



ASSOCIATION OF AMERICAN RAILROADS

K.B. Dorsey

Executive Director - Tank Car Safety

2/4/2016

SUBJECT: AAR M-1002 Tank Car Facility Certification

Mr. Tim Bowman
General Manager
TF Warren Group, Inc. Blastech Division
57 Old Onondaga Road West
Brantford, ON N3T 5M1 Canada

Dear Mr. Bowman:

The Tank Car Committee directs that you be advised that subject facility is certified as shown below, provided that the facility maintains valid Quality Assurance certification in accord with AAR Specification M-1003 and provided that all outshopped tank cars are in accord with the Federal regulations and M-1002, Specification for Tank Cars. This facility must have the ability to produce this letter upon request.

This certification is only for the facility listed below:

TF Warren Group, Inc. Blastech Division
57 Old Onondaga Road West
Brantford, ON N3T 5M1
Station Stencil: TFWG
Expiration Date: 11/19/2021
Activity Code(s): B24 B81 C6 C7 C8 C9 C10 C11
Repair Level (if applicable): RL1
Material Group(s)(if applicable): 1 Including TC-128

The AAR will periodically publish listings of certified facilities. The listing will include the following: Company name, facility location, station stencil, facility activity code(s), material group(s), repair level (if applicable), and expiration date of certification.

Very truly yours,

A handwritten signature in black ink, appearing to read "Kenneth B. Dorsey".

K.B. Dorsey

cc: D. Guillen, M. Forister, P. Draper



**ASSOCIATION
OF AMERICAN
RAILROADS**

EXHIBIT B-2

AAR TANK CAR FACILITY INSPECTION AND EVALUATION FORM

An inspector (individual or team) assigned by the Executive Director—Tank Car Safety representing the Tank Car Committee uses this form to document the inspection performed during initial certification and recertification. This form is used as the basis for recommending approval of an application for certification and recertification in accord with AAR *Manual of Standards and Recommended Practices*, Section C Part III, Specifications for Tank Cars (M-1002). This form is also used to document annual evaluations that are required to maintain certification. Comments, if needed, are required to be written in each applicable section.

Part 1: General Information

1 Initial Certification Inspection Recertification Inspection Annual Evaluation Other

2 Date Exhibit B-3 and B-3A were submitted (MM/DD/YYYY) 02/09/2015

3 Is the facility an existing AAR Registered Tank Car Facility? Yes No

If yes, provide the following:

What is the Station Stencil?

Do they prefer to keep the same Station Stencil? Yes No N/A

4 Provide the following for Recertification, Annual Evaluation, or Other:

Has the facility changed scope of work since the last inspection? Yes No N/A

If yes, did they submit an Exhibit B-3 Change Notification Form to the Executive Director? Yes No

Include with this form a copy of the Exhibit B-3 Change Notification Form.

Describe the Change:

Comments

Part 2: Tank Car Facility Information

5 Station Stencil TFWG

6 Company Name TF Warren Group, Inc. Blastech Division

7 Address 57 Old Onondaga Road West

8 City Brantford

9 State/Province Ontario

10 ZIP/Postal Code N3T 5M1

11 Country Canada

12 Facility M-1003 QA Code TFWG

13 Facility M-1003 QA Certification Expiration Date

14 M-1003 QA Auditor Name DeWayne Green

Comments

Part 3: Primary Contact at Facility

15 Name Tim Bowman

16 Title General Manager

17 Office Phone 519-754-3724

18 Cell Phone

19 Fax 519-753-1453

20 Email Address tim.bowman@tfwarren.com

Comments

Part 4: Applicant

21 Is the applicant the contact identified in Part 3 and located as identified in Part 2? Yes (if so, skip this part) No

22 Company Name

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AAR TANK CAR FACILITY INSPECTION AND EVALUATION FORM

23 Name		24 Title
25 Address		26 City
27 State/Province	28 ZIP/Postal Code	29 Country
30 Office Phone	31 Cell Phone	32 Fax
33 Email Address		
Comments		

Part 5: Recipient of Certification from AAR

34 Select the Recipient (NOTE: This facility must have the ability to produce the certification letter upon request.)

- Applicant (Part 4) Primary Contact (Part 3)

Comments

Part 6: Inspector Information

35 Name(s) DeWayne Green

36 Title(s) Field Inspector

37 Organization(s) TTCI / Bureau of Explosives

Comments

Part 7: Inspector Recommendation

38 Inspection Date (MM/DD/YYYY) 11/19/2015

39 Were the equipment, personnel, and records found to be as listed in the request for certification (B-3 and B-3A)?

- Yes No N/A

40 Recommend Certification for the following tank car activity code(s):

- A19 B24 B78 B79 B80 B81 B82 B83 B84 B85 B86
 C4 C5 C6 C7 C8 C9 C10 C11

41 Recommend Certification for the following repair level capability (if applicable):

- RL1 RL2 N/A

42 Recommend Certification for the following material groups (if applicable):

- MG 1 TC-128 Included MG 2 MG 3 MG 4 MG 7 N/A

43 Signature of Inspector DeWayne Green

Comments

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AAR TANK CAR FACILITY INSPECTION AND EVALUATION FORM

Items	Evaluated	Comments
Part 8: Publications		
44 AAR MSRP, Section C, Standard S-2034	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
45 AAR MSRP, Section C Part II, Design, Fabrication, and Construction of Freight Cars (M-1001)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
46 AAR MSRP, Section C Part III, Specifications for Tank Cars (M-1002)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes
47 AAR MSRP, Section J, Specifications for Quality Assurance (M-1003)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes
48 <i>Field Manual of the AAR Interchange Rules</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
49 <i>Office Manual of the AAR Interchange Rules</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
50 Other publications required by the <i>Field Manual of the AAR Interchange Rules</i> , Rule 1.5.b	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
51 AAR circulars and Casualty Prevention circular letters	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes
52 Title 49 Code of Federal Regulations, Parts 171-180	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes
53 Title 49 Code of Federal Regulations, Parts 215, 231	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
54 Transportation Dangerous Goods (TDG) Regulations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
55 CGSB Standard CAN/CGSB 43.147-2005	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes

Comments

Part 9: Documentations

56 As applicable, are Certificates of Construction (Form AAR 4-2) and/or Exhibit R-1 or R-2 reports properly prepared and filed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
57 Are reports of tank car, pressure relief valve, and/or interior heater system inspections and tests prepared and retained, or reported to the tank car owner, as required by 49 CFR §180.509(a)(4) and §180.517(b), and/or Appendix D, Fig. D4, "Certificate of Test Form"?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
58 Are reports covering nondestructive testing (NDT) prepared and maintained as required by Appendix T, paragraphs 1.20 and 1.21, and the applicable method section?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
59 If stub sill inspections are performed, are Form SS-3 reports properly prepared and submitted to the tank car owner; or has the inspection data been submitted to the AAR? (CPC-1194)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
60 Are Exhibit B-1, "Subcontractor Evaluation Sheet," forms completed as required by Appendix B, paragraph 2.7?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
61 For tank plate material, are mill tests reports available?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes

Comments

56) Contractor has not begun work on tanks so these reports were not available at the time of the audit.

57) The contractor is not currently performing these inspections and test but has the processes and capabilities in place to do so.

58) The contractor has the necessary trained personnel (NDT Technicians completed OJT hours at National Steel Car), procedures and equipment on site to conduct the work applied for.

59) While not currently performing the inspections, contractor has the capability to perform the inspections and submit the reports.

60) B-1 Subcontractor Evaluation Sheets'

WATCO Supply Chain Services- NDT Level III expires 7/15/2016

NDT Group- NDT Training, expires 7/15/2016

Calibration Technologies Ltd. - Calibration Services of NDT Equipment, expires 9/15/2016

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AAR TANK CAR FACILITY INSPECTION AND EVALUATION FORM

Items	Evaluated	Comments
TISI Canada Inc. - NDT training services, expires 7/15/2016		

Part 10: S-2034 Car Builder Certification

62 Does the facility have a valid S-2034 Car Builder Certification? (Applicable to Activity Codes A19 and/or B78)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
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Comments

Part 11: Facilities

63 Are materials identified when transferred from storage to the shop prior to processing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
64 If the facility performs pressure relief valve testing and/or hydrostatic testing, are gauges in compliance and calibrated in accordance with Appendix D, paragraphs 4.5.1 and 4.5.2?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
65 Does the facility have the necessary, operable, and maintained equipment on its premises to perform the intended work?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
66 Is there proper storage for service equipment, valves and fittings, gaskets, and fasteners?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes

Comments 63) Contractor has processes and procedures in place to ensure identification of materials transferred into the production area.

Part 12: Work in Progress

67 Is work in progress being performed in compliance with the applicable requirements of AAR M-1002?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
68 Were any files reviewed for the work the facility is certified to perform (e.g., manufacturing, repair, qualification/testing, etc.)? If "Yes," provide details under "Comments."	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes

Comments 67, 68)- No work in process or car files available. New Facility.

Part 13: Quality Assurance and Nondestructive Examination

69 Does this facility maintain an AAR-approved quality assurance program as required by 49 CFR §179.7 and Appendix B, paragraph 2.4?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes
70 As required by 49 CFR §179.7(b)(8), does the facility's quality assurance program contain provisions indicating that the requirements of the AAR specifications for tank cars apply to tank car construction, repair, and/or qualification processes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
71 Does the facility employ a qualified welding inspector as required per Appendix B, paragraph 2.6.2? The following shall be provided with this report: a list of name(s), qualification (AWS, CSA, or an in-house program), and date of expiration.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
72 If the facility does not employ a welding inspector, an Exhibit B-1 should be on file for subcontractors performing this function as required by Appendix B, paragraph 2.7.1. Does the facility have Exhibit B-1s?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
73 Is the facility's NDT program administered by an NDT Level III as required by Appendix T, paragraph 1.4.1? In the comment field of this section enter the Name of NDT Level III and date of expiration per method.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
74 Are the qualification requirements for the NDT Level III included in the written practice for qualification and certification as required by Appendix T, paragraph 1.8.4?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
75 Are the NDT personnel employed by this facility qualified and certified in accordance with a written practice, as required by Appendix T, paragraph 1.5, that includes the applicable requirements of Appendix T, paragraphs 1.6 through 1.17?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes

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AAR TANK CAR FACILITY INSPECTION AND EVALUATION FORM

Items	Evaluated	Comments
76 Does the facility have written procedures, approved by an NDT Level III, for the NDT methods utilized as required by Appendix T, paragraph 1.18?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
77 Have all NDT procedures been qualified and technically approved by an NDT Level III as required by Appendix T, paragraph 1.19?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
78 Is the calibration of NDT equipment performed in accordance with M-1003, paragraph 2.8, and the facility's quality assurance program calibration requirements, as required by Appendix T, paragraph 1.22?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
79 For NDT examinations (RT, PT, MT, and UT), are the acceptance criteria and personnel qualification requirements contained in Appendix W, paragraphs 11.1 through 11.5.3 being met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
80 Are NDT tests documented and records maintained as required by Appendix T, paragraphs 1.20.1 through 1.21?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
81 Were any NDT examinations observed; and/or NDT reports, radiographs, or PWHT/ LPWHT reports and charts reviewed during this inspection? If "Yes", provide details under "Comments."	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
82 Is the technical performance of Level I and II NDT personnel periodically evaluated and documented by an NDT Level III, as required by Appendix T, paragraph 1.10.2?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
83 Does the facility's quality control program include the requirements of Appendix W, paragraph 10.2.3.4, regarding designated authority for the administration of the welding quality control program, technical supervision of welders, etc.?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
84 Are written procedures (such as work instructions, welding/NDT procedures, etc.) provided to employees or otherwise made available at the work site to ensure that work on tank cars conforms to M-1002 specification, AAR approval, and the owner's acceptance criteria, as required by 49 CFR §179.7(d)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes

Comments

71)- Brian McCracken VT Level II expires 10/15/2017
 72)- Chris Gamlin (Watco) NDT Level III, BT, expires 5/19
 PT, expires 9/17
 MP, expires expires 9/17
 UT , expires 4/18
 79) Brian McCracken RVI Level II expires 10/15/2017
 Brian McCracken MT Level II expires 10/15/2017, PT Level II expires 01/26/2018, BT Level II expires 07/17/2017
 80) RL1 demonstration documented
 81) Mag Particle demonstrated on RL1.
 82) Mr. McCracken's initial certification VT, RVI, and MT was 10/15/ 2015

Part 14: Welding Practices

85 Are welding, fabrication, and construction processes performed in accordance with Appendix W?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
86 Does the certified facility's quality control program include as a minimum the following as required by Appendix W, paragraph 10.2.3.4? <ul style="list-style-type: none"> • The designated authority for the administration of the welding quality control program • A description of the administration and technical supervision for all welders • A description of the exclusive authority to assign and remove welders without involvement of any other organization • A requirement for assigning welder identification symbols 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
87 If post-weld heat treatment is required after welding, are the applicable requirements of Appendix R, paragraph 20.0, and Appendix W, paragraph 17.0, being followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
88 Are welding procedure specifications (WPSs) and procedure qualification records (PQRs) as required by Appendix W, paragraph 13.0, on file for the welding procedures utilized?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes

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AAR TANK CAR FACILITY INSPECTION AND EVALUATION FORM

Items	Evaluated	Comments
89 Are welders and/or welding operators engaged in welding on tank car tanks performance qualified, as required by Appendix B, paragraph 2.6.1.1, in accordance with Appendix W, paragraph 12.0?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
90 Are welders assigned a number, letter, or symbol as required by Appendix W, paragraph 10.4; and are welds identified in accordance with Appendix W, paragraph 15.9?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
91 Are the welder visual acuity requirements of Appendix W, paragraph 15.2.1, being met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
92 Have welders engaged in welding on tank car tanks been trained and qualified in the areas of welding symbols, welding procedures, acceptance criteria, and other sections of AAR M-1002 as required by Appendix W, paragraph 10.2.2, applicable to their work; and is the training documented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
93 If a welder's qualifications have expired or there is reason to question his/her ability, is the renewal of qualification procedures required by Appendix W, paragraph 12.8 followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
94 Are welders not engaged in welding on tank car tanks qualified per M-1001, paragraph 5.1.8.2, as required by Appendix B, paragraph 2.6.1.2?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
95 Are there sufficient flux and/or rod ovens in use to support the operations?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
96 Is there proper storage for welding electrodes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
97 If the facility is certified to repair level "RL1," does the facility demonstrate proficiency in performing welding to tank car tank material, NDT method MT or PT, and postweld heat treatment? This level excludes repairing a through-the-tank-car tank defect (insert or through-the-shell/head crack). This demonstration must be performed on a tank car tank or test plate and must be performed on a material from a material group for which the facility seeks certification.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
98 If the facility is certified to repair level "RL2," does the facility demonstrate proficiency in performing welding to tank car tank material, NDT, and postweld heat treatment? This level includes repairing a through-the-tank-car tank defect (insert or through-the shell/ head crack). This demonstration must be performed on a tank car tank or test plate and must be performed on a material from a material group for which the facility seeks certification.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes

Comments 85) Processes in accordance with Appendix W are in place. New facility' no completed work except the RL1 demonstration.
 92)- Appendix W Welder Tim Bowman trained in Symbols For Welding (Gooderham Center for industrial Learning)
 95)- Flux Core Wire only used at the facility.
 97) A 4' x 4' x 7/16 section of TC 128 (mill cert. on hand no exceptions) with proper radius was used for The "RL1" demonstration. Appendix W welder Tim Bowman (certificate and visual acuity on hand, no exceptions) prepared a 14" x 14" x 7/16" pad (TC 128) for the demonstration. Welder used procedure WPS-001, AWS Classification E71T-1M/C J (Original) date 02/18/2015 for the application. Temperature of plate as well as interpass temperatures were confirmed with infrared temperature gauge #14130108 calibration date 1-29-2015 due 1-29-2016.
 Visual inspection of weld conducted by Team Industrial Services Technician Tim Anderson, VT Level II (visual acuity on hand no exceptions). Certification expires 11-2020. PWHT was performed by Team Industrial Technician Corey Wilkinson. PWHT Certificate issued 3-18-2013.
 Mag Particle examination performed by Jay Baird MT level I (visual acuity on hand no exceptions) under direction of Tim Anderson MT Level II.

Part 15: Manufacturing and Repair Practices

99 Do tank car materials (plate, studs, bolts and nuts, etc.) comply with the specifications for materials contained in Appendix M?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
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EXHIBIT B-2

AAR TANK CAR FACILITY INSPECTION AND EVALUATION FORM

Items	Evaluated	Comments
100 Are repairs and alterations to, or conversions of, tank car tanks performed in accordance with Appendix R?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes

Comments 99) TC 128 plate used for RL1 demonstration.

Part 16: Service Equipment Practices

101 If tank car valves and fittings are manufactured, are the approval and service trial requirements contained in Appendix A, paragraphs 1.2 and 1.3, complied with?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
102 If tank car valves and fittings are manufactured, are the specifications for materials (including threaded fasteners and castings) and design and application requirements, prescribed by Appendix A, paragraphs 3.0 and 4.0, and Appendix M, paragraph 4.0, complied with?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
103 If pressure relief devices are manufactured, are flow capacity tests performed as required by Appendix A, paragraph 6.0?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
104 If manufactured or reconditioned, are pressure relief valves, rupture disc devices, frangible discs, liquid and vapor valves, and liquid level control and gauging devices marked in accordance with Appendix A, paragraph 7.0, as applicable?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
105 If the facility performs pressure relief valve, tank, and/or interior heater systems testing, are gauges in compliance and calibrated in accordance with Appendix D, paragraphs 4.5.1 and 4.5.2?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
106 If tank car service equipment is qualified, are the applicable stenciling requirements contained in Appendix C, paragraph 3.3.3.2, being complied with?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
107 Are the maintenance, qualification, and test procedures contained in Appendix D, paragraphs 3.2.3 and 4.0, (particularly paragraph 4.3, step 5, regarding inspection of PRVs per the manufacturer's guidelines) being followed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
108 Are reports of pressure relief valve tests prepared and reported to the tank car owner as required by 49 CFR §180.509(a)(4) and 180.517(b), and Appendix D, paragraph 5.0 utilizing Fig. D4, "Certificate of Test Form," or other equivalent form?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
109 If an item of tank car service equipment has been removed and replaced or reinstalled, is a leak test performed after reassembly as required by 49 CFR §180.509(c)(3) and (j)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes

Comments 106, 109) While not currently performing this work the contractor has the processes and procedures in place to do so.

Part 17: Tank Car Valve and Fittings Practices

110 Are pressure relief valves, rupture disc devices, frangible discs, liquid and vapor valves, and liquid level control and gauging devices marked in accordance with Appendix A, paragraph 7.0, as applicable?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
111 Are bottom outlet arrangements and/or valve attachments in accordance with 49 CFR §179.200-17(a)(6), Appendix A, paragraph 4.15, and Appendix E, paragraphs 9.0, 10.0 or 14.0, as applicable?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes

Comments 110) No cars or service equipment on site but Contractor has procedure identifying service equipment.
111) Contractor has processes and procedures in place to comply with valve arrangement requirements.

Part 18: Inspections and Tests Practices

112 If this facility manufactures tank car tanks, are tank and/or interior heater system hydrostatic tests, required by 49 CFR §§179.12(b), 179.100-18, and/or 179.200-22, as applicable, performed in accordance with the procedures outlined in Appendix D paragraph 4.2.1?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
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EXHIBIT B-2

AAR TANK CAR FACILITY INSPECTION AND EVALUATION FORM

Items	Evaluated	Comments
113 Are the retest, qualification, and inspection requirements of 49 CFR §§180.509 and 180.511, and the additional AAR requirements contained in Appendix D, paragraphs 3.0 through 3.2, being met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
114 Are pressure relief valve gaskets or gasket seals made of elastomeric materials, normally exposed to the lading, replaced when the device is tested as required by Appendix D, paragraph 3.4?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
115 At the time of tank or pressure relief valve qualification, do tank cars equipped with bottom outlets have the outlet caps and nozzles inspected for wear in accordance with the requirements of Appendix D, paragraph 3.6?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
116 Are the pressure relief valve and hydrostatic test procedures contained in Appendix D, paragraph 4.0 (particularly paragraph 4.3, step 5 regarding inspection of PRVs per the manufacturer's guidelines) being followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
117 At each tank qualification, are hinged and bolted manways on nonpressure cars inspected, maintained, and tested as prescribed by Appendix D, paragraph 6.0?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
118 Do inspectors have available, and use, welding gauges and a tag system?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes

Comments 113, 115) Contractor has processes and procedures in place to comply to the requirements.
 116) Procedures in place to comply with requirements. Contractor plans to subcontract PRD rebuild and test.
 117) Procedures are in place for this inspection.

Part 19: Marking, Stenciling, and Painting Practices

119 Are new tank cars, or existing tank cars that are repainted or restenciled, marked and/or stenciled in accordance with Appendix C?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
120 If tank car tanks are manufactured or converted, are they properly stamped, as required by 49 CFR §§179.100-20(a) or 179.200-24(a), and/or have identification plates applied as required by Appendix C, paragraph 4.0, and 49 CFR §179.24?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
121 For insulated carbon steel tank cars, is a protective coating applied to the exterior of the tank and the inside surface of a carbon steel jacket as required by 49 CFR §§179.100-4(a) or 179.200-4(a)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes
122 If repairs require the complete removal of the tank car jacket, is a protective coating applied to the exterior of the shell and the interior of the jacket as required by 49 CFR §180.513(c)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes

Comments 119) Contractor will be applying interior coatings only at this time. Stenciling requirement procedures are in place.

Part 20: Lining and Coating Practices

123 Unless approved in writing by the contracting authority, are all valves and fittings removed when stripping or applying an interior lining or protective coating, as required by Appendix L, paragraph 3.2.2?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
124 Are the methods prescribed by Appendix L, paragraph 3.3, used for cleaning, application, or stripping of linings or coatings?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
125 For activities regulated by 49 CFR Part 180, does the facility have available a coatings inspector qualified as required by Appendix L, paragraph 4.1?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
126 For activities regulated by 49 CFR Part 180, are the interior surfaces of tank cars prepared by personnel trained and qualified in accordance with Appendix L, paragraph 4.2?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
127 For activities regulated by 49 CFR Part 180, are interior coatings and/or linings applied in accordance with the material manufacturer's application procedure and/or the contracting authority's requirements by qualified personnel in accordance with Appendix L, paragraph 4.3?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes

EXHIBIT B-2

AAR TANK CAR FACILITY INSPECTION AND EVALUATION FORM

Items	Evaluated	Comments
128 For activities regulated by 49 CFR Part 180, as required by §180.509(i), does the facility follow the inspection and test procedure (including acceptance requirements) established by the coating or lining owner?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
129 Are the requirements of Appendix L, paragraph 5.0 regarding valves and fittings being met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
130 Are the compliance requirements of Appendix L, paragraph 6.0, including the requirement that the contracting authority prepare an inspection and test plan per 49 CFR §180.509, being met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
131 Are the reports required by Appendix L, paragraphs 7.1 and 7.2, properly prepared, retained, and furnished to the car owner?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
132 Are the requirements contained in Appendix L, paragraph 8.0, pertaining to coatings and linings applied for corrosive service being met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
133 Are the stenciling requirements prescribed in Appendix C, paragraphs 3.3.3.3.1 and 3.3.3.3.2, and/or Appendix D, paragraph 2.1.18, being complied with?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes
134 If the facility removes and/or replaces tank car service equipment or replaces gaskets (other than non-pressure hinged manway, fill hole, or bottom outlet cap gaskets), does the facility obtain and maintain activity code C6 as required by Appendix B, Table B.2?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes
135 If the facility retests pressure relief valves, does it maintain certification to activity code C5 as required by Appendix B, Table B.2?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes

Comments 124) Contractor is not currently performing tank car linings. They do however blast and apply interior coatings to various pressure vessels, manifolds and piping.
 125) NACE Certified coatings inspector Stephen Quinn, Certificate# 3725, expires 2017. Blasters and interior coating applicators are in house trained.
 127) While not currently applying interior coatings to tank cars the Contractor is applying interior coatings to various types of pressure vessels and has the equipment, gauges, and trained personnel to perform the work.
 134) While not currently performing this work on tank cars the Contractor has the procedures and trained technicians in place to perform the work.

Part 21: 49 CFR Hazardous Materials Regulation Requirements

(The following items are not required for certification; however they are furnished as information to facilities performing tank car activities.)

- 136** If tank cars containing the residue of a hazardous material are offered for transportation, are shipping papers prepared in accordance with 49 CFR Subparts C and G, Part 172?
- 137** If tank cars containing the residue of a hazardous material are offered for transportation, are they marked and/or placarded in accordance with 49 CFR Subparts D and F, Part 172?
- 138** Personnel meeting the definition of a "hazmat employee" in 49 CFR §171.8 must be trained, tested, and certified as prescribed by 49 CFR Subpart H, Part 172, including General Awareness or Familiarization; Function-Specific; Safety; and Security Awareness training. Is the facility aware of these requirements?
- 139** As prescribed by 49 CFR §179.7(e), tank car facility personnel must be trained, tested, and certified regarding the facility's quality assurance program and procedures in accordance with Subpart H, Part 172. Is the facility aware of these requirements?
- 140** If applicable to the facility's operations, a transportation security plan must be developed and implemented as prescribed by 49 CFR Subpart I, Part 172; and "hazmat employees" must receive in-depth security training as required by 49 CFR §172.704(a)(5). Is the facility aware of these requirements?
- 141** Per 49 CFR §180.513(b), Responsibilities of Tank Car Facility, a tank car facility must obtain the permission of the equipment owner before performing work affecting alteration, conversion, repair, or qualification of the owner's equipment per 49 CFR §180.513(b). Is the facility aware of these requirements?

EXHIBIT B-2

AAR TANK CAR FACILITY INSPECTION AND EVALUATION FORM

Items	Evaluated	Comments
Part 22: TDG Regulations and CGSB Standard Requirements (The following items are not required for certification; however they are furnished as information to facilities performing tank car activities in Canada.)		
142 Has the facility registered in accord with CGSB 43.147, section 4.11?		
143 If tank cars containing the residue of dangerous goods are offered for transportation, are shipping papers prepared in accordance with Part 3 of the TDG regulations?		
144 If tank cars contain the residue of dangerous goods, are they marked and/or placarded in accordance with Part 4 of the TDG regulations?		
145 If tank cars are cleaned and purged of dangerous goods, are identification numbers, commodity names, hazard warnings, placards, etc., removed or covered for compliance with Part 4 of the TDG regulations?		
146 Have personnel received transportation of dangerous goods training as required by Part 6 of the TDG regulations?		
147 Have personnel received quality management system training as referenced by paragraph 5.4.3, CGSB 43.147?		

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