



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Welcome, Lu Anne Cottrill

Procurement

Budgeting

Accounts Receivable

Accounts Payable

Solicitation Response(SR)

Dept: 0804

ID: ESR05041800000005035

Ver.: 1

Function: New

Phase: Final

Modified by batch , 05/09/2018

Header 1

List View

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 442001

SO Doc Code: CRFQ

Procurement Type: Central Purchase Order

SO Dept: 0804

Vendor ID: 000000179685

SO Doc ID: RMA1800000008

Legal Name: NATIONAL RAILWAY EQUIP.

Published Date: 4/24/18

Alias/DBA:

Close Date: 5/9/18

Total Bid: \$44,940.80

Close Time: 13:30

Response Date: 05/07/2018

Status: Closed

Response Time: 17:05

Solicitation Description: Locomotive parts for EMD locos

Total of Header Attachments: 1

Apply Default Values to Commodity Lines

View Procurement Folder



Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
Charleston, WV 25305-0130

State of West Virginia  
Solicitation Response

Proc Folder : 442001

Solicitation Description : Locomotive parts for EMD locos

Proc Type : Central Purchase Order

Date issued	Solicitation Closes	Solicitation Response	Version
	2018-05-09 13:30:00	SR      0804 ESR05041800000005035	1

VENDOR

000000179685

NATIONAL RAILWAY EQUIP.

Solicitation Number:    CRFQ    0804      RMA18000000008

Total Bid :      \$44,940.80                      Response Date:    2018-05-07                      Response Time:    17:05:01

Comments:

FOR INFORMATION CONTACT THE BUYER

Brittany E Ingraham  
(304) 558-2157  
brittany.e.ingraham@wv.gov

Signature on File

FEIN #

DATE

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	PED Liner Part #9324108	48.00000	EA	\$38.000000	\$1,824.00

Comm Code	Manufacturer	Specification	Model #
73161603			

Extended Description : Pedestal Liner - EMD Part #9324108

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Swing Hanger - Part #8068222	16.00000	EA	\$2,527.000000	\$40,432.00

Comm Code	Manufacturer	Specification	Model #
73161603			

Extended Description : Swing Hanger- EMD Part #8068222

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Block, Bearing - Part #8044697	16.00000	EA	\$54.500000	\$872.00

Comm Code	Manufacturer	Specification	Model #
73161603			

Extended Description : Block, Swing Hanger Bearing - EMD Part #8044697

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Lower Half Bearing - Part #8044698	16.00000	EA	\$54.500000	\$872.00

Comm Code	Manufacturer	Specification	Model #
73161603			

Extended Description : Lower Half Bearing - EMD Part #8044698



Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	Bushing - Part #8068056	64.00000	EA	\$5.800000	\$371.20

Comm Code	Manufacturer	Specification	Model #
73161603			

Extended Description :	Bushing Swing Hanger - EMD Part #8068056
------------------------	------------------------------------------

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	Pin - Part #8100653	32.00000	EA	\$17.800000	\$569.60

Comm Code	Manufacturer	Specification	Model #
73161603			

Extended Description :	Pin, Swing Hanger EMD Part #8100653
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**NRE<sup>®</sup>**




**WEL**

**2018**



**COME**

**MOVING FORWARD**

The background image is a dark, atmospheric photograph of the front of a train engine. The engine is white with a large black 'NRE' logo on the front. Above the logo, the number '4321' is visible on two separate plates. The engine is emitting a large plume of white steam or smoke from the bottom. The overall tone is industrial and powerful.

**“A strong business is not something that can be run from the confines of a board room. You have to be in it... a part of it... each and every day.”**

**— LAWRENCE BEAL**





# NRE<sup>®</sup> OVERVIEW

Headquartered in the U.S. Heartland in Mt. Vernon, Illinois, employee-owned NRE is a global leader in the rail, marine and power industries.

# OUR HISTORY

## 1980

LAWRENCE BEAL FOUNDED NRE

Silvis, IL facility acquired — **1990**

**1992** — Houma, LA facility acquired

Dixmoor, IL facility acquired — **1995**

**1997** — Mt Vernon, IL facility acquired

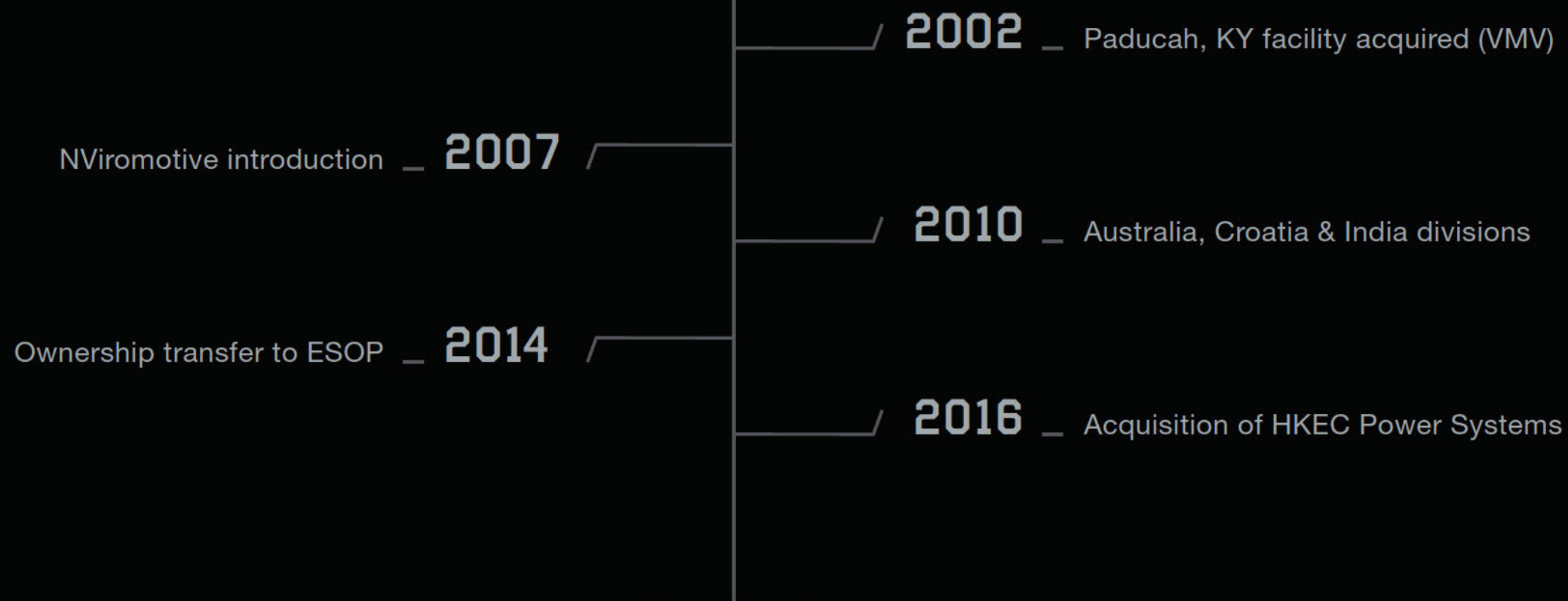
Australia affiliate company formed — **1999**

**2002** — Milwaukee, WI facility acquired (wheelworks)





## OUR HISTORY (CONT.)



...AND STILL MOVING FORWARD



**STEVEN BEAL**  
President & CEO

**PATRICK FRANGELLA**  
Chief Operating Officer

**ROB RILEY**  
VP & Chief Financial Officer

**MIKE ZERAFA**  
AVP of North American Sales  
& Business Development

**MIKE CROSS**  
VP of Engineering

**WILL BURROWS**  
VP of International Affairs

**KEN COX**  
VP North American Operations

**WILLIE BREMERMAN**  
VP of International Operations

**ANGELA HOLMES**  
VP of Human Resources

# GLOBAL PRESENCE

- 11 North American,  
5 International locations
- 5 fully equipped remanufacturing  
locomotive service centers
- Engineering, fabrication and panel manufacturing plant
- 9 remanufacturing and new manufacturing  
support facilities
- 350 acres, 1,900,000 sq. ft.  
under roof operations





11

NORTH AMERICAN  
LOCATIONS

## UNITED STATES

Mt. Vernon, IL  
(4 Facilities)

Silvis, IL

Dixmoor, IL

Hagerstown, MD

Paducah, KY

Milwaukee, WI

Houma, LA

Belle Chasse, LA

Waycross, GA

Houston, TX

## CANADA

Calgary, AB

5

# INTERNATIONAL LOCATIONS

EUROPE

CROATIA

AFRICA

INDIA

AUSTRALIA

# MT. VERNON ILLINOIS

- 300,000 sq. ft. of production
- AAR M-1103 & ISO 9001:2008 quality standard
- Engine shop - one engine test cells
- High voltage cabinets
- NViro POD (MPP)
- Capabilities
  - Service
  - Field Service
  - New Parts & Components
  - Remanufactured Parts & Components
  - New Locomotives
  - Remanufactured Locomotives
  - Salvage
  - Fabrication
  - Engineering Services







# PADUCAH KENTUCKY

- 450,000 sq. ft. of production
- AAR M-1103 and ISO 9001:2008 quality standard
- Engine shop - two engine test cells
- Electrical rotating shop
- Wheel shop
- Capabilities
  - Service
  - Field Service
  - New Parts & Components
  - Remanufactured Parts & Components
  - New Locomotives
  - Remanufactured Locomotives
  - Salvage





# SILVIS ILLINOIS

- 260,000 sq. ft. production area
- AAR M-1003 Quality Standards
- Electrical rotating shop
- Test track
- Capabilities
  - Service
  - New Parts & Components
  - Remanufactured Parts & Components
  - New Locomotives
  - Remanufactured Locomotives
  - Lease
  - Salvage

# DIXMOOR ILLINOIS



- Capabilities
  - Service
  - New Parts & Components
  - Remanufactured Parts & Components
  - New Locomotives
  - Remanufactured Locomotives
  - Lease





# CALGARY ALBERTA



- NForce - Locomotive Control
- NCompass - Condition-based monitoring and position
- NLight - LED Lighting
- NLimit - Idling Control
- NHance - Wheel Slip Control
- NGauge - Electronic Fuel Gauge
- Propulsion Control - Choppers/Inverters/Converters
- Capabilities
  - Locomotive Propulsion & Control
  - Engineering Services



A man with glasses and a blue shirt is working on a large, complex metal component. He is using a wrench to adjust a part of the assembly. The component has several bolts and a cylindrical base. The background is a workshop setting.

# HAGERSTOWN MARYLAND

- The ONLY aftermarket supplier of power assemblies that manufactures our own key components in our US facilities
- In-house produced iron castings at the Foundry in Weston, West Virginia
- AAR-M1003 Certified Power Assembly Components
- ISO 9000 Certified
- SOX Compliant



# MILWAUKEE WISCONSIN

- 20,000 sq. ft. production area
- Full service AAR M-1003 wheel shop
- Locomotive & freight
- Capabilities
  - Wheel Sets



A photograph of the front of a white and blue NRE locomotive, number 4321, on a track. The locomotive has 'NRE' and '4321' clearly visible on its front. The background shows a blue sky with clouds.

# CLIENTS SERVED

- Class 1
- Short Line/Regional
- Marine, Salvage, Agriculture/Food Processing, Steel Mills, Ethanol, Noval Chemicals, Mining & Commodity Companies
- Transit/OEM
- Government/Funded
- Leasing Companies



# NRE SOLUTIONS

- Locomotives
- Locomotive Services
- Power
- Electrical
- Undercarriage
- Technology
- Structures
- Parts



# LOCOMOTIVES

As the largest independent supplier of locomotives in the world, NRE, provides full, comprehensive locomotive solutions.

- New
- Remanufactured
- Leased
- Used
- Demonstration
- Repower



# LOCOMOTIVE SERVICES

NRE offers customers a wide variety of services and options when evaluating your locomotive fleet. Programs are tailored to meet your specific requirements to ensure we provide you the highest level of quality service and most flexible solutions.

- Design & Application Engineering
- Fleet Maintenance
- Consulting
- Project Management
- Field Service
- Financing or Leasing
- 92-day, Annual & Tri-annual Inspections
- Control System & Propulsion Upgrades
- Engine Remanufacturing
- Engineering Services
- Paint
- Top Deck & Lower Deck Overhauls
- Wreck Repairs



# POWER

With the capability of offering and servicing all locomotive diesel engines, gensets and power systems, regardless of manufacturer, NRE is the world largest independent supplier of locomotives offering solutions meeting or exceeding Tier 0+ thru Tier 4 emission standards.

- Engines
- Power Packs
- Emission Kits





# UNDERCARRIAGE

From rebuilt frames to completely ready to install truck assemblies and new or rebuilt wheel sets and traction motors quality starts from the bottom up.

- Traction Motors
- Wheel Sets
- Trucks





# ELECTRICAL

Innovative solutions improve the efficiency and operations performance of your locomotive equipment. And, custom designed cabinets and configurations allow new life to any locomotive regardless of model or age.

- Rewires
- Electrical Cabinets
- Power Electronics





# TECHNOLOGY

NRE provides innovative and high quality solutions for the railway industry. Our railway control products are used in a broad range of applications in industrial, and traction markets. NRE's strategy is to exploit the intrinsic strengths of its core business, and develop opportunities in new markets with new applications.

- NFORCE
- NCOMPASS
- NGAUGE
- NLIGHT
- NLIMIT
- NRE-ACTUATOR
- Independent Axle Control

**NFORCE**  
ELECTRONIC CONTROL MODULE

Made in Canada / 471-0601-000



# STRUCTURES

NRE designs and manufactures fabricated structures for locomotive, rail and other industrial market needs.

- Cabs
- Fuel Tanks
- Hatches
- Load Boxes
- Long Hoods
- Noses
- Underframes







# PARTS



NRE OVERVIEW

- Air Brakes
- Batteries
- Bulbs
- Cab Components
- Compressors
- Electrical
- Electrical Rotating
- Engine Parts
- Fasteners
- Filters
- Gaskets
- Heat Exchangers
- Hoses
- Shim/Spacers
- Traction Motor Parts
- Truck Parts
- Wheels
- Miscellaneous


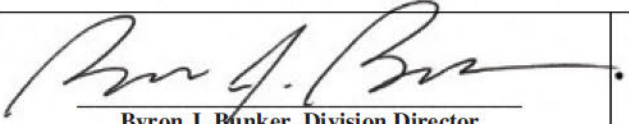




# OUR STRENGTHS


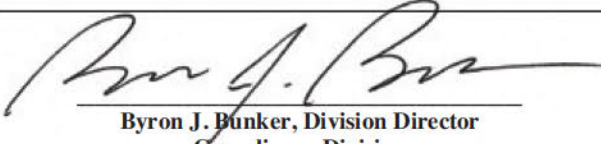
- Vertically Integrated
- Multiple Facilities/Large Capacity/Quick Turnaround
- Plants on Main Lines for Easy Access In/Out
- Core Pool/Large Inventory
- Global Reach
- Long-Term Market Presence
- A to Z Scope of Supply – Capabilities
- Ability to Integrate Packages & Solutions into Various Locomotive Platforms
- Flexible/Agile – New or Rebuild Offerings
- In-House Design Capability
- Multiple Engine Options
- Emissions Solutions (Tier 0 to Tier IV)
- Applications Engineering Strength
- Flexible Work Spaces
- Highly Skilled Resources to Draw From
- Quote to Delivery – Ship from Stock
- Made in the U.S.

# EPA CERTIFIED TIER 0+ TURBO

	<p align="center"><b>UNITED STATES ENVIRONMENTAL PROTECTION AGENCY</b>  <b>2018 MODEL YEAR</b>  <b>CERTIFICATE OF CONFORMITY</b>  <b>WITH THE CLEAN AIR ACT</b></p>	<p align="center"><b>OFFICE OF TRANSPORTATION  AND AIR QUALITY</b>  <b>ANN ARBOR, MICHIGAN 48105</b></p>	
<p>Certificate Issued To: National Railway Equipment Co.  (U.S. Manufacturer or Importer)    Certificate Number: JNREK0645ENP-002</p>	<p><u>Effective Date:</u>  01/09/2018    <u>Expiration Date:</u>  12/31/2018</p>	 Byron J. Bunker, Division Director Compliance Division	<p><u>Issue Date:</u>  01/09/2018    <u>Revision Date:</u>  N/A</p>
<p><b>Engine Family Name (Remanufacturing Kit): JNREK0645ENP</b>  The rebuild kit includes: NRE Injectors, NRE Aftercoolers, Installation instructions, Injector Labels, NRE Power Assemblies, Locomotive Emission Label, Engine Emission Label, Registration Card, Maintenance Instructions, NRE Turbocharger</p>		<p><b>Vehicle/Engine Category:</b> Locomotive  <b>Locomotive Model Years:</b> 1973 to 1992  <b>Models Covered:</b> SD45-2, SD50S, SD40X, F40PHM-2, F40C, F40PH-2, SD40-2F, GP40-2L, GP38-2, SD40-2, F40PH-3, GP40X, SD45T-2, GP40P-2, F40PH-2M, GP50, SD50, GP40T-2, F40PH-2C, SD40-2SS, SD50F, SDP40F, GP40-2, F40PH</p>	
<p>Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR 1033, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the remanufacturing kit which has been found to conform to applicable requirements and which may be utilized with only the following locomotive engines, by engine family, more fully described in the documentation required by 40 CFR 1033 and produced in the stated model year.</p> <p>Parties who install this remanufacturing kit must also ensure that the base engine contains the following parts, more fully described in the Application for Certification for this kit:  Governor, Lube Oil Pump, Water Pumps, AESS, Scavenging Pump</p> <p>This certificate of conformity is conditional upon compliance of said manufacturer with the provisions of 40 CFR Part 1033, Subpart H. Failure to comply with these provisions may render this certificate void <i>ab initio</i>.</p> <p>This certificate of conformity covers only those locomotive remanufacturing kits which conform in all material respects to the design specifications that applied to those kits more fully described in the Application for Certification required by 40 CFR 1033 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR 1033.</p> <p>It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068.20 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR 1068. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void <i>ab initio</i> for other reasons specified in 40 CFR 1068.</p>			



# EUI TIER 1+ THRU TIER 3 CERTIFICATE

	<p align="center"><b>UNITED STATES ENVIRONMENTAL PROTECTION AGENCY</b>  <b>2018 MODEL YEAR</b>  <b>CERTIFICATE OF CONFORMITY</b>  <b>WITH THE CLEAN AIR ACT</b></p>	<p align="center"><b>OFFICE OF TRANSPORTATION AND AIR QUALITY</b>  <b>ANN ARBOR, MICHIGAN 48105</b></p>	
<p>Certificate Issued To: National Railway Equipment Co. (U.S. Manufacturer or Importer)           Certificate Number: JNREK0710EU3-006</p>	<p><u>Effective Date:</u> 02/14/2018   <u>Expiration Date:</u> 12/31/2018</p>	 Byron J. Bunker, Division Director Compliance Division	<p><u>Issue Date:</u> 02/14/2018   <u>Revision Date:</u> N/A</p>
<p><b>Engine Family Name (Remanufacturing Kit):</b> JNREK0710EU3  <b>The rebuild kit includes:</b> Registration Card, NRE Power Assemblies, Maintenance Instructions, Installation Instructions, Injector Labels, Locomotive Emission Label, Engine Emission Label, NRE EMS Kit, NRE Aftercoolers</p>		<p><b>Vehicle/Engine Category:</b> Locomotive  <b>Locomotive Model Years:</b> 1973 to 2012  <b>Models Covered:</b> SD60I, GP60M, SD70IM-2, GP60B, GP59, SD60F, SD60MAC, SD70, SD70M, GP59X, SD60M, F59PH, GP60, SD60</p>	
<p>Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR 1033, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the remanufacturing kit which has been found to conform to applicable requirements and which may be utilized with only the following locomotive engines, by engine family, more fully described in the documentation required by 40 CFR 1033 and produced in the stated model year.</p> <p>Parties who install this remanufacturing kit must also ensure that the base engine contains the following parts, more fully described in the Application for Certification for this kit:          AESS, Scavenging Pump, Water Pumps, Lube Oil Pumps, Turbocharger</p> <p>This certificate of conformity is conditional upon compliance of said manufacturer with the provisions of 40 CFR Part 1033, Subpart H. Failure to comply with these provisions may render this certificate void <i>ab initio</i>.</p> <p>This certificate of conformity covers only those locomotive remanufacturing kits which conform in all material respects to the design specifications that applied to those kits more fully described in the Application for Certification required by 40 CFR 1033 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR 1033.</p> <p>It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068.20 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR 1068. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void <i>ab initio</i> for other reasons specified in 40 CFR 1068.</p>			

# NRE® TIER 0+ 710 MUI



## ORIGINAL LOCOMOTIVE EMISSION CONTROL INFORMATION

THIS LOCOMOTIVE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO TIER 0+ LINE HAUL LOCOMOTIVES.

### ENGINE FAMILY: ENREK0710MUI

SERIAL NO: XX-XX-XXXX DATE OF MANUFACTURE: 01 / 2014  
M.L NO: 1791 MODEL NO: 16-710G3

LOCOMOTIVE USEFUL LIFE PER 40 CFR PART 1033 IS 10 YEARS OR 750,000 MILES.  
THIS ENGINE FAMILY HAS BEEN CERTIFIED AS CONFORMING TO EPA TIER 0+ EMISSION STANDARDS.

THIS LOCOMOTIVE MUST COMPLY WITH THESE EMISSION LEVELS EACH TIME THAT IT IS  
REMANUFACTURED, EXCEPT AS ALLOWED BY 40 CFR 1033.750.

THIS LOCOMOTIVE MUST BE MAINTAINED PER THE PROCEDURE AND MATERIALS DOCUMENTED IN THE OPERATORS,  
OWNERS, SERVICE MANUAL, AND THE EMISSIONS-RELATED MAINTENANCE & ASSEMBLY INSTRUCTIONS.  
ALL WARRANTIES AND GUARANTEES ARE DEFINED IN THE OWNERS CONTRACT.



## ENGINE EMISSION CONTROL INFORMATION

THIS LOCOMOTIVE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO TIER 0+ LINE HAUL LOCOMOTIVES.

### ENGINE FAMILY: ENREK0710MUI

SERIAL NO: XX-XX-XXXX DATE OF MANUFACTURE: 01 / 2014  
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ALL WARRANTIES AND GUARANTEES ARE DEFINED IN THE OWNERS CONTRACT.





# NRE® TIER 0+ TURBO DECALS

**NRE**  
MOVING FORWARD

Original Locomotive Emission Control Information

THIS LOCOMOTIVE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO TIER 0+ LINE HAUL LOCOMOTIVES.

**ENGINE FAMILY: CNREK0645ENP**

SERIAL NO: XX-XX-XXXX DATE OF MANUFACTURE: 01 / 2012  
Maint. Inst. NO: 1793 MODEL NO: 16-645E3B

LOCOMOTIVE USEFUL LIFE PER 40 CFR PART 1033 IS 10 YEARS OR 750,000 MILES.  
THIS ENGINE FAMILY HAS BEEN CERTIFIED AS CONFORMING TO EPA TIER 0+ EMISSION STANDARDS.  
THIS LOCOMOTIVE MUST COMPLY WITH THESE EMISSION LEVELS EACH TIME THAT IT IS  
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THIS LOCOMOTIVE MUST BE MAINTAINED PER THE PROCEDURE AND MATERIALS DOCUMENTED IN THE OPERATORS,  
OWNERS, SERVICE MANUAL, AND THE EMISSIONS-RELATED MAINTENANCE & ASSEMBLY INSTRUCTIONS.  
ALL WARRANTIES AND GUARANTEES ARE DEFINED IN THE OWNERS CONTRACT.

**NRE**  
MOVING FORWARD

Engine Emission Control Information

THIS LOCOMOTIVE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO TIER 0+ LINE HAUL LOCOMOTIVES.

**ENGINE FAMILY: CNREK0645ENP**

SERIAL NO: XX-XX-XXXX DATE OF MANUFACTURE: 01 / 2012  
Maint. Inst. NO: 1793 MODEL NO: 16-645E3B

LOCOMOTIVE USEFUL LIFE PER 40 CFR PART 1033 IS 10 YEARS OR 750,000 MILES.  
THIS ENGINE FAMILY HAS BEEN CERTIFIED AS CONFORMING TO EPA TIER 0+ EMISSION STANDARDS.  
THIS LOCOMOTIVE MUST COMPLY WITH THESE EMISSION LEVELS EACH TIME THAT IT IS  
REMANUFACTURED, EXCEPT AS ALLOWED BY 40 CFR 1033.750.

THIS ENGINE MUST BE MAINTAINED PER THE PROCEDURE AND MATERIALS DOCUMENTED IN THE OPERATORS,  
OWNERS, SERVICE MANUAL, AND THE EMISSIONS-RELATED MAINTENANCE & ASSEMBLY INSTRUCTIONS.  
ALL WARRANTIES AND GUARANTEES ARE DEFINED IN THE OWNERS CONTRACT.



# NRE<sup>®</sup> TIER 0+ BLOWER DECALS



## ORIGINAL LOCOMOTIVE EMISSION CONTROL INFORMATION

THIS LOCOMOTIVE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO TIER 0+ SWITCH LOCOMOTIVES.

### ENGINE FAMILY: ENREK0645ERT

SERIAL NO: XX-XX-XXXX DATE OF MANUFACTURE: 01 / 2014  
M.I. NO: 1794 MODEL NO: 16-645E

LOCOMOTIVE USEFUL LIFE PER 40 CFR PART 1033 IS 10 YEARS OR 750,000 MILES.  
THIS ENGINE FAMILY HAS BEEN CERTIFIED AS CONFORMING TO EPA TIER 0+ EMISSION STANDARDS.

THIS LOCOMOTIVE MUST COMPLY WITH THESE EMISSION LEVELS EACH TIME THAT IT IS  
REMANUFACTURED, EXCEPT AS ALLOWED BY 40 CFR 1033.750.

THIS LOCOMOTIVE MUST BE MAINTAINED PER THE PROCEDURE AND MATERIALS DOCUMENTED IN THE OPERATORS,  
OWNERS, SERVICE MANUAL, AND THE EMISSIONS-RELATED MAINTENANCE & ASSEMBLY INSTRUCTIONS.  
ALL WARRANTIES AND GUARANTEES ARE DEFINED IN THE OWNERS CONTRACT.



## ENGINE EMISSION CONTROL INFORMATION

THIS LOCOMOTIVE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO TIER 0+ SWITCH LOCOMOTIVES.

### ENGINE FAMILY: ENREK0645ERT

SERIAL NO: XX-XX-XXXX DATE OF MANUFACTURE: 01 / 2014  
M.I. NO: 1794 MODEL NO: 16-645E

LOCOMOTIVE USEFUL LIFE PER 40 CFR PART 1033 IS 10 YEARS OR 750,000 MILES.  
THIS ENGINE FAMILY HAS BEEN CERTIFIED AS CONFORMING TO EPA TIER 0+ EMISSION STANDARDS.

THIS LOCOMOTIVE MUST COMPLY WITH THESE EMISSION LEVELS EACH TIME THAT IT IS  
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THIS ENGINE MUST BE MAINTAINED PER THE PROCEDURE AND MATERIALS DOCUMENTED IN THE OPERATORS,  
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ALL WARRANTIES AND GUARANTEES ARE DEFINED IN THE OWNERS CONTRACT.



# AAR CERTIFIED MT. VERNON

## ASSOCIATION OF AMERICAN RAILROADS QUALITY ASSURANCE PROGRAM CERTIFICATION



THIS CONFIRMS THAT

**NRE Mt. Vernon**

HAS MET THE REQUIREMENTS OF THE ASSOCIATION OF AMERICAN RAILROADS  
QUALITY ASSURANCE PROGRAM AS SPECIFIED IN M-1003

**CERTIFICATE NUMBER:** NREM

**LOCATION:** Mt. Vernon, IL

**PRODUCT/SERVICE:** A21 - Manufacturer of Locomotives, B32 - Locomotive Air Brake Repair Facility, B41A - Manufacturer of Locomotive Power Assemblies, B41B - Reconditioner of Locomotive Power Assemblies, B51B - Reconditioner of Locomotive Water Pumps, B53B - Reconditioner of Locomotive Oil Pumps, B59A - Manufacturer of Locomotive Air Compressors, B61B - Reconditioner of Locomotive Engines

**CERTIFICATION DATE:** 4/23/2016

**EXPIRATION DATE:** 4/23/2019

**APPROVED:**

*Nicholas Fimple*  
(Executive Director Rules and Standards)

**APPROVED:**

*Gregory A. Cook*  
(Chairman, Quality Assurance Committee)



# AAR CERTIFIED PADUCAH

## ASSOCIATION OF AMERICAN RAILROADS QUALITY ASSURANCE PROGRAM CERTIFICATION



THIS CONFIRMS THAT

### **NRE Paducah**

HAS MET THE REQUIREMENTS OF THE ASSOCIATION OF AMERICAN RAILROADS  
QUALITY ASSURANCE PROGRAM AS SPECIFIED IN M-1003

**CERTIFICATE NUMBER:** QA-VMV

**LOCATION:** Paducah, KY

**PRODUCT/SERVICE:**

A21 - Manufacturer of Locomotives, B33-4 - Wheel and axle shop-locomotive, B37a - Manufacturer of Locomotive Traction Motors, B37b - Reconditioner of Locomotive Traction Motors, B47b - Reconditioner of Locomotive Governors, B49b - Reconditioner of Locomotive Fuel Pumps, B51b - Reconditioner of Locomotive Water Pumps, B53b - Reconditioner of Locomotive Oil pumps, B57b - Reconditioner of Locomotive Main Generators/Alternators, B59b - Reconditioner of Locomotive Air Compressors, B61a - Manufacturer of Locomotive Engines, B61b - Reconditioner of Locomotive Engines, B63b - Reconditioner of Locomotive Cooling/Radiator Fans, B65b - Reconditioner of Locomotive Grid Blower Motors, B67b - Reconditioner of Locomotive Inertial/Equipment Blower Motors, B69 - Locomotive Traction Motor/Wheel Combo Assembly, VOL Reconditioner of Locomotives and Trucks

**CERTIFICATION DATE:** 5/18/2015

**EXPIRATION DATE:** 5/18/2018

**APPROVED:**

*Nicholas Fingle*  
(Executive Director Rules and Standards)

**APPROVED:**

*Thomas W. O'Connor*  
(Chairman, Quality Assurance Committee)



# AAR CERTIFIED SILVIS

## ASSOCIATION OF AMERICAN RAILROADS QUALITY ASSURANCE PROGRAM CERTIFICATION



THIS CONFIRMS THAT

**NRE - Silvis**

HAS MET THE REQUIREMENTS OF THE ASSOCIATION OF AMERICAN RAILROADS  
QUALITY ASSURANCE PROGRAM AS SPECIFIED IN M-1003

**CERTIFICATE NUMBER:** NREC

**LOCATION:** Silvis, IL

**PRODUCT/SERVICE:**

A21 - Manufacturer of Locomotives, B37B - Reconditioner of Locomotive Traction Motors, B41B - Reconditioner of Locomotive Power Assemblies, B43B - Reconditioner of Locomotive Cylinder Heads, B49B - Reconditioner of Locomotive Fuel Pumps, B51B - Reconditioner of Locomotive Water Pumps, B53B - Reconditioner of Locomotive Oil Pumps, B57B - Reconditioner of Locomotive Main Generators/Alternators, B59B - Reconditioner of Locomotive Air Compressors, B61B - Reconditioner of Locomotive Engines, VOL - Reconditioner of Locomotives

**CERTIFICATION DATE:** 3/10/2017

**EXPIRATION DATE:** 3/10/2020

**APPROVED:**

*Nicholas Fimple*  
(Executive Director Rules and Standards)

**APPROVED:**

*Joseph A. Cook*  
(Chairman, Quality Assurance Committee)

# AAR CERTIFIED MILWAUKEE

## ASSOCIATION OF AMERICAN RAILROADS QUALITY ASSURANCE PROGRAM CERTIFICATION



THIS CONFIRMS THAT

### National Railway Equipment Company

HAS MET THE REQUIREMENTS OF THE ASSOCIATION OF AMERICAN RAILROADS  
QUALITY ASSURANCE PROGRAM AS SPECIFIED IN M-1003

**CERTIFICATE NUMBER:** NRC

**LOCATION:** Milwaukee, WI

**PRODUCT/SERVICE:** B33-1 - Wheel mounting shop-freight car (complete with wheel press & boring mill), B33-3A - M-967 Axle repair shop-journal, seal wear ring groove and water etch repairs-freight car, B33-4 - Wheel and axle shop-locomotive, B33-5 - Wheel and axle lathe(s)-freight car, B33-8A - Wheel and axle shop-Amtrak passenger car, B33-9 - Roller bearing mounting-freight and Amtrak passenger car

**CERTIFICATION DATE:** 8/3/2017

**EXPIRATION DATE:** 8/3/2020

**APPROVED:**

*Michael Fimple*  
(Executive Director Rules and Standards)

**APPROVED:**

*Jerry A. Cook*  
(Chairman, Quality Assurance Committee)



# ISO CERTIFIED MT. VERNON



## CERTIFICATE OF REGISTRATION

This is to certify that

**National Railway Equipment Co.**

1100 Shawnee Street, Mt. Vernon, Illinois 62864 USA

operates a

**Quality Management System**

which complies with the requirements of

**ISO 9001:2015**

for the following scope of certification

**Design and manufacture of new and remanufactured locomotives including servicing, leasing, salvage operations, field services and engineering services.**

Certificate No.:	CERT-0103697	Original Certification Date:	March 29, 2018
File No.:	1690724	Certification Effective Date:	March 29, 2018
Issue Date:	April 2, 2018	Certificate Expiry Date:	March 28, 2021



Nicole Grantham  
General Manager SAI Global Certification Services



ISO 9001

THANK  
YOU

**Steve Sonni**  
**S.SONNI@NRE.COM**

