

February 25, 2019

Attention: Scott Islip
ROUND ENGINEERING INC
10 SEGWUN ROAD
WATERDOWN, ON L8B 0K6

Email: scott.islip@roundeng.com

The design submission, tracking number 2019-00686, originally received on January 31, 2019 was surveyed and accepted for registration as follows:

CRN : 0H19378.2 **Accepted on:** February 25, 2019
Reg Type: NEW DESIGN **Expiry Date:** February 25, 2029
Drawing No. : R-1010-TRAP, R-1010-P1 THRU P4 Rev 0 As Noted
Fitting type: PIPE SPOOLS
Design registered in the name of : TILLEY MECHANICAL TECHNOLOGIES INC

Description	MAWP	Design Temperature	MDMT
Internal Pressure	1172 kPa	260 °C	-29 °C

The registration is conditional on your compliance with the following notes:

- Acceptance is given based on the understanding that the pressure-temperature rating of all fittings used in this pipe spool assembly must satisfy the system's design condition and have a valid Alberta CRN.

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is ASME B31.3.

- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.

- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.

- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3369 or fax (780) 437-7787 or e-mail Radisavljevic@absa.ca.

Sincerely,



RADISAVLJEVIC, ZANA, P. Tech. (Eng.)
DOP Cert. No. D00003136

STATUTORY DECLARATION Registration of Fittings

I, Clint Swanson, Mechanical Project Engineer of Tiley Mechanical Technologies, Inc. Envirosep Fluid&Heat Recovery Systems located at 31 Aviation Blvd., Georgetown, South Carolina, 29440



do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

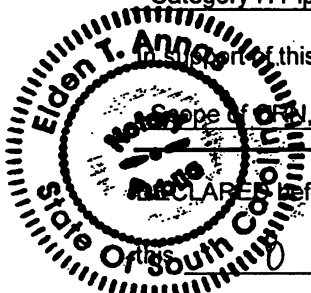
- comply with the requirements of ASME B31.3 which specifies the dimensions, materials of construction, pressure/temperature ratings and identification marking of the fittings, or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, ASME U as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are

Category H Pipe Spools (brief description of fittings)

In support of this application, the following information, calculations and/or test data are attached:

None, Drawings, Calculations, Reports



DECLARED before me at Georgetown in the State of South Carolina day of January, 2019

(print) Elden T. Annas (a Commissioner of Oaths or Notary Public)

(sign) Elden T. Annas (a Commissioner of Oaths or Notary Public)

(signature of applicant)

For-ABSA Office Use Only: See Acceptance Letter for the comments and/or conditions of registration.

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category H

Registration Number: OH 19378.2 (Signature of the Administrator/SCO)

Date Registered: FEB 25 2019 Expiry Date: Feb 25, 2019

SCOPE OF CRN REGISTRATION

Product Description	Drawing Number	Design Code	Size Range	Connections	Piping Material Specification	MAWP at MAWT (psig)	MDMT (F)	Est. Piping Volume (FT ³)	Report Number
TLV Power Trap Assembly	R-1010-Trap R.0	ASME B31.3	3" Sch. 80, 2", Sch. 80, 1" Sch. 160	ASME B16.5 Flanged, NPT (Seal welded)	ASTM A105, A53-B SMLS, A53-E/B	170 psig at 500F	-20	0.03 Cubic Ft.	R-1010-TRAP
Tank Level Gauge Ass'y	R-1010-P1 R.0	ASME B31.3	3/4" Sch. 160	ASME B16.5 Flanged, NPT and Socketweld	ASTM A105, A53-B SMLS Carbon Steel	170 psig at 500F	-20	0.004 Cubic Ft.	R-1010-PIPE
Motive Steam Line Ass'y	R-1010-P2 R.0	ASME B31.3	2" Sch. 80, 1" Sch. 160, 3/4" Sch. 160	ASME B16.5 Flanged, NPT and Socketweld	ASTM A105, A53-B SMLS, A53-E/B, A234-WPB Carbon Steel	170 psig at 500F	-20	0.16 Cubic Ft.	R-1010-PIPE
Exhaust Balance Line Ass'y	R-1010-P3 R.0	ASME B31.3	2" Sch. 80, 1" Sch. 160	ASME B16.5 Flanged, NPT and Socketweld	ASTM A105, A53-B SMLS, A53-E/B, A234-WPB Carbon Steel	170 psig at 500F	-20	0.11 Cubic Ft.	R-1010-PIPE
TLV Power Trap Spool	R-1010-P4 R.0	ASME B31.3	3" Sch. 80, 3/4" Sch. 160	ASME B16.5 Flanged, NPT and Socketweld	ASTM A105, A53-B SMLS, A53-E/B, A234-WPB Carbon Steel	170 psig at 500F	-20	0.15 Cubic Ft.	R-1010-PIPE

Note 1: MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

Note 2: Per CSA Table 1 Note (2)(B) the total volume of any configured manifold assembly shall not exceed 1.5 cubic feet in volume.

Note 3: ASME B16.11 and MSS SP-79 fittings shall be Class 6000.

Note 4: Piping Corrosion Allowance is equal to 0.0625".

ABCA

SAFETY CODES ACT - PROVINCE OF ALBERTA

REGISTRATION OF FITTINGS

REGISTRATION NO. **0H 19378.2**

DWG. NO. or CAT. NO. R-1010-TRAP Rev. 0
R-1010-P1 to P4 R.0

TYPE OF FITTINGS Pipe Spools

Date **FEB 25 2019** INITIALS ZJR

ZANA RADISAVLJEVIC,
DESIGN SURVEYOR

See Acceptance Letter for the comments and/or conditions of registration.