



Document # FS-19-0110
Delivery via email

Patrick R. Schwab, Contracting Officer Representative
U.S. Department of Energy
Office of Nuclear Energy
1000 Independence Ave., SW
Washington, D.C. 20585

April 24, 2019

Subject: Delivery of Atlas and Buffer Railcars
Reference: Atlas HLRM Railcar Project, Contract DE-NE-0008390

Dear Mr. Schwab;

The Atlas and buffer railcars completed delivery to the AAR Transportation Technology Center (TTC) in Pueblo, CO on April 15, 2019.

Subsequently, Transportation Technology Center, Inc. (TTCI) performed incoming inspection reports on each railcar which are enclosed as Attachment A. Note that the TTCI Inbound Car Inspection Form for Buffer Railcar IDOX 020002 (page 3) indicates that a wheel keeper is missing. Although it is not understood why this is missing, the check and replacement of this commercially available strap is a routine railyard maintenance item which is replaced by the discovering railyard (in this case TTCI) during the normal operations of the railcar.

Repairs to the safety monitoring system (SMS) by Lat-Lon were completed with the systems functional on April 22, 2019. This is evidenced by the SMS Health Reports from Kasgro Rail enclosed as Attachment B.

Finally, a Certificate of Conformance (CoC) has been completed and accepted by Orano Federal Services (FS) for each railcar. These are enclosed as Attachment C and will also be included in the Phase 3 Report's appendices of inspection documents (Appendix B.1.7 for Atlas railcar and Appendix F.1.5 for buffer railcars).

This submission completes the delivery of the railcars, CLIN 3, Event 7.

For questions and comments, contact me at 704-805-2994 or at mark.denton@areva.com.

Best Regards,

A handwritten signature in black ink that reads 'Mark A. Denton'.

Mark A. Denton
Sr. Project Manager

Copies (delivery via email):
Trevor Bluth, DOE
Todd Heavner, AFS
Don Hillstrom, AFS Federal Way
Slade Klein, AFS Federal Way
Michael Masterson, AFS
William Reich, DOE



Atlas Railcar IDOX 01001

INBOUND CAR INSPECTION FORM

| CAR NUMBER | LOCATION | CLASS | INSP. DATE | BUILD DATE |
|------------|------------|-------|------------|------------|
| IDOX 01001 | Appendix A | | 2-29-19 | 1-19 |

L. Stewart

| CONDITION | COMMENTS |
|---|---|
| SILL STEPS, GRAB IRONS, HAND RAILS, LADDERS | <i>L. Stewart</i> <i>[Signature]</i> |
| OK | |
| COUPLERS, KNUCKLES, LOCK LIFTERS | |
| OK | |
| STRIKER CASTINGS | |
| OK | |
| DRAFT GEARS, YOKES, FOLLOWER BLOCKS | |
| OK | |
| CENTER SILL | |
| OK | |
| SIDESILL & DECKING | |
| OK | |
| SIDE FRAMES, BOLSTER, LUGS, COLUMN GUIDES | |
| OK | |
| SPRINGS & FRICTION CASTINGS | |
| OK | |
| HAND BRAKE | |
| OK | |
| BRAKE BEAMS & SHOES | |
| OK | |
| BEARING ADAPTERS | |
| OK | |
| AIR TEST | |
| OK | |
| SIDE BEARINGS | L1 5/16 L2 5/16 R1 5/16 R2 5/16 |
| WHEELS (LEFT) FLANGE | L1 25% L2 25% L3 26% L4 25% |
| WHEELS (LEFT) RIM | L1 24% L2 25% L3 25% L4 26% |
| WHEEL (LEFT) HEIGHT | L1 --- L2 --- L3 --- L4 --- |
| WHEELS (RIGHT) FLANGE | R1 24% R2 25% R3 24% R4 25% |
| WHEELS (RIGHT) RIM | R1 24% R2 25% R3 25% R4 26% |
| WHEEL (RIGHT) HEIGHT | R1 --- R2 --- R3 --- R4 --- |

Rim

Flange

Side Bearing

| | |
|---------|---------|
| L5 26% | R5 26% |
| L6 26% | R6 26% |
| L7 26% | R7 26% |
| L8 25% | R8 25% |
| L9 25% | R9 25% |
| L10 25% | R10 25% |

| | |
|---------|---------|
| L5 26% | R5 26% |
| L6 25% | R6 25% |
| L7 26% | R7 25% |
| L8 25% | R8 26% |
| L9 26% | R9 26% |
| L10 25% | R10 25% |

| | |
|----------|----------|
| L5 5/16 | R5 5/16 |
| L6 5/16 | R6 5/16 |
| L7 5/16 | R7 5/16 |
| L8 5/16 | R8 5/16 |
| L9 5/16 | R9 5/16 |
| L10 5/16 | R10 5/16 |

Rim

Flange

SBearing

| | |
|---------|---------|
| L11 26% | R11 25% |
| L12 26% | R12 25% |

| | |
|---------|---------|
| L11 26% | R11 25% |
| L12 26% | R12 26% |

| | |
|----------|----------|
| L11 5/16 | R11 5/16 |
| L12 5/16 | R12 5/16 |

Buffer Railcar IDIX 02001

INBOUND CAR INSPECTION FORM

| CAR NUMBER | LOCATION | CLASS | INSP. DATE | BUILD DATE |
|------------|----------|-------|------------|------------|
| 100X 02001 | Aurora | | 3-29-19 | 9/18 |

| CONDITION | COMMENTS | | | | | | | | | | | | |
|---|---|------|------|------|-----------|----|--|-----------|------|------|------|------|-----------|
| SILL STEPS, GRAB IRONS, HAND RAILS, LADDERS | OK | | | | | | | | | | | | |
| COUPLERS, KNUCKLES, LOCK LIFTERS | OK | | | | | | | | | | | | |
| STRIKER CASTINGS | OK | | | | | | | | | | | | |
| DRAFT GEARS, YOKES, FOLLOWER BLOCKS | OK | | | | | | | | | | | | |
| CENTER SILL | OK | | | | | | | | | | | | |
| SIDESILL & DECKING | OK | | | | | | | | | | | | |
| SIDE FRAMES, BOLSTER, LUGS, COLUMN GUIDES | OK | | | | | | | | | | | | |
| SPRINGS & FRICTION CASTINGS | OK | | | | | | | | | | | | |
| HAND BRAKE | OK | | | | | | | | | | | | |
| BRAKE BEAMS & SHOES | OK | | | | | | | | | | | | |
| BEARING ADAPTERS | OK | | | | | | | | | | | | |
| AIR TEST | -1A | | | | | | | | | | | | |
| SIDE BEARINGS | <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th>L1</th> <th>L2</th> <th>R1</th> <th>R2</th> <th></th> </tr> </thead> <tbody> <tr> <td>5/16 5/16</td> <td>5/16</td> <td>5/16</td> <td>5/16</td> <td>5/16</td> <td>5/16 5/16</td> </tr> </tbody> </table> | | L1 | L2 | R1 | R2 | | 5/16 5/16 | 5/16 | 5/16 | 5/16 | 5/16 | 5/16 5/16 |
| | L1 | L2 | R1 | R2 | | | | | | | | | |
| 5/16 5/16 | 5/16 | 5/16 | 5/16 | 5/16 | 5/16 5/16 | | | | | | | | |
| WHEELS (LEFT) FLANGE | L1 0/0 L2 0/0 L3 0/0 L4 0/0 | | | | | | | | | | | | |
| WHEELS (LEFT) RIM | L1 24 L2 26 L3 26 L4 26 | | | | | | | | | | | | |
| WHEEL (LEFT) HEIGHT | L1 — L2 — L3 — L4 — | | | | | | | | | | | | |
| WHEELS (RIGHT) FLANGE | R1 0/0 R2 0/0 R3 0/0 R4 0/0 | | | | | | | | | | | | |
| WHEELS (RIGHT) RIM | R1 24 R2 24 R3 24 R4 24 | | | | | | | | | | | | |
| WHEEL (RIGHT) HEIGHT | R1 — R2 — R3 — R4 — | | | | | | | | | | | | |

COMMENTS

INSPECTORS NAME (PRINT) Stewart

INSPECTORS SIGNATURE 

INBOUND CAR INSPECTION FORM

| CAR NUMBER | LOCATION | CLASS | INSP. DATE | BUILD DATE |
|------------|----------|-------|------------|------------|
| 700X23000 | Aurora | | 4-22-19 | 9-18 |

| CONDITION | COMMENTS |
|---|---|
| SILL STEPS, GRAB IRONS, HAND RAILS, LADDERS | OK |
| COUPLERS, KNUCKLES, LOCK LIFTERS | OK |
| STRIKER CASTINGS | OK |
| DRAFT GEARS, YOKES, FOLLOWER BLOCKS | OK |
| CENTER SILL | OK |
| SIDESILL & DECKING | OK |
| SIDE FRAMES, BOLSTER, LUGS, COLUMN GUIDES | OK |
| SPRINGS & FRICTION CASTINGS | OK |
| HAND BRAKE | OK |
| BRAKE BEAMS & SHOES | OK |
| BEARING ADAPTERS | OK |
| AIR TEST | NO |
| SIDE BEARINGS | L1 5 5/16 5 5/16 L2 2 5/16 2 5/16 R1 5 5/16 5 5/16 R2 5 5/16 5 5/16 |
| WHEELS (LEFT) FLANGE | L1 0/0 L2 0/0 L3 0/0 L4 0/0 |
| WHEELS (LEFT) RIM | L1 24 L2 26 L3 27 L4 27 |
| WHEEL (LEFT) HEIGHT | L1 — L2 — L3 — L4 — |
| WHEELS (RIGHT) FLANGE | R1 0/0 R2 0/0 R3 0/0 R4 0/0 |
| WHEELS (RIGHT) RIM | R1 26 R2 26 R3 26 R4 26 |
| WHEEL (RIGHT) HEIGHT | R1 — R2 — R3 — R4 — |

COMMENTS

L wheel keeper missing

INSPECTORS NAME (PRINT)

L Stewart

INSPECTORS SIGNATURE



Attachment B

FS-19-0110

Lat-Lon SMS Health Reports for Atlas and Buffer Railcars

| Health Reports | MDT | | | | | | | | | |
|----------------|------------------------|--------------|----------|----------------------------|-------|-------------|----------|---------|--------|-------|
| UNIT NAME | DATE/TIME | MESSAGE TYPE | GEOFENCE | GEOGRAPHY | SPEED | ACCUM MILES | FIRMWARE | UP_TIME | BATT_V | CAP_V |
| IDOX 10001 A | 04/18/2019 07:00:00 PM | Timed | | 13.09 miles N of Boone, CO | 1 | 3838.48 | 32061 | 22771 | 2.5 | 2.5 |
| IDOX 10001 B | 04/22/2019 09:30:00 AM | Timed | | 13.06 miles N of Boone, CO | 0 | 1390.12 | 32061 | 1077 | 3.2 | 3.2 |
| IDOX 20001 | 04/19/2019 12:30:00 AM | Timed | | 13.48 miles N of Boone, CO | 0 | 1279.61 | 32061 | 35905 | 2.3 | 2.3 |
| IDOX 20002 | 04/22/2019 11:03:00 AM | Timed | | 13.09 miles N of Boone, CO | 0 | 1279.71 | 32061 | 15 | 3.2 | 3.2 |

Kasgro Rail Corporation
121 Rundle Rd. · New Castle, PA 16102
724-658-9061 · 724-658-7639 Fax · www.kasgro.com



KASGRO

CERTIFICATE OF ORDER CONFORMANCE

Date:04/22/2019

SUPPLIER:

KasgroRail Corp
121 Rundle Rd
New Castle PA 16102

Rail Car Number: IDOX 010001

WE HEREBY CERTIFY THAT WE HAVE COMPLIED WITH AAR REQUIREMENTS AND ALL THE REQUIREMENTS OF YOUR PURCHASE ORDER NO. 15C3011916



Mark Zeigler

Director of Quality Control

TITLE

NOTE: The Recording of False, Fictitious or Fraudulent Statements or Entries on the Document may be Punishable as Felony Under Federal Statutes.

Kasgro Rail Corporation
121 Rundle Rd. · New Castle, PA 16102
724-658-9061 · 724-658-7639 Fax · www.kasgro.com



KASGRO

CERTIFICATE OF ORDER CONFORMANCE

Date:04/22/2019

SUPPLIER:

KasgroRail Corp
121 Rundle Rd
New Castle PA 16102

Rail Car Number: IDOX 020001

WE HEREBY CERTIFY THAT WE HAVE COMPLIED WITH AAR REQUIREMENTS AND ALL THE REQUIREMENTS OF YOUR PURCHASE ORDER NO. 15C3011916



Mark Zeigler

Director of Quality Control

TITLE

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KASGRO

CERTIFICATE OF ORDER CONFORMANCE

Date:04/22/2019

SUPPLIER:

KasgroRail Corp
121 Rundle Rd
New Castle PA 16102

Rail Car Number: IDOX 020002

WE HEREBY CERTIFY THAT WE HAVE COMPLIED WITH AAR REQUIREMENTS AND ALL THE REQUIREMENTS OF YOUR PURCHASE ORDER NO. 15C3011916



Mark Zeigler

Director of Quality Control

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