GBW Railcar Services, LLC

RAILCAR CLEANING CERTIFICATE

Facility Name/Location: MRN - Neodesha

Form	C-033
Original Date	8.20.11
Revision Level	E
Revision Date	4.17.15
Revised by	Moore
Approved by:	Hirschey
	Page 1 of 1

Section A

This is to certify that railcar # ACFX 73711 was cleaned using GBW's cleaning systems and procedures.

Date Car Cleaned: 10-8-15 Last Contents: PHOSPHORIC ACID

After cleaning, the railcar was inspected, using the methods checked below to determine that the car is clean, by a qualified inspector or manager.

1. Odor: ☐ Light ☐ Heavy ☒ None Comments: _____
2. The oxygen level was tested at 20.9 % by volume.
3. Flammability test with flammability meter: ☐ No ☒ Yes, Reading of 0 % of LEL
4. Interior atmosphere tested for H2S: ☐ No ☒ Yes, Reading of: 0 PPM
5. Are there Regulatory Exposure Levels associated with last contents: ☒ No ☐ Yes, Indicate test results below:
   a. Chemical Tested for: _____
   b. Part number of CGD tube used: _____ Measurement range of tube: _____ Manufacturer of tube: _____
   c. Interior Test reading: _____ PPM Versus Exposure Level of: _____ PPM ☐ STEL ☐ PEL ☐ TLV ☐ TWA
   d. PID meter used in lieu of CGD tube: ☐ Yes ☐ No
6. Cleanliness Verification Inspections: Tank Shell: ☒ Yes ☐ No; Outlet Cap: ☒ Yes ☐ No ☐ N/A; Washout Cavity: ☒ Yes ☐ No ☐ N/A; Eduction Pipe: ☒ Yes ☐ No ☐ N/A; Steam Jacketed Eduction Pipe: ☐ Yes ☐ No ☒ N/A; All Valve Cavities: ☒ Yes ☐ No ☐ N/A
7. Haz Mat Commodity stencils covered: ☐ Yes ☐ No ☐ N/A Placards removed: ☒ Yes ☐ No ☐ N/A

SIGNED Todd VanB DATE 10-8-15

PRINTED NAME TODD VANBUREN TITLE CLEANER

SECTION B *(ITEMS 6 THROUGH 9 BELOW WERE PERFORMED BY SPECIAL CUSTOMER REQUEST)* ☒ N/A

6. The removal of last contents residuals were by: ☐ N/A
   ☐ Water blast ☐ Near white blast ☐ Brush blast
   ☐ White blast ☐ Commercial blast ☐ Interior lining removed
7. The railcar was shipped with a _____ PSIG nitrogen pad and tagged with a yellow nitrogen caution tag per GBWS-001.0. ☐ N/A
8. The moisture was tested at _____ PPM. ☒ N/A
9. The Dew Point is _____ º at _____ PSIG. ☒ N/A

NOTE: Railcar received condition may vary; due to the possibility of shell or rust saturation by the last contents, odor may return after the car has been closed for an extended period of time, and condensation may occur due to temperature changes when the railcar is not protected with a nitrogen pad. GBW accepts no liability for purity or condition of the next product loaded into this railcar.

SIGNED Benjamin R Murphy DATE 10-8-15

PRINTED NAME Benjamin R Murphy TITLE Supervisor

LOG OF REVISIONS

REVISION LEVEL	REV. DATE	REV. SECTION	CHANGE MADE
A	9.8.14	ALL	Reformatted to GBW requirements
B	1.21.15	Line A.5 & 7	Added b. and c. to line 5 and N/A boxes on line 7
D	1.29.15	Section B	Added N/A boxes
E	4.17.15	Line A.7	Added itemized visual inspection check offs for cleanliness

Tank Car Inspection Check List

Car Number: ACFX 73711	Shop: GBW
Location: Neodesha, KS	Date: 4-26-16

The following inspection is required on all tank cars prior to shipping.

1. If tank is non-insulated visually inspect tank shell for the following defects.
   (Check each to verify No Defects Found)
   Defects in Weld ☑ / Cracks ☐ / Dents ☐ / Corrosion Damage ☐ / Abrasion Damage ☐ N/A
2. Tank Fittings Secure (No Evidence of Leaking) ☑
   Check Bottom Valve with Cap Removed ☑
3. All Tank Closures Secure "Tool Tight" (Cannot be loosened by hand)
   No loose or missing securement ☑
4. All Caps / Plugs / Chains in Place & Secure ☑
5. Protective Housing Covers Secure ☐
6. No Evidence of Corrosion to Pressure Relief Valve ☑
7. If Insulated - Jacket / Insulation Is Secure ☑
8. Car is Equipped with Double Shelf Couplers ☑
9. All Required Stenciling in place and Legible ☑
10. All Periodic Tests (Tank/Safety Valve/ ABT) In Date ☑
11. Stub Sill Inspection Completed & Stenciled ☐
12. Car is equipped with AEI Tags ☑

Comments: Car Reporting Marks changed to UTLX 648015

☐ It was not possible to inspect all items listed because the repair was made during tank loading or unloading process. Inspection was limited to those items indicated above.

Inspector Name:	Signature:
Keith A Robinson	
(Print)	Date: 4-26-16

QA Document Checklist for UTC Owned Tanks

Car Initial & Number: ACFX 73711 UTLX 648015 Shop: GBW Completion Date: 4-26-16

Line	Report Description	Report ID	Report Required Y / N	Report Completed Y / N /NA	Notes
1	Tank Qualification	REQ-REP	N	NA	
2	Jacketed Tank Car Insulation Inspection Report	GEF-15-002	N	NA	
3	Tank Shell Attachment Weld Defect	WLD-REP1	N	NA	
4	Tank Shell Girth Weld Defect	WLD-REP2	N	NA	
5	Ultrasonic Thickness Test Report	QOP 8.1	N	NA	
6	Ultrasonic Thickness Test Report - Local	EOD REP	N	NA	
7	Insulation System Inspection, Thermography	SIP 5.5.1.1	N	NA	
8	PRD Qualification	SIP 5.8.0.1	Y	Y	
9	Service Equipment Qualification	B.2.1.9.1	Y Y	Y 4-26 Y	
10	Bubble Leak Test	SIP 5.6.0.1	Y	Y	
11	GE TCID	TCID	Y	Y	
12	Rule 88B2	GEF-15-001	N	NA	
13	Interior Lining Inspection	GE Lining Template (7&8)	N	NA	
14	Interior Coil Certificate of Test	MSRP CIII - Fig D.4	N	NA	
15	Cleaned On Site Declaration Form	B.1.9.1	Y	Y	
16	Cleanliness Verification Form	B.1.9.2	N	NA	
17	Scrap Inspection Declaration Form	B.1.9.3	N	NA	
18	Tank Car Inspection Check List	B.2.1	Y	Y	
19	Car Release Condition Form	FOS 026-1	Y	Y	

	Item Description	Relevant Stenciled Information at Time of Car Disposition			
20	Qualification Stencil Info		STATION STENCIL	QUALIFIED	DUE
		TANK QUALIFICATION	MRN	2009	2019
		THICKNESS TEST	MRN	2009	2019
		SERVICE EQUIPMENT	MRN	2016	2026
		PRD Valve 75psi	MRN	2009	2019
		LINING	NA	—	—
		88 B 2 INSPECTION	MRN	2009	2019
		STUB SILL INSPECTION	MRN	2009	2019
21	Exterior Paint- Date/ System	11-2009 / Itempel Epoxy			
22	Interior Lining - Date/ System	NA			

Miscellaneous Info			
23	Air Brake Test Completed: (Yes) / No		
24	Car Equipped With Reflectorization: (Yes) / No		
25	C 2.16.1 McKenzie Valve Form Yes/(No)		

Checklist Completed By: Keith A. Robinson Date Submitted: 4-26-16

GE Equipment Services Rail Services	Document Title:	Bubble Leak Test Report				
	Document No.:	SIP 5.6.0.1	Revision:		Issue Date:	3-6-2012
	DCR Number:	67918457	For use with:	SIP 5.6.0	Page: 1 of 1	

BUBBLE LEAK TEST REPORT

Car Number: ACFX 73711	Car Type: Pressure ☐ GP ☒	Date: 4-12-16
Shop Name: GBW/MRN	Location: Woodlawn, KS	Leak Solution and Temp Range: Sherlock Type 1 85°-160°F
Temp. Gage ID: Int 68	Cal. Due: 10-27-16	Press. Gage ID: PG 420
		Cal. Due: 9-16-16

Bottom Fittings Test

Pressure Medium Used: Air

	Pass	Fail	Repairs:	
Water Test Bottom Outlet Valve Pressure Reading: psig Surface Temperature: °F	☐	☐		N/A ☒
Bubble Test Bottom Outlet Valve Pressure Reading: 35 psig Surface Temperature: 68°F	☒	☐		N/A ☐

Service Equipment Fittings Test

Surface Temperature: 70 °F | Pressure Medium Used: Air | Pressure Reading: 35 psig

	Pass	Fail	Repairs:	
Manway & Fittings Nozzle (GP Tank)	☒	☐		N/A ☐
Air Inlet Valve	☒	☐		N/A ☐
Loading/Unloading Valves	☒	☐		N/A ☐
Vacuum Relief Valve	☐	☐		N/A ☒
PRD	☒	☐		N/A ☐
Thermowell	☐	☐		N/A ☒
Sample Valves	☐	☐		N/A ☒
Gauging Device	☐	☐		N/A ☒
Bubble Test of Valve Mounting Joints	☐	☐		N/A ☐
Immersion Test of Valve Mounting Joints	☐	☐		N/A ☒
Bubble Test of Nozzle Joint (Pressure Car)	☐	☐		N/A ☒

Closure Inspection	Done	N/A
Interior repairs complete and car is clean & ready to be sealed.	☒	☐
All Valves Open and Close as Stenciled.	☒	☐
Depressurize and close all valves.	☒	☐
Top fittings valve plugs and caps in place.	☒	☐
Manway cover and / or fittings cover is closed and secured.	☒	☐
BOV, Outlet Cap, Washout, Blind Flange, as applicable, closed and secured.	☒	☐
Seals applied per GEMM B.2.1.	☐	☒

Seal Numbers:

Final Leakage Test Results	Pass ☒	Fail ☐

I certify all procedures checked above have been satisfactory completed per Procedure SIP 5.6.0.

Ramon Taylor
Printed Name

Signature

4-12-16
Date

Level of Certification: II

Station Stencil	CAR INIT/NUMBER	Shop Location	Date

Top Fittings	Equipped Y/N	Manufacturer	Model No.	Serial No.	O-ring / Seat Material	Station Stencil	Applied MO/Year	New or Rebuilt
Eduction Valve (1) [3]	Y	JB	5RRF3600TT	E979055-B	TF	MRN	4-16	Rebuilt
Eduction Valve (2)								
Vapor Valve (1) [2]	Y	JB	9150313600TTT2	B16.34	TF	MRN	4-16	New
Vapor Valve (2)								
Vacuum Relief								
Thermowell								
Gaging Device								
Sample Line Valve								

Pressure Relief Device	Valve / Vent/ Combo	Manufacturer	Model No.	Serial No.	O-ring Material	Station Stencil	Applied MO/Year	New or Rebuilt
PRD (1)	Combination	~~JB~~ JB 4-16	~~9150313600TTT2~~ 1-> 4-16					
PRD (2)								
Regulator Valve (1)								
Regulator Valve (2)								

Bottom Outlet Valve	Equipped Y/N	Manufacturer	Model No.	Serial No.	O-ring or Seat Material	Station Stencil	Applied MO/Year	New or Rebuilt
BOV	Y	~~549~~ Midland	549	NA	BN	MRN	4-16	Rebuilt
Secondary BOV								

GE Equipment Services Rail Services	Document Title:	Bubble Leak Test Report				
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	DCR Number:	67918457	For use with:	SIP 5.6.0	Page: 1 of 1	

BUBBLE LEAK TEST REPORT

Car Number:	ACFX 73711	Car Type:	Pressure ☐ GP ☒	Date:	10-8-15
Shop Name: GBW	Location: NEODESHA	Leak Solution and Temp Range:	SHERLOCK TYPE I 35°/160°		
Temp. Gage ID: IRT 281	Cal. Due: 11-25-15	Press. Gage ID: IRT 148	Cal. Due: 10-13-15		

Bottom Fittings Test

Pressure Medium Used:

	Pass	Fail	Repairs:	N/A
Water Test Bottom Outlet Valve Pressure Reading: psig Surface Temperature: °F	☐	☐		☒
Bubble Test Bottom Outlet Valve Pressure Reading: 35 psig Surface Temperature: 72 °F	☐	☒	Rebuild BOV	☐

Service Equipment Fittings Test

Surface Temperature: 74 °F | Pressure Medium Used: AIR | Pressure Reading: 35 psig

	Pass	Fail	Repairs:	N/A
Manway & Fittings Nozzle (GP Tank)	☐	☒		☐
Air Inlet Valve	☐	☒		☐
Loading/Unloading Valves	☐	☒		☐
Vacuum Relief Valve	☐	☐		☒
PRD	☒	☐		☐
Thermowell	☐	☐		☒
Sample Valves	☐	☐		☒
Gauging Device	☐	☐		☒
Bubble Test of Valve Mounting Joints	☒	☐		☐
Immersion Test of Valve Mounting Joints	☐	☐		☐
Bubble Test of Nozzle Joint (Pressure Car)	☐	☐		☐

Closure Inspection	Done	N/A
Interior repairs complete and car is clean & ready to be sealed.	☐	☒
All Valves Open and Close as Stenciled.	☐	☒
Depressurize and close all valves.	☐	☒
Top fittings valve plugs and caps in place.	☐	☒
Manway cover and / or fittings cover is closed and secured.	☐	☒
BOV, Outlet Cap, Washout, Blind Flange, as applicable, closed and secured.	☐	☒
Seals applied per GEMM B.2.1.	☐	☒
Seal Numbers:		

Final Leakage Test Results	**Pass** ☐	**Fail** ☒

I certify all procedures checked above have been satisfactory completed per Procedure SIP 5.6.0.

Benjamin R. Murphy — Printed Name

Benjamin R Murphy — Signature

10-8-15 — Date

Level of Certification: II