WELDING CONSUMABLE CERTIFICATE

ABS

Certificate No.: TL1818993-X1.R2

Port of: Toledo, Ohio

Date: 26 April 2010

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF HOBART BROTHERS CO-STICK ELECTRODE BUSINESS, ATTEND THEIR PLANT AT TROY, OHIO, ON THE 16TH DAY OF APRIL, 2010 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND TO WITNESS AND REPORT ON THE ANNUAL APPROVAL TESTING OF WELDING CONSUMABLES; AND,

THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE SHIELDED METAL ARC WELDING SECTION:

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
HOBALLOY 10018D2	AWS A5.5-2006	E10018-D2 H4R	N/A	All	AC/DCEP	3/32"-1/4"
HOBALLOY 10018M	AWS A5.5-2006	E10018-M H4R	N/A	All	DCEP	3/32"-5/32"
HOBALLOY 11018M	AWS A5.5-2006	E11018-M H4R	N/A	All	DCEP	3/32"-1/4"
HOBALLOY 12018M	AWS A5.5-2006	E12018-M H4R	N/A	All	DCEP	3/32"-1/4"
HOBALLOY 7018A1	AWS A5.5-2006	E7018-A1 H4R	N/A	All	AC/DCEP	3/32"-5/32"
HOBALLOY 8018B2	AWS A5.5-2006	E8018-B2 H4R	N/A	All	AC/DCEP	3/32"-3/16"
HOBALLOY 8018B2L	AWS A5.5-1981	E8018-B2L H4R	N/A	All	AC/DCEP	3/32"-1/4"
HOBALLOY 8018C1	AWS A5.5-2006	E8018-C1 H4	N/A	All	AC/DCEP	3/32"-3/16"
HOBALLOY 8018C2	AWS A5.5-2006	E8018-C2 H4	N/A	All	AC/DCEP	3/32"-1/4"
HOBALLOY 8018C3	AWS A5.5-2006	E8018-C3 H4	N/A	All	AC/DCEP	3/32"-3/16"
HOBALLOY 9018B3	AWS A5.5-1981	E9018-B3 H4R	N/A	All	AC/DCEP	3/32"-1/4"
HOBALLOY 9018B3L	AWS A5.5-1981	E9018-B3 H4R	N/A	All	AC/DCEP	3/32"-3/16"

Note: This Certificate evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHEILDING GAS	POSITION	CURRENT/ POLARITY	SIZE
HOBALLOY 9018M	AWS A5.5-2006	E9018-M H4R	N/A	All	AC/DCEP	3/32"-1/4"
HOBART 14A	AWS A5.1-2004	E7014	N/A	ALL	AC/DCEN	3/32"-3/16"
HOBART 24	ABS RULES 2010	GR. 3	N/A	F	AC/DCEN	3/32"-3/16"
HOBART 24	AWS A5.1-2004	E7024-1	N/A	F	AC/DCEN	3/32"-1/4"
HOBART 335A	AWS A5.1-2004	E6011	N/A	ALL	AC/DCEP	3/32"-3/16"
HOBART 335C	AWS A5.1-2004	E6011	N/A	ALL	AC/DCEP	3/32"-3/16"
HOBART 418	ABS RULES 2010	GR. 3,3Y H5	N/A	ALL	AC/DCEP	3/32"-3/16"
HOBART 418	AWS A5.1-2004	E7018 H4R	N/A	ALL	AC/DCEP	3/32"-1/4"
HOBART 447A	AWS A5.1-2004	E6013	N/A	ALL	AC/DCEN	3/32"-3/16"
HOBART 447C	AWS A5.1-2004	E6013	N/A	ALL	AC/DCEN	3/32"-5/32"
HOBART 718MC	ABS RULES 2010	GR. 3,3Y H5	N/A	ALL	AC/DCEN	3/32"-3/16"
HOBART 718MC	AWS A5.1-2004	E7018-1 H4R	N/A	ALL	AC/DCEP	3/32"-1/4"
Mckay 7018 XLM	AWS A5.1-2004	E7018-1 H4R	N/A	ALL**	AC/DCEP	3/32"-1/4"
**Suitable for V-down fillet welding.						
PIPEMASTER 60	AWS A5.1-2004	E6010	N/A	ALL	DCEP	3/32"-3/16"
PIPEMASTER PRO-60	AWS A5.1-2004	E6010	N/A	ALL	DCEP	3/32"-3/16"
PIPEMASTER 70	AWS A5.5-2006	E7010-P1	N/A	ALL	DCEP	3/32"-3/16"
PIPEMASTER 80	AWS A5.5-2006	E8010-P1	N/A	ALL	DCEP	3/32"-3/16"

ABS

Benjamin D. Mantey SURVEYOR TOLEDO FEB 4 2010

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