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May 24, 2023

ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6  
CANADA

**Workorder Type:** Registration - Heat Exchanger (Conventional)  
**Workorder No:** 8266019  
**Your Reference No.:** Z8120.2 - R-1869 - NATIONAL SERVICE  
**Registered to:** API HEAT TRANSFER

Dear SCOTT ISLIP,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN : Z8120.25  
Main Design No.: 1510-08-072-037 REV 1

Registration Notes:

- "Design registration completed under interprovincial agreement with jurisdictional check only". Acceptance is based on the nozzles not passing through the weld seam and with: tube expansion depth ratio of 0.86", gasket OD of 9.625" and DI of 8.875".
  - Exposed inside edges shall be chamfered or rounded per UG-76-C.
- Please note that the depth of the threads for the openings in the covers should be a minimum according to ASME B1.20.1.
- This heat exchanger design has been evaluated for mean metal temperature of 163.7° F (Shell Side) and 114.2° F (Tube Side). It shall be reevaluated for conditions outside this range before being operated at them. The above notes shall be listed on form U-5 of the MDR.
- This vessel may not be pressurized when its temperature is colder than 20°F. This note to appears on MDR.

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail [customerservices@tssa.org](mailto:customerservices@tssa.org). We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Work Order number provided above.

Yours truly,

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