



GENERAL ENGINEERING REQUIREMENTS FOR BOILERS AND PRESSURE VESSELS REPAIR AND ALTERATION PROCEDURE

REPAIR ☐
or
ALTERATION ☒

AB-230 2011-09

1. **Name and Address of Organization** performing Repair/Alteration Cameron Canada Corporation
6908 - 42nd Street, Leduc, AB, T9E 0W1 AQP No. & Expiry Date 1366 - JUNE 06, 2014

Location of Installation Stock - 420 Aquaduct Drive, PO Box 2168, Brooks, AB T1R 1C8 LSD:04-12-031-20 W3M

2. **Name of Owner** Tamarack Aquition Corp.

Address 3100, 250 - 6 Avenue SW, Calgary, AB, T2P 3H7

3. **Vessel Manufacturer's Name** Cameron Canada Corporation **CRN** V7949.23

A#: 619247 **National Board #:** N/A **Serial No.:** 12-014-1 **Owner Equip No.:** _____

4. **Original Design Conditions:**

- i) Vessel/Shellside/Boiler: Max Allowable Working Press. 75 psi Min/Max Design Temp -20°F/266°F
ii) Tubeside: Max Allowable Working Press. _____ Min/Max Design Temp /
iii) Other: Max Allowable Working Press. _____ Min/Max Design Temp /

5. **Original ASME Code Edition and Addenda:** ASME Sec. VIII-I Year 2010 Addenda 2011a

6. **Repair/Alter. Description of Work.** Step by step description of repair/alteration method. Attach additional sheets as needed. If added: Sheet # _____ thru _____.

Reference Drawing #: D-2014-18-8925 & D-2014-18-8926

7a. **UT Report enclosed:** Yes: ☐ No: ☒ If no, explain: Vessel is internally coated and built 2012.

7b. **Out of roundness report enclosed** (for external pressure only):

Yes: ☐ No: ☐

If no, explain: _____

8. **Heat Treatment:** Preheat Temp N/A Postweld HT (Temp./Time) N/A / hr

9. **Non Destructive Examination** (Specify type and extent).

RT-2 - Long/Circ seams per code.

10a. **Pressure Test** Vessel/Boiler/Shellside Tubeside/Other

i) Hydrostatic 98 PSI

ii) Other Test _____

10b. **Test procedure enclosed:** Yes: ☐ No: ☒ If no, explain: Pressure of 98 PSI will be held for 1 hr.

11 **ADDITIONAL REMARKS/COMMENTS:** _____

12. Anticipated completion date: Dec 19, 2014

SIGNATURE OF APPLICANT: _____

DATE: Oct 8, 2014

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CRN: _____ **A#:** _____ **Signature:** _____ **Date:** _____



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Supplemental Sheets:

This is the second alteration to be done on the vessel in order to improve its process requirements.

Scope of work will be to:

1. Cut Left Head at the weld seam and rotate head 180° then weld head back to Cylinder, The center line of the FT nozzle will be 4" above the center line of the vessel "Process Requirements"
2. Add the following nozzles (see attached New Nozzle Schedule on drawing #2014-18-8925):
 - C1A-R: NPS 1 (qty 16)
 - C2: NPS 1 (qty 1)
 - N8B: NPS 3 (qty 1)
 - N20: NPS 2 (qty 1)
 - N21: NPS 6 (qty 1)
 - N22: NPS 4 (qty 1)
 - N23: NPS 4 (qty 1)
 - N24A-F: NPS 2 (qty 6)
 - N25: NPS 4 (qty 1)
 - N26A-C: NPS 3 (qty 3)
 - N26D: NPS 3 (qty 1)
 - N27A-C: NPS 3 (qty 3)
 - N28A-C: NPS 2 (qty 3)
3. Weld internal attachment clips and supports/baffles
4. Remove N15 and replace it with N27B
5. Remove N16 and replace it with N27A
6. Design Temperature altered from 200° F to 266° F (calculation done for all shells, heads and nozzles. The submitted report contains only new added nozzles and affected components)
7. All above work will be done in the field

Note: We require the registration for alteration to be registered in both Alberta and Saskatchewan.

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CRN: _____ A#: _____ Signature: _____ Date: _____