

BRATTLEBORO BRF 1442(35)

**ITEM 507.11 - LEVEL 1
REBAR CERTIFICATION PACKET**

19 PGS.

VERMONT AGENCY OF TRANSPORTATION
MATERIALS && RESEARCH SECTION
CERTIFICATION && INDEPENDENT ASSURANCE UNIT

TYPE "D" RECORD OF CERTIFICATION FROM MANUFACTURER

NAME OF MANUFACTURER: NUCOR STEEL AUBURN, INC.

ADDRESS: 25 QUARRY ROAD, AUBURN, NY 13021

WE HEREBY CERTIFY: REINFORCING STEEL, LEVEL I

IN THE QUANTITY OF: 90,186 LB
(Plan Quantity)

FURNISHED BY: CAPITAL STEEL / ADELPHIA METALS
(Contractor or Supplier)

FOR USE ON: 0290 BRATTLEBORO BRO 1442(35)

IDENTIFIED BY: MILL MARKS HEAT NO: AU13106465, AU13106466, AU13106467, AU13102742,
AU13100788, AU13100790, AU12106251, AU14100742, AQU12104739

CONFORMS TO ALL REQUIREMENTS OF THE STATE OF VERMONT AGENCY OF TRANSPORTATION 2011 STANDARD SPECIFICATIONS, PERTINENT PROJECT PLANS, AND SPECIAL PROVISIONS FOR THE ABOVE STATED CONTRACT FOR ITEM OR ITEMS LISTED AS FOLLOWS: 507.11 AND THAT PROCESSING, PRODUCT TESTING AND INSPECTION CONTROL OF RAW MATERIALS ARE IN CONFORMITY WITH ALL APPLICABLE SPECIFICATIONS, DRAWINGS AND/OR STANDARDS OF ALL MATERIALS FURNISHED.

Subscribed and sworn to before me 6/30/2014

By: 
Signature of Authorized

ASHLEY ELIZABETH SMITH
Notary Public, State of New York
No. 01SM6268789
Qualified in Cayuga County
Commission Expires September 17, 2016

Notary 
Commission Expiring September 17, 2016

Name (Type or *Kenny L. Oller*)
Title: *Rolling Mill Metallurgist*
Company Status or

CERTIFICATIONS FOR MATERIALS REQUIRING A TYPE "C" OR "D" CERTIFICATION, WHEN SPECIFIED BY CONTRACT PROVISIONS, MUST BE ACCOMPANIED BY MILL TEST REPORTS SHOWING CHEMICAL AND PHYSICAL ANALYSES.

THIS CERTIFICATION IS TO BE COMPLETED BY THE MANUFACTURER OF THE MATERIALS AND NOT BY THE SUPPLIER OR DEALER. THIS CERTIFICATION IS TO BE SENT TO:

Vermont Agency of Transportation

Materials && Research Section
2178 Airport Road, Unit B
Berlin, Vermont 05641
Attention: C && IA Supervisor

TA 562
Rev 02/03

Sold To: ADELPHIA METALS I LLC
 411 MAIN ST E
 NEW PRAGUE, MN 56071-0000
 (952) 758-7500

Ship To: ADELPHIA METALS
 CUSTOMER PICK UP
 WILLOW GROVE, PA 19090-0000
 (800) 357-8335

Customer P.O.	811012	Sales Order	306261.2
Product Group	Rebar	Part Number	900000164804205
Grade	ASTM A615/A615M-12 GR 60[420] AASHTO M31-07	Lot #	AU1310646701
Size	16/#5 Rebar	Heat #	AU13106467
Product	16/#5 Rebar 40' A615M GR420 (Gr60)	B.L. Number	Y1-437066
Description	A615M GR 420 (Gr60)	Load Number	Y1-183979
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 1/1/2014 Melt Date: 12/20/2013 Qty Shipped LBS: 15,018 Qty Shipped Pcs: 360

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.44%	1.18%	0.022%	0.048%	0.20%	0.38%	0.11%	0.13%	0.024%	0.0010%	0.001%

Yield 1: 67,100psi (463MPa)

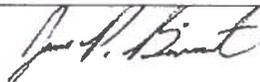
Tensile 1: 107,400psi (740MPa)

Elongation: 14.08% in 8" (% in 203.3mm)

Bend OK

Specification Comments:

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.



Jim Biernat

Division Metallurgist

Sold To: ADELPHIA METALS I LLC
 411 MAIN ST E
 NEW PRAGUE, MN 56071-0000
 (952) 758-7500

Ship To: ADELPHIA METALS
 CUSTOMER PICK UP
 WILLOW GROVE, PA 19090-0000
 (800) 357-8335

Customer P.O.	811012	Sales Order	306261.2
Product Group	Rebar	Part Number	900000164804205
Grade	ASTM A615/A615M-12 GR 60[420] AASHTO M31-07	Lot #	AU1310646601
Size	16/#5 Rebar	Heat #	AU13106466
Product	16/#5 Rebar 40' A615M GR420 (Gr60)	B.L. Number	Y1-437066
Description	A615M GR 420 (Gr60)	Load Number	Y1-183979
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements

Roll Date: 1/1/2014 Melt Date: 12/20/2013 Qty Shipped LBS: 5,006 Qty Shipped Pcs: 120

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.43%	1.20%	0.031%	0.053%	0.21%	0.31%	0.10%	0.14%	0.020%	0.0010%	0.001%

Yield 1: 68,600psi (473MPa)

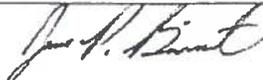
Tensile 1: 109,300psi (754MPa)

Elongation: 15.88% in 8"(% in 203.3mm)

Bend OK

Specification Comments:

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.



Jim Biernat

Division Metallurgist

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 411 MAIN ST E
 NEW PRAGUE, MN 56071-0000
 (952) 758-7500

Ship To: ADELPHIA METALS
 CUSTOMER PICK UP
 WILLOW GROVE, PA 19090-0000
 (800) 357-8335

Customer P.O.	810762	Sales Order	305531.3
Product Group	Rebar	Part Number	900000164804205
Grade	ASTM A615/A615M-12 GR 60[420] AASHTO M31-07	Lot #	AU1310646501
Size	16/#5 Rebar	Heat #	AU13106465
Product	16/#5 Rebar 40' A615M GR420 (Gr60)	B.L. Number	Y1-435950
Description	A615M GR 420 (Gr60)	Load Number	Y1-182858
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 1/1/2014 Melt Date: 12/20/2013 Qty Shipped LBS: 5,006 Qty Shipped Pcs: 120

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.43%	1.15%	0.025%	0.051%	0.21%	0.30%	0.10%	0.14%	0.020%	0.0010%	0.001%

Yield 1: 65,000psi (448MPa)

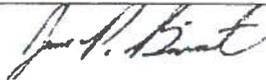
Tensile 1: 102,800psi (709MPa)

Elongation: 14.3% in 8' (% in 203.3mm)

Bend OK

Specification Comments:

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.



Jim Biernat

Division Metallurgist

Mill Certification Details

NUCOR

NUCOR STEEL AUBURN, INC.

Mill Certification Details - 10/3/2013 4:49 PM

Purchase Order #: 807483
 Customer: ADELPHIA METALS I LLC - EDISON
 Bill of Lading #: 423328
 Chief Metallurgist : Jim Biernat
 Lot #: AU1310274201
 Product : RS
 Grade: ASTM A615/A615M-12 GR 60(420) AASHTO M31-07
 Melt Date : 05/31/2013
 Comments :

Heat #: AU13102742
 Customer Part # :
 Length: 40'0"
 Date : 5/31/2013
 Tag # : AU1311062231
 Size : 19#6 Rebar
 Division : Auburn, NY
 Roll Date: 06/11/2013

Chemical Properties -Wt.%

C	Mn	Si	S	P	Cu	Cr	Ni	Mo	V	Nb	Sn
0.45	1.15	0.24	0.062	0.016	0.37	0.17	0.13	0.030	0.0310	0.001	0.017

Physical Properties

Imperial -psi

Tensile: 107100
 Yield: 69000
 Elongation (in 8 inches): 15.94
 Elongation (in 2 inches):
 Bend Test: OK

The testing was conducted in accordance with the requirements of this specification. All melting and manufacturing processes were performed in the United States of America.


 Jim P. Biernat
 Chief Metallurgist

Sold To: ADELPHIA METALS I LLC
 411 MAIN ST E
 NEW PRAGUE, MN 56071-0000
 (952) 758-7500

Ship To: ADELPHIA METALS
 CUSTOMER PICK UP
 WILLOW GROVE, PA 19090-0000
 (800) 357-8335

Customer P.O.	808280	Sales Order	298685.3
Product Group	Rebar	Part Number	900000224804205
Grade	ASTM A615/A615M-12 GR 60[420] AASHTO M31-07	Lot #	AU1310079001
Size	22/#7 Rebar	Heat #	AU13100790
Product	22/#7 Rebar 40' A615M GR420 (Gr60)	B.L. Number	Y1-425133
Description	A615M GR 420 (Gr60)	Load Number	Y1-172161
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 2/17/2013 Melt Date: 2/6/2013 Qty Shipped LBS: 5,069 Qty Shipped Pcs: 62

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.42%	0.98%	0.015%	0.052%	0.22%	0.29%	0.07%	0.16%	0.022%	0.0110%	0.003%

Yield 1: 70,200psi (484MPa)

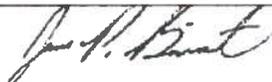
Tensile 1: 106,500psi (734MPa)

Elongation: 14.34% in 8"(% in 203.3mm)

Bend OK

Specification Comments:

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Jim Biernat

Division Metallurgist

Sold To: ADELPHIA METALS I LLC
 411 MAIN ST E
 NEW PRAGUE, MN 56071-0000
 (952) 758-7500

Ship To: ADELPHIA METALS
 CUSTOMER PICK UP
 WILLOW GROVE, PA 19090-0000
 (800) 357-8335

Customer P.O.	808280	Sales Order	298685.3
Product Group	Rebar	Part Number	900000224804205
Grade	ASTM A615/A615M-12 GR 60[420] AASHTO M31-07	Lot #	AU1310078801
Size	22/#7 Rebar	Heat #	AU13100788
Product	22/#7 Rebar 40' A615M GR420 (Gr60)	B.L. Number	Y1-425133
Description	A615M GR 420 (Gr60)	Load Number	Y1-172161
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 2/17/2013 Melt Date: 2/6/2013 Qty Shipped LBS: 15,207 Qty Shipped Pcs: 186

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.42%	1.05%	0.024%	0.047%	0.22%	0.32%	0.08%	0.20%	0.025%	0.0110%	0.002%

Yield 1: 73,500psi (507MPa)

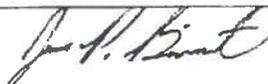
Tensile 1: 108,700psi (749MPa)

Elongation: 14.05% in 8'(% in 203.3mm)

Bend OK

Specification Comments:

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Jim Biernat

Division Metallurgist

Mill Certification Details



NUCOR STEEL AUBURN, INC

Mill Certification Details - 6/13/2014 9:50 AM

Purchase Order #: 807981
 Customer: ADELPHIA METALS I LLC - WILLOW GROVE
 Bill of Lading #: 423807
 Chief Metallurgist: Jim Biernat
 Lot #: AU1210625101
 Product: RS
 Grade: ASTM A615/A615M-12 GR 60(420) AASHTO M31-07
 Melt Date: 12/12/2012
 Comments:

Heat #: AU12106251
 Customer Part # :
 Length: 400'
 Date: 12/13/2012
 Tag #: AU1211133697
 Size: 25#8 Rebar
 Division: Auburn, NY
 Roll Date: 12/13/2012

Chemical Properties -Wt.%

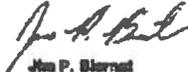
C	Mn	Si	S	P	Cu	Cr	Ni	Mo	V	Nb
0.43	1.05	0.21	0.042	0.013	0.36	0.12	0.11	0.046	0.0120	0.001

Physical Properties

Imperial -psi

Tensile: 109600
 Yield: 74000
 Elongation (in 8 inches): 13.92
 Elongation (in 2 inches):
 Bend Test: OK

The testing was conducted in accordance with the requirements of this specification. All melting and manufacturing processes were performed in the United States of America.



Jim P. Biernat
 Chief Metallurgist

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 411 MAIN ST E
 NEW PRAGUE, MN 56071-0000
 (952) 758-7500

Ship To: ADELPHIA METALS
 CUSTOMER PICK UP
 WILLOW GROVE, PA 19090-0000
 (800) 357-8335

Customer P.O.	808315	Sales Order	298798.3
Product Group	Rebar	Part Number	900000294804200
Grade	ASTM A615/A615M-12 GR 60[420] AASHTO M31-07	Lot #	AU1210473901
Size	29/#9 Rebar	Heat #	AU12104739
Product	29/#9 Rebar 40' A615M GR420 (Gr60)	B.L. Number	Y1-425672
Description	A615M GR 420 (Gr60)	Load Number	Y1-172311
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 10/1/2012 Melt Date: 9/27/2012 Qty Shipped LBS: 26,928 Qty Shipped Pcs: 198

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.42%	1.02%	0.018%	0.055%	0.20%	0.36%	0.09%	0.17%	0.027%	0.0100%	0.001%

Yield 1: 68,700psi (474MPa)

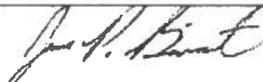
Tensile 1: 106,300psi (733MPa)

Elongation: 13.5% in 8'(% in 203.3mm)

Bend OK

Specification Comments:

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Jim Biernat
 Division Metallurgist

Sold To: ADELPHIA METALS I LLC
 411 MAIN ST E
 NEW PRAGUE, MN 56071-0000
 (952) 758-7500

Ship To: ADELPHIA METALS
 CUSTOMER PICK UP
 WILLOW GROVE, PA 19090-0000
 (800) 357-8335

Customer P.O.	811303	Sales Order	307146.1
Product Group	Rebar	Part Number	900000294804200
Grade	ASTM A615/A615M-12 GR 60[420] AASHTO M31-07	Lot #	AU1410074201
Size	29/#9 Rebar	Heat #	AU14100742
Product	29/#9 Rebar 40' A615M GR420 (Gr60)	B.L. Number	Y1-438552
Description	A615M GR 420 (Gr60)	Load Number	Y1-185422
Customer Spec		Customer Part #	

I hereby certify that the material described here'in has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements

Roll Date: 2/9/2014 Melt Date: 2/7/2014 Qty Shipped LBS: 17,952 Qty Shipped Pcs: 132

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.43%	1.04%	0.015%	0.048%	0.19%	0.35%	0.07%	0.11%	0.020%	0.0090%	0.001%

Yield 1: 67,700psi (467MPa)

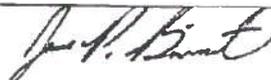
Tensile 1: 105,800psi (729MPa)

Elongation: 15.5% in 8"(% in 203.3mm)

Bend OK

Specification Comments:

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Jim Biernat

Division Metallurgist



US-ML-SAYREVILLE
 NORTH CROSSMAN ROAD
 SAYREVILLE, NJ 08872
 USA

CERTIFIED MATERIAL TEST REPORT

CUSTOMER PURCHASE ORDER NUMBER 808924	BILL OF LADING 1331-0000010065	DATE 09/10/2013	CUSTOMER SHIP TO ADELPHIA METALS LLC 1930 MARLTON PIKE E CHERRY HILL, NJ 08003-4202 USA	CUSTOMER BILL TO ADELPHIA METALS LLC 411 MAIN ST E NEW PRAGUE, MN 56071-2237 USA	GRADE 60 (420)	SHAPE / SIZE Rebar / #10 (32MM)	WEIGHT 38.556 LB	HEAT / BATCH 6109418003
			CUSTOMER MATERIAL N° 559305/000010		SPECIFICATION / DATE OF REVISION L-ASTM A615/A615M-09			

CHEMICAL COMPOSITION		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sb	V	Chemical
%	%	%	%	%	%	%	%	%	%	%	%	%	%
0.46	0.66	0.036	0.025	0.23	0.26	0.16	0.27	0.071	0.012	0.030			Chemical 706 0.61

MECHANICAL PROPERTIES		YS	UTS	UTS	G/L	G/L
MPa	PSI	MPa	PSI	MPa	PSI	MPa
70897	102816	489	709	8,000	8,000	2000.0
70975	102816			8,000	8,000	2000.0

MECHANICAL PROPERTIES		Elong.	BendTest
%		OK	OK
13.00		OK	OK
13.00		OK	OK

GEOMETRIC CHARACTERISTICS			
Weight	Def.Hgt	Def.Cap	Def.Space
g	inch	inch	inch
4.30	0.075	0.172	0.819
4.30	0.072	0.168	0.819

COMMENTS / NOTES

The above figures are certified chemical and physical test records as contained in the permanent records of company. This material, including the billets, was melted and manufactured in the USA. CMTR complies with EN 10204 3.1.

Maskey
 BIJASKAR VALAMANCHILI
 QUALITY DIRECTOR

MARCO FIGAROA
 QUALITY ASSURANCE MGR.

Charlie Ezequelle

From: Alex Dunklee [adunklee@sover.net]
Sent: Friday-July 18-2014 1-24 PM
To: 'Charlie Ezequelle'
Subject: FW: Notary - Gerdau
Attachments: ASTM_compliance_and_certification_rebar.pdf; Certificate_of_Origin_USA_and_ARRA.pdf

From: Jay Carr [<mailto:jay@capitolsteelt.com>]
Sent: Friday, July 18, 2014 11:43 AM
To: Alex Dunklee
Subject: FW: Notary - Gerdau

From: Carol Brown [<mailto:carol.brown@adelphiametals.com>]
Sent: Friday, July 18, 2014 11:19 AM
To: jay@capitolsteelt.com
Subject: FW: Notary - Gerdau

Hi Jay,
I requested a written explanation of what I was told regarding the notorization issue @ Gerdau, which is below, along with letters I was provided. I'm hoping this might help you. Please let me know if these aren't sufficient & if there's anything else I might be able to do to help.
Thanks,
Carol

Carol,

As a policy, our company will not sign off on forms that we receive regarding our material that was used in projects. We sold the material based on it meeting the standard ASTM specifications that were required and that information is furnished on the mill test certificate. With this letters stating that there are other standards, project plans and special provisions that may have been involved, the company won't sign off on it and accept any liability for standards that the company did not agree to prior to sale and delivery of the bar. The attached letters confirming that our materials meet the specifications laid out on the mill certs is the most we can provide.

Let us know if you have any questions regarding this information.

Thank you,
-Wes

Wes Lamneck
Account Specialist
Gerdau - Tampa Corporate Office

NOTICE



February 1, 2014

ASTM Compliance and Product Certification for Rebar

Reinforcing steel specified on the Certified Mill Test Report as ASTM A615, A706, or both, does in fact conform to these ASTM specifications.

The identified steel shipped is composed of the heats indicated and is represented by the samples tested. The test results indicated on Certified Mill Test Report are actual test results obtained on samples of the steel heats. All sampling, chemical analysis, physical testing and measuring is performed in accordance with ASTM A615, A706 or both.

Sincerely,

A handwritten signature in cursive script that reads 'Bhaskar'.

Bhaskar Yalamanchili
Director Corporate Quality
Office: (813) 207-2394
Mobile: (409) 267-1071
bhaskar.yalamanchili@gerdau.com



February 1, 2014

ASTM Compliance for Rebar

We hereby certify that steel reinforcing bars produced by GerdaU as Grade 40 (grade 280), Grade 60 (grade 420) and Grade 75 (grade 520) meet ASTM A615 (latest revision) specifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bhaskar'.

Bhaskar Yalamanchili
Director Corporate Quality
Office: (813) 207-2394
Mobile: (409) 267-1071
bhaskar.yalamanchili@gerdau.com



February 1, 2014

Mill Test Report / Product Certification

To Whom It May Concern:

Steel products produced by GerdaU are supplied with a mill test report showing the heat number along with the chemical and physical properties of the product. This mill test report is same as the product certification. If you need any further information, please contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads 'Bhaskar'.

Bhaskar Yalamanchili
Director Corporate Quality
Office: (813) 207-2394
Mobile: (409) 267-1071
bhaskar.yalamanchili@gerdau.com



February 1, 2014

Certificate of Origin, USA

All steel reinforcing bar supplied by Gerdau from following steel mills is melted and manufactured in the United States of America and complies with the Buy American provisions of the ARRA (American Recovery Reinvestment Act).

Rancho Cucamonga, California
Jacksonville, Florida
Wilton, Iowa
St Paul, Minnesota
Sayreville Mill, New Jersey
Charlotte, North Carolina
Knoxville, Tennessee
Jackson, Tennessee
Beaumont, Texas
Midlothian, Texas

Sincerely,

Gerdau

A handwritten signature in black ink, appearing to read 'Bhaskar'.

Bhaskar Yalamanchili
Director of Quality
Office: 813-207-2394
Mobile: 409-267-1071
bhaskar.yalamanchili@gerdau.com



February 1, 2014

Rebar Certificate of Origin, USA

All steel reinforcing bar supplied by GerdaU from following steel mills is melted and manufactured in the United States of America and complies with the Buy America requirements found in 23 CFR 635.410.

Rancho Cucamonga, California
Jacksonville, Florida
St Paul, Minnesota
Sayreville, New Jersey
Charlotte, North Carolina
Knoxville, Tennessee
Jackson, Tennessee
Beaumont, Texas
Midlothian, Texas

Sincerely,

A handwritten signature in black ink that reads 'Bhaskar' with a horizontal line underneath.

Bhaskar Yalamanchili
Director Corporate Quality
Office: (813) 207-2394
Mobile: (409) 267-1071
bhaskar.yalamanchili@gerdau.com



March 26, 2014

FHWA's Buy America Compliance

Various agencies and customers require that the manufacturing origin of our steel products be stated on the material test report. The statement listed below is used by GerdaU Long Steel North America to comply with these requirements and will be printed on the material test report in the area above the signature.

"This material, including the billets, was melted and manufactured in the USA."

When this statement is present, GerdaU certifies that material was melted and manufactured in the United States of America and complies with the FHWA's policy for Buy America as described in Title 23 CFR 635.410.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bhaskar' with a horizontal line underneath.

Bhaskar Yalamanchili
Director Corporate Quality
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