



BRAFE ENGINEERING LTD
GRUNDISBURGH ROAD,
WOODBRIDGE,
SUFFOLK, IP13 6HX

Reference: 734714 (SM/DM)
Project Number: 2508052

ATTN: Mr. Ken Dean,

Ferrous and Non-Ferrous Foundry Facility and Process Approval **ABS Approval of Brafe Engineering Ltd., United Kingdom**

We have the ABS plant survey report HU1948022 dated 15 February 2011, your submittals of 17 January 2011 and 09 February 2011 together with enclosures relative to the subject. With regard thereto we advise that Brafe Engineering Ltd., United Kingdom is considered approved to produce hull and machinery castings to the requirements of *ABS Materials & Welding Rules Part 2 (2011)* as outlined below, provided the Rules are adhered to in all respects and all production and inspection are to the satisfaction of the attending ABS Surveyor.

Material Grades	: Non ABS Grades <ul style="list-style-type: none">- Carbon, Carbon - Manganese & Low Alloy Steels- Grey Cast Iron & Nodular Cast Iron- Austenitic, Martensitic, Duplex and Super Duplex Stainless Steels- High Nickel base alloys- Copper base alloys- Nickel - Aluminium Bronzes
Steel Making	: Induction Melting
Maximum Weight	: 750 kg
Casting Process	: Repliwax Investment casting
Product Examples	: Pump, valves and trim components

Production of castings is to be carried out in accordance with the ABS Materials Rules. Please note that all weld repairs and PWHT, if applicable, to ABS Class castings are to be approved prior to commencing the repair and carried out in accordance to ABS rules to the satisfaction of the attending Surveyor.

The approval is valid for five years from the date of the Plant Survey. ABS Houston Materials are hereby requested to issue the appropriate Certificate indicating the above details. Renewal of approval is to be sought by the subject facility prior to the five year expiry date. It is the responsibility of the facility to inform ABS of any changes in manufacturing parameters. Please find enclosed our invoice to cover the costs of the technical review.

If you need to contact ABS regarding this review, please call Satya Meruva on +44 (0) 207 377 4482 or e-mail smeruva@eagle.org.

Very truly yours,

David R. Morgan,
Manager,
London Offshore Engineering Department

CC: ABS Hull
EC: ABS Houston Materials



Drawing List

Engineering Office:	London Engineering Department	
Submitter:	BRAFE ENGINEERING LTD	
Drawing No	Revision No	Drawing Title
American Bureau of Shipping	-	Previous Cert
Email dtd 17 Jan 2011	-	Request for renewal of approval
Statistical data	-	ABS Certified Castings
HU 1948022	-	PS Report 15 Feb 2011
Email dtd 09 Feb 2011	-	List of grades produced
NCR Rectification procedure	-	Defects rectification