

OJSC MAGNITOGORSK IRON & STEEL WORKS Reference: STM/SM 980845
93, KIROVA ST., MAGNITOGORSK, Project Number: 2737222
CHELYABINSK REGION,

CHELYABINSK REGION, RUSSIAN FEDERATION, 455002

ATTN: Mr. Alexandre Gladskikh,

Steel Mill Process and Facility Approval ABS Approval of OJSC "Magnitogorsk Iron and Steel Works"

We have received the ABS Plant Survey report PB2249086 dated 13 December 2012 together with your submittals of February, March, April and October 2012 together with email discussion relative to the subject. With regard thereto we advise that OJSC "Magnitogorsk Iron and Steel Works", Chelyabinsk Region, Russian Federation is considered approved to supply ABS ordinary & higher strength hull steel as outlined below, provided the ABS Materials and Welding Rules Part 2 (2012) are adhered to in all respects and all production and inspection are carried out to the satisfaction of the attending ABS Surveyor.

Product	:	Plates	
ABS Grades	:	A/B/D including Z35	
Maximum Thickness	:	65 mm	
Steel Making	:	BOF	
Deoxidation Practice	:	Aluminium Killed	
Fine Grain Practice	:	Aluminium + Niobium + Titanium + Vanadium	
Casting Process	:	Continuously Cast	
Heat Treatment	:	Thermomechanical with Accelerated Cooling	
Marking	:	AB/A, AB/B & AB/DN and AB/A Z35, AB/B Z35 & AB/DN Z35	

Product	:	Plates	
ABS Grades	:	AH/DH including Z35	
Maximum Thickness	:	65 mm	
Steel Making	:	BOF	
Deoxidation Practice	:	Aluminium Killed	
Fine Grain Practice	:	Aluminium + Niobium + Titanium + Vanadium	
Casting Process	:	Continuously Cast	
Heat Treatment	:	Thermomechanical with Accelerated Cooling	
Marking	:	AB/AH 32/36, & AB/DH 32/36N; AB/AH 32/36 Z35 & AB/DH 32/36N Z35	

A copy of the documentation appropriately stamped to indicate our review is being retained. The approval is valid for five years from the date of the Plant Survey. 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.

Our invoice to cover the cost of this review is subject to separate correspondence. If you have any questions regarding the above review please contact Simon Mills at the following e-mail address smills@eagle.org.

Very truly yours

Satya Meruva

Senior Materials Engineer

London Offshore Engineering Department

CC: ABS St. Petersburg EC: ABS Houston Materials Dept



Drawing List

Engineering Office:	London Engineering Department		
Submitter:	JSC MAGNITOGORSK IRON & STEEL WORKS		
Drawing No	Revision No	Drawing Title	
Annex 1_BOF Shop Process Flow	-	Annex 1_BOF Shop Process Flow	
Annex 2_Hot Rolling Shop 9_Control Scheme	-	Annex 2_Hot Rolling Shop 9_Control Scheme	
ISO/Ts 16949	-	QA Approval Certificate	
for ABS	-	for ABS	
ISO_9001_2008_anlg_2011-12-17	-	ISO_9001_2008_anlg_2011-12-17	
Correspondence	-	Email 16.02.12 MMK Steel Mill Approval	
A5 BA 86-1	-	GL Approval Certificate	
A5 BA 86-2	-	DNV Certificate of Approval	
A5 BA 86-3	-	RMRS Manufacturer Approval Certificate	
A5 B 5G 9	-	RMRS Certificate of Approval	
Correspondence	-	Email dtd 28 04 2012	
Annex 1	-	NDT report	
Annex 3.1	-	Quality Control in BOF Shop	
Annex 3.2	-	Quality Control in Hot Rolling Shop 9	
Annex 4	-	Calibration Schedule 2012 for Hot Rolling Shop	
Annex 5	-	Repair Schedule for 2012	
Answers to additional questions from ABS	-	Answers to additional questions from ABS	
ENG 2	-	Personnel of OJSC MMK Testing Laboratory	
Correspondence	-	Email dtd 12 01 2012	
MMK Steel Mill Approval Request	-	MMK Steel Mill Approval Request	
Correspondence	-	Email dtd 16 03 2012	
Further NDT test results	-	Further NDT test results	
Correspondence	-	Email dtd 24 08 2012	
29587/A0 BV	-	BV Approval Certificate D	
29588/A0 BV	-	BV Approval Certificate DH36	
Correspondence	-	Email dtd 24 09 2012	
Correspondence	-	Email dtd 02 10 2012	
Correspondence	-	Email dtd 17 12 2012	
PB2249086	-	Plant Survey Report	
Technical Report and Conclusions Plate Certification for Rolling Mill 5000	-	Technical Report and Conclusions Plate Certification for Rolling Mill 5000	
34/148-2010	-	Technical Report NDT and Weldability Test Results	
Report BV D_D36	-	Report BV D_D36	
Report BV Weldability D36	-	Report BV Weldability D36	