

## DET NORSKE VERITAS

Certificate No OSL-12-4455

## PRODUCT CERTIFICATE

Manufacturer:		SKIPPE	R Electroni	cs AS			
Manufacturer's order No.:		81717					
Purchaser:		RAYTHE	EON				
Manufacturer's order No.:  Purchaser:  Purchaser's order No.:  The product is intended for Yard:  Yard No.:  Name of vessel:  DNV Id. No.:  THIS IS TO CERTIFY:  that the product:  Type designation:  Intended purpose: Serial No(s):  Has been built and tested in accordance with the DNV Rules for Classification:  DNV Rules for Classification:  Cheer stand  Remarks (if more than one line, use page 2):  The product was marked: NV-OSL-12-4455  This field is only to be filled in when the certification is to Manufacturing Survey Arrangement (MSA).  The undersigned manufacturer declares that the product been built and tested in accordance with the specification stated above and the conditions referred to in Manufacturing Survey Arrangement No: R-							
Purchaser's order No.:  The product is intended for Yard: Yard No.:  Name of vessel:  DNV Id. No.:  THIS IS TO CERTIFY: that the product:  Bottom Pel  SB-60-SA_ ETNSJB/ET The gate va speed log of 12155  Has been built and tested in accordance with the relevant requirement DNV Rules for Classification:  Nemarks (if more than one line, use page 2):							
Yard:	er's order No.:  RAY  order No.:  t is intended for  (TBI  ssel:  Expect P261  CERTIFY:  duct:  Bott  nation:  spec spec spec spec spec spec spec spe	(TBD)	BD)				
Yard No.:							
Name of vessel:		££ 33					
DNV Id. No.:		P261.10	.1C				
THIS IS TO CERTIFY:							
that the product:		Bottom	Penetratio	n for Echo Sounder,	Sonar or Log		
Intended purpose:		ETNSJE The gate speed le	3/ETNSLB-1 e valve may	00mm be used in conjunc	BX_, DB-100-SB, tion with installation of		
	NV Rules for Classification: 🖂 Ships 🖂 HS			☐ Naval	⊠ Offshore		
			On: <b>Gate Va</b>	ulve			
					hen signed by a DNV		
			surveyo	•	men signed by a bivv		
been built and tested in accordan stated above and the conditions r Manufacturing Survey Arra	ce with the specification/standa eferred to in angement No: <b>R-1948</b>	ard					
For Manufacturer:				For <b>Det Norsk</b> e	e Veritas AS		
Place: Oslo			Place: <b>Høvik</b>				
Date: <b>07.06.2012</b>			Date: <b>2</b>	012.07.05			
		Thomas R. Jacobsen Senior Surveyor					

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Remarks: The valve housing has been subjected to a hydrostatic pressure test, and the valve assembly to a seat leakage te 5 bar. Holding time 5 minutes.	t to
Marking and certificate numbers for the different parts:	
Drawings with dates of approval and/or type approval certificate number:  DNV S-6000	

DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Høvik, Norway, Tel.: +47 67 57 99 00, Fax: +47 67 57 99 11, Org.No. NO 945 748 931 MVA www.dnv.com Form No.: 20.92a Issue: October 2010 Page 2 of 2