

ORIGINAL



Roanoke Bar Division

Steel Dynamics - Roanoke Bar Division
P.O. Box 13948 Roanoke, VA 24038
Office: 540-342-1831 Fax: 540-342-9437

Test and Inspection Report

NO. 77736-2

ROANOKE

ENERGY & PROCESS CORP-FERGUSON

P O BOX 125
TUCKER

GA 30085-0125

Date 4/15/09

HEAT NUMBER	SIZE	1-YIELD Pt. KSI	ULTIMATE KSI	ELONG 8 IN. TEST	BEND TEST	GRADE				
JG7986	FLATS 1/4 X 1	48.6	68.5	28.8		ABS-GRA				
PURCHASE ORDER NUMBER	NUMBER PIECES	2-YIELD PT. KSI	ULTIMATE KSI	ELONG 8 IN. TEST	BEND TEST	GRADE				
E257-328	308 PIECES 20'	46.7	68.2	28.8		ABS-GRA				
HEAT NUMBER	SIZE	1-YIELD Pt. MPA	ULTIMATE MPA	ELONG 203mm TEST	BEND TEST	GRADE				
JG7986	FLATS 6.4 X 25.4	335.1	472.3	28.8		ABS-GRA				
PURCHASE ORDER NUMBER	NUMBER PIECES	2-YIELD PT. MPA	ULTIMATE MPA	ELONG 203mm TEST	BEND TEST	GRADE				
E257-328	308 PIECES 20'	322.0	470.2	28.8		ABS-GRA				
C	MN	S	P	SI	CR	NI	MO	CU	V	NB
.15	.70	.016	.009	.20	.06	.09	.02	.31	.002	.001

Q.A. APPROVED
ROANOK TECHNICAL PRODUCTS
Charles R. Charlton

Laura Buccia
XN10013B
17 Apr 09



MATERIAL MANUFACTURED IN ACCORDANCE WITH OUR QUALITY MANUAL (REVISION 12, DATED 8-04-08) BASED UPON ISO 9001-2000, ASME SECTION III DIV NCA3800 2004N ED. 2006 ADDENDA AND ASME SECTION II, 10CFR50 APPENDIX B, 10CFR21 AS APPROVED BY ENERGY AND PROCESS CORP. MERCURY, RADIUM OR OTHER ALPHA SOURCE MATERIALS IN ANY FORM HAVE NOT BEEN USED IN THE PRODUCTION OF THIS MATERIAL. NO WELD REPAIR HAS BEEN PERFORMED.

MIL-S-22898 REV C AMD #1 & #2 GR A CL-U

Approved ABS QA Mill. Certificate No. 00NN10108-X.

This material was melted and manufactured in the USA by basic Electric Furnace processes to meet specification: ASTM A36-05 ASME SA36 Q05741D A709-06A GR36
ABS-09 GR A

The tensile values stated in either inch-pound units or SI units are to be regarded as separate as defined in the ASTM scope for this material. Unless a metric specification is ordered, this material has been tested and meets the requirements of the inch-pound ranges.

This is to certify the above to be a true and accurate report as contained in the records of this company.

Engineer of Tests: Charles R. Charlton



Material Certification Report

(Steel Plate/Castings/Forgings, Etc.)

Document No.: 498916-1661643-001

Report No.: NN1661543		Port: Newport News, Virginia		Date: 17 April 2009	
Manufacturer: STEEL DYNAMICS ROANOKE BAR DIVISION				Order No.:	
Purchaser / Builder / S.Y.: ENERGY & PROCESS CORP-FERGUSON		Vessel.:	Hull No.:	Class No.:	
Shipped To: ENERGY & PROCESS CORP FERGUSON C/O HUDSON METAL PROCESS 1500 NATNL CEMETARY FLORENCE, SC 29506				Specification or Grade: AB GR A/AH36	
Description: REFER TO REMARKS COLUMN BELOW				ABS Markings:	
				⊗	
Shipping Statement / Mill Cert.# or Invoice Number	Date Shipped or Tested	Heat No. / Grade	No. of Pieces / Size	Total Weight	Remarks Additional Testing / PO# / Contract # / Etc.
MILL CERT NO. 76972-0	03-26-09	JG7935 AH36	40	14,960	3" X 3" X 1/2" X 40' ANGLES
MILL CERT NO. 76972-1	03-26-09	JG7935 AH36	88	16,458	3" X 3" X 1/2" X 20' ANGLES
MILL CERT NO. 76972-2	03-26-09	JG8520 GR A	16	4,898	3/4" X 6" X 20' FLATS
MILL CERT NO. 76972-3	03-26-09	JG8519 GR A	32	9,792	3/4" X 6" X 20' FLATS
MILL CERT NO. 77736-0	04-15-09	JG9027 AH 36	133	8,486	2" X 2" X 1/4" X 20' ANGLES
MILL CERT NO. 77736-1	04-15-09	JG9027 AH36	108	5,270	2" X 2" X 3/16" X 20' ANGLES
MILL CERT NO. 77736-2	04-15-09	JG7986 GR A	308	5,236	1/4" X 1" X 20' FLATS
MILL CERT NO. 77736-3	04-15-09	JG9027 AH 36	112	5,466	2" X 2" X 3/16" X 20' ANGLES
MILL CERT NO. 77736-4	04-15-09	JG9027 AH36	40	6,800	4" X 3" X 3/8" X 20' ANGLES
MILL CERT NO. 77736-5	04-15-09	JG8625 GR A	121	5,130	2 X 1 1/2" X 3/16" X 20' ANGLES
MILL CERT NO. 77736-6	04-15-09	JG9027 AH 36	32	10,880	4" X 3" X 3/8" X 40'
Total			1030	93,372	47 TONS

(complete other side of this form)

NOTE: This Report 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 Report is a representation only that the vessel, structure, item of material, equipment, machinery or any other item covered by this Report 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 full description of any restrictions or limitations on the vessel's service or surveys. The validity, applicability and interpretation of this Report is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any notation made in contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repeller, operator or other entity of any warranty express or implied.

DESCRIPTION Qty, Size, Dwg No., Piece No.	HEAT NO.	YIELD POINT	TENSILE STRENGTH	% ELONGATION	% REDUCTION IN AREA	CVN IMPACT (W)			AVG.			
						@	°					
Chemical & Physical Testing Verified on Manufacturers Mill Sheets												
SPEC. OR GRADE	SPECIFIED VALUES											
	UNITS				%	%	Joule/ft-lb:					
CHEM % (M) / Heat Number	C	Mn	P	S	Si	Cu	Cr	Mo	Ni	V	Cb	Al
Specified Values												

17 April 2009
(Date of Issue)

Bucci, Laura Elizabeth, Newport News Port
Surveyor, American Bureau of Shipping

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