LF 00014c.

DATE	8/15/11
INVOICE NO.	428242
BILL OF LADING	34796
CUSTOMER NO.	0029
CUSTOMER P.O.	4500079731

NUCOR-YAMATO STEEL CO.

P.O. BOX 1228 ◆ BLYTHEVILLE,AR 72316

CERTIFIED MILL TEST REPORT

100% MELTED AND MANUFACTURED IN U.S.A.
All shapes produced by Nucor-Yamato Steel are cast and rolled to a fully killed and fine grain practice.

SHIP TO:
FORTACERO C/O GULF STREAM MARINE
PORT OF BROWNSVILLE

BROWNSVILLE, TX

SPECIFICATIONS:
ASTM A992/A992M-06a A572/A572M GR50-07
ASTM A709/A709M-09 GR50 (345)
ASTM A709/A709M-09 GR50S (345S)
ASTM A6/A6M-09

SOLD TO:
FORTACERO S.A. DE CV
BLVD CARLOS SALINAS DE GORTARI
KM 8.8
APODACA, N.L. MEXICO 6660

ITEM #	ITEM DESCRIPTION	QTY	HEAT #	YIELD TO TENSILE RATIO	YIELD STRENGTH PSI / MPa	TENSILE STRENGTH PSI / MPa	ELONG % / %	CHARPY IMPACT TEMP °F / °C	IMPACT ENERGY FT-LBS / JOULES	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE / Pcm / CI
1	W10 - 54.0	7	370381	.75	52000	69000	26			.07	1.08	.014	.025	.19	.31	.12	.09		.00	.014	.30
	40'			.75	51000	68000	26											.02	.16		
	W250 x 80.0				359	476	26														
	12.192 M				352	469	26														
2	W10 - 54.0	36	370383	.76	54000	71000	26			.08	1.00	.015	.027	.25	.26	.12	.10	.03	.00	.016	[illegible]
	40'			.76	54000	71000	27											.01	.16		
	W250 x 80.0				372	490	26														
	12.192 M				372	490	27														
3	W10 - 54.0	29	370384	.77	54000	70000	28			.07	1.00	.016	.032	.23	.27	.12	.09	.03	.00	.015	[illegible]
	40'			.76	53000	70000	27											.01	.15		
	W250 x 80.0				372	483	28														
	12.192 M				365	483	27														
4	W10 - 68.0	37	370509	.77	56000	73000	26			.08	1.20	.019	.033	.28	.30	.11	.09	.03	.00		.33
	40'			.76	56000	74000	26											.01	[illegible]		
	W250 x101.0				386	503	26														
	12.192 M				386	510	26														
5	W10 - 68.0	8	370515	.75	56000	75000	26			.08	1.30	.019	.033	.34	.30	.11	.11	.03	.00	[illegible]	.36
	40'			.75	57000	76000	27											.01	.18		
	W250 x101.0				386	517	26														
	12.192 M				393	524	27														
6	W10 - 68.0	33	370518	.77	56000	73000	26			.07	1.20	.01[illegible]	.027	.32	.32	[illegible]	.10	.03	.00	.021	.33
	40'			.76	56000	74000	27											.02	.17		
	W250 x101.0				386	503	26														
	12.192 M				386	510	27														
7	W10 - 68.0	45	370520	.76	56000	74000	26			.07	1.20	.019	.033	.31	.32	.10	.11	.03	.00	.021	.33
	40'			.76	55000	72000	25											.02	.17		
	W250 x101.0				386	510	26														
	12.192 M				379	496	25														
8	W14 -132.0	1	369742	.78	56000	72000	26			.07	1.35	.021	.025	.22	.31	.10	.09	.03	.05	.003	.36
	40'			.78	56000	72000	27											.02	.18		
	W360 x196.0				386	496	26														
	12.192 M				386	496	27														
9	W14 -132.0	11	369964	.79	59000	75000	26			.07	1.36	.019	.023	.24	.32	.11	.13	.03	.05	.002	[illegible]
	40'			.78	58000	74000	26											.01	.18		
	W360 x196.0				407	517	26														
	12.192 M				400	510	26														

CARBON EQUIVALENT: CE = CE(HW) = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15
Mercury has not been used in the direct manufacturing of this material.

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by this material manufacturer are in compliance with the requirements of the material specifications listed in the Specifications Block above.

QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS 15 Day of 08/11

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2015

CHARLENE WALLIS NOTARY PUBLIC MY Comm. Exp. 10-21-2015 MISSISSIPPI CO. ARKANSAS