Inquiries : design@absa.ca						Inquiries : prefumo@absa.ca			
COIL TYPE	DESIGN SUBMISSION DETAILS	FLUID	CODE		CRN#	MANUFACTURER'S QC SYSTEM REQUIREMENTS		COIL DOCUMENTATION	
			DESIGN	FAB., INSP. & TEST.	TYPE	ALBERTA OR CANADA	OUTSIDE CANADA	ALBERTA OR CANADA	OUTSIDE CANADA
Direct Fired Process	One submission: fixed same/different sizes &	Process Gas/Liquid NOT for Glycol,	API STD 530	B31.3 & CSA B51 Clause 10 & Annex E (Radiant sect.)	VESSEL	Prov. QP : Direct Fired process Heaters	QC System acceptable to A.I.	AB-82 or AB-82B signed off by A.I.	AB-82 or AB-82B signed off by A.I.
Heater (Coil/Tubes)	usually same MAWP & different Temp	Glycol&Water mixtures, Water or Steam	Section I	Section I	VESSEL	Prov. AQP Sect. I or "S" Designator	"S" Designator	ASME Section I form	ASME Section I form
Direct Fired Thermal Liquid Heater	One submission: fixed sizes & P/T rating	Thermal Liquid(oil)  NOT for  Glycol&Water mixtures,  Water or Steam	Section I or Section VIII Div. 1 + PG-59 thru 61 of S-I	Section I or Section VIII Div. 1	VESSEL	Prov. QP : S-I or S-VIII as applicable, or "U" or "S" Designator	"U" or "S" Designator	AB-25 for S-VIII AB-26 for S-I or ASME forms and signed off by A.I.	applicable ASME forms and signed off by A.I. & NB registered
Direct Fired Liquid Heater	One submission: fixed sizes & P/T rating	Glycol, Glycol/Water Mixtures, Water	Section I or Section IV	Section I or Section IV	BOILER	Prov. QP : S-I or S-IV as applicable, or applicable ASME Designator	applicable ASME Designator (for boilers)	AB-26 for S-I /S-IV or applicable ASME forms and signed off by A.I.	applicable ASME forms and signed off by A.I. & NB registered
Indirect Fired Heater (In-Line Heaters)	One submission: one size & multiple P/T ratings	Process Gas/Liquid NOT for Glycol, Glycol&Water mixtures, Water or Steam	B31.3 or Section VIII, Div. 1 (outside Canada only)	B31.3 or Section VIII, Div. 1 (outside Canada only)	VESSEL	Prov. QP : B31.3 for indirect fired heaters or S-VIII or "U" Designator	"U" Designator or QC System acceptable to A.I.	AB-28 signed off by A.I. or ASME forms signed off by A.I.	AB-28 signed off by A.I. or ASME forms signed off by A.I.
Heating Coil installed in HVAC	One submission: different sizes & usually same P/T rating	Hot Thermal Liquid / Hot Water	B31.9 or B31.3	B31.9 or B31.3	Per IB16 - 007	Prov. QP : B31.9 or B31.3 or Fitting Categ. "H"	QC System acceptable to ABSA	Per Prov. QP	Per QC System
Heating Coil installed in atmospheric Tanks/enclosure	different sizes & P/T ratings	Steam / Hot Thermal Liquid / Hot Water	B31.3	B31.3	Per IB16 - 007	Prov. QP : B31.3 or Fitting Categ. "H"	QC System acceptable to ABSA	Per Prov. QP	Per QC System
Heating Coil installed in Pressure Vessels	One submission: one size & one set of P/T rating	Steam / Hot Thermal Liquid / Hot Water	Section VIII, Div. 1	Section VIII, Div. 1	Per IB16 - 006	Prov. QP : S-VIII or "U" Designator	"U" Designator	AB-25 - Partial or ASME forms and signed off by A.I.	ASME forms and signed off by A.I.

## REGISTRATION REQUIREMENTS:

In addition to the design registration requirements as presented on ABSA's web-site, the following info must be presented on the registration drawing(s):

- 1) Identify/name the coil type in strict conformance with the above coil types. The submitter is responsible to use the appropriate coil identification that will correspond to the coil actual service.
- 2) For Direct Fired Thermal Liquid Heaters fabricated in accordance with ASME Section VIII, Div. 1 the following note must appear on the drawing and Data Report: "The installation of this equipment must be in compliance with the requirements for instrumentation and controls of part PG and PGV of ASME Section I."

## **NOTATIONS & ABREVIATIONS:**

- Section I or S-I, Section VIII, Div.1 or S-VIII, B31.1, B31.3 represent the corresponding ASME Codes and must be the current Edition & Addenda;
- Prov. QP: Provincial Quality Program for the scope of work, e.g.: Prov. QP S-VIII means a Quality Program to fabricate pressure vessels in accordance with ASME Section VIII, Div. 1
- "U" or "S" Designator: Quality Control System accredited by the ASME and having the Certificate of Authorization to use the "ASME" Certification Mark and "U" or "S" Designator
- A.I. (Authorized Inspector): must be either a Provincial Authorized Inspector or a National Board commissioned Authorized Inspector ("A" endorsement min.) employed by a third party accredited agency; If ASME forms are used, then the forms must be registered with the National Board

## ABSA FORMS

- Please note that the AB-83 must be signed off by Mfr's QC representative and the Owner's QC representative.
- Please note that the rest of AB forms: AB-25, AB-26, AB-28, and AB83F must be signed off by the A.I.