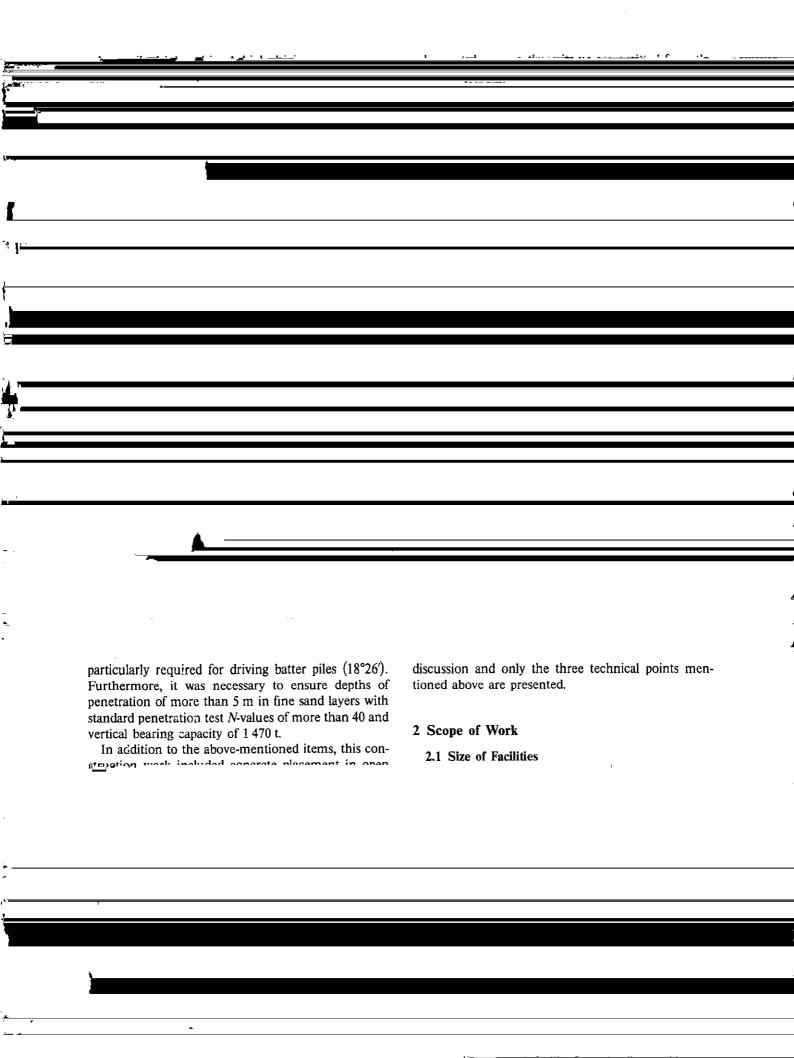
Taiwan Power Company is constructing a steam power plant of 4 million kW at the coastal area situated 30 km north of Kaohsiung which is the biggest industrial area in Taiwan, R.O.C. The installation of two generators with a capacity of 500 000 kW each was completed and now they are operating. Engineering division of Kawasaki Steel Corporation, through an international tender, was awarded a contract to construct an offshore berth facility for unloading coal required for the plant operation. This facility consists of a 910 m long approach trestle and a platform foundation for the coal unloader. Large diameter and thick wall UOE steel pipe piles were applied to the foundation work. This paper describes the civil engineering aspects of the steel pipe pile foundation used in this construction project.

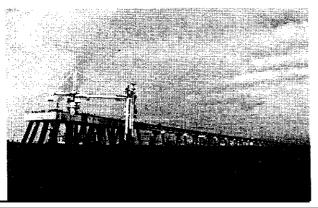
(c)JFE Steel Corporation, 2003

The body can be viewed from the next page.

Application of Large Diameter UOE Steel Pipe Pile to Offshore Structure*

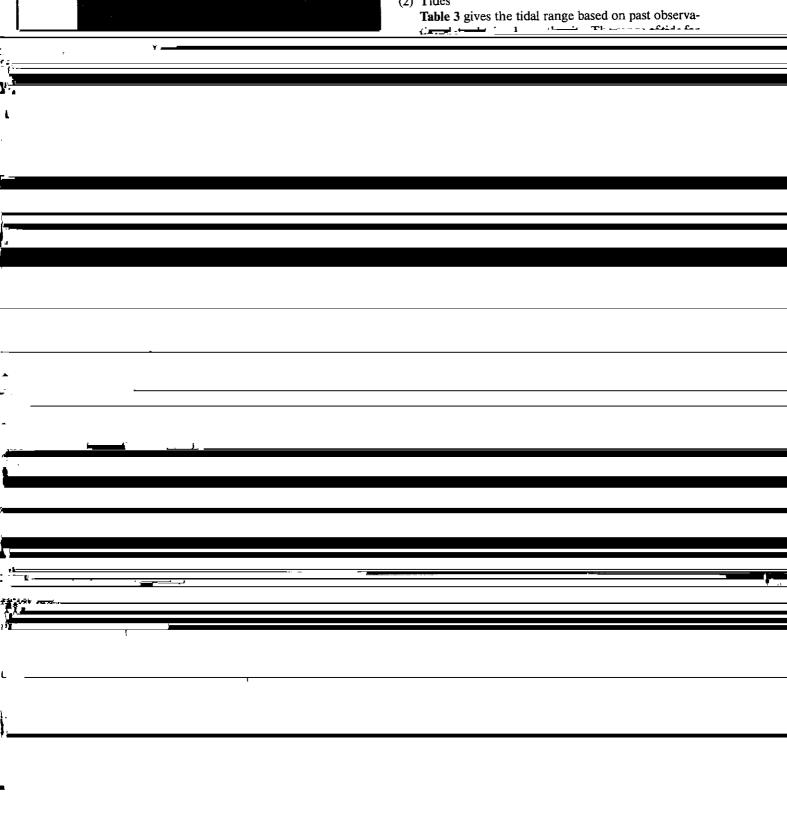






tropical cyclones during the months from June to August. Between April and May and again in September the direction of wind changes and the climate is relatively mild. Although winds blowing from north-northwest have no great effect on waves, winds from southwest and west have long fetches, and waves often develop into swells. Although the waves caused by ordinary winds are 1 m or less in height, waves (1/3-significant waves) under the influence of typhoons are about 2 to 3 m high.

(2) Tides



1	Classifi-	Eleva-		(3) Steel pile driving It took a large pile driving vessel about 20 days to sail
	<u></u>	tion	N-Value	F T A TO 1 / TZ - thateans the control of the contr
fo	1			
\}				
-				
-				
, <u> </u>				
•			J	<u></u>
		1		
;		že		
(100.1)				
· - ()				
1				
L				
1				
				•
· • ·				
2				

	selecting this welding process, laboratory tests and field	4 Steel Pile Driving (on the Sea) There were three main technical problems encoun-
	tanta succession and the Validity OCINIS	There were muce main technical brookins encoun-
	1	
·		
	,	
7		
<i>a</i> •		
,		
_	-	
	1	
	•	
	·	
_		

