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Respected Sir or Madam,

ABM INDUSTRIAL SERVICES INC., provides services all across Canada in the field of Professional Engineer (Certifying Engineer) & CRN Registration of Boilers and Pressure Vessels design, Pressure Fittings design, Pressure Piping design registration for Plant, Alteration & Re-rate CRN Registration of Pressure Equipment in Conventional Industries as per of Canadian Standard CSA B51 & Provincial Boiler and Pressure Vessel Acts & Regulations., CRN Registration of Nuclear components & system as per Annex C of CSA N285.0-08/12 for Nuclear Industries.

The founder of the firm is a professional engineer with over 25 years of working experience in Engineering, Design, Construction, Technical Services, Quality Assurance, Quality Control, Welding Engineering, Utility Services, NDE Areas & Post Construction in Canadian Province of Ontario (TSSA), Province of Saskatchewan (TSASK) as well as ASME Boiler and Pressure Vessel Code Industrial Construction and Project Management in Province of Alberta, Canada for Conventional Power Plant, Refinery, Oil & Gas, Chemical & Mining Industries, Agriculture Industries, Auto Industries, Refrigeration Industries, Transport Industries and Nuclear Power Plant in Canada & committed to meet customer expectations.

*** Our Services**

CRN Registration for Boilers & Pressure Vessels, Fittings, Nuclear Components & system Design for U, U2, U3, S, T, H, RP, N, NPT as per ASME BPVC Section I, III Div.1, III Div.5, IV, Section VIII, Div.1, Div.2, Div.3, ASME BPVC Section X, XII, Alteration & Re-rate of Boilers & Pressure Vessels for R STAMP as per NBIC NB-23 & ASME B31.1, B31.3 & B31.5 Piping Design Registration in Conventional Power Plant, Refinery, Oil & Gas, Refrigeration, Chemical & Mining Industries & Nuclear Power Plant

- Professional Engineer (Certifying Engineer) Certification of Pressure Equipment design under provision of Mandatory Appendix 47 of ASME BPVC Section VIII Div.1, 2023
- CRN Registration of Boilers and Pressure Vessels Design **All across Canada** as per ASME BPVC Section I, ASME BPVC Section IV, ASME BPVC Section VIII Div. 1, Div.2, Div.3, ASME BPVC Section X, XII, CSA B51, Provincial Boiler & Pressure Vessel Act & Regulation. (To help Owner, Designer & Manufacturer for getting Canadian Registration Number All across Canadian Provinces)
- CRN Registration of ASME BPVC Section III Div.1, Div.5 (Nuclear components & system) Design as per Annex C of CSA N285.0-08/12/17 for Nuclear power plant.
- CRN Registration of Fittings Design for **All across Canada** as per Provincial Boiler & Pressure Vessel Act & Regulation, CSA B51 & CSA N285.0-08/12 requirements.
- Piping Design Registration as per ASME B31.1, ASME B 31.3, ASME B31.5 & CSA B51 **All across Canada.**
- Re-rate/Alteration/Fitness for Service, Design Registration of Pressure Equipment as per National Board NB-23/API-579-1 and Boiler & Pressure Vessel Act & Regulation **All across** Canadian Provinces.
- Registration of ASME BPVC Section IX, WPS/PQR/WPQ & Standard Welding Procedure specifications with all Canadian Jurisdictions, Preparation of Quality Control & Quality Assurance Manual for ASME Code Stamp Shops, CSA B51 Shops & CSA N285.0 Shops.



**Professional Engineers
Ontario**

"Authorized by the Association of Professional Engineers of Ontario to offer professional engineering services"

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A **CRN** meaning **Canadian Registration Number** is a unique number system assigned to Boilers, Pressure Vessels, Heat Exchanger, Pressure Piping systems and fittings after designs and specifications that are accepted and registered by the regulatory authority. If your pressure equipment design at a pressure (MAWP) **greater than 15 psig**, you may very well require to have a Canadian Registration Number to **legally install and operate in Canada**.

The Canadian Registration Number will be stamped on an ASME name plate mounted on your equipment. Prior to first turning on, the local inspector will check if the equipment has a Canadian Registration Number before passing it for operation. CRN numbers are required to be stamped on equipment or, in the case of very small fittings, traceable with other identification markings.

For any boiler, pressure vessel installed in a jurisdiction, the **original design** and **altered design** must have been registered by that jurisdiction before the **construction**.

- Each and every provinces and territories, known as jurisdictions, use the CRN system.
- The CRN is based under the **CSA B51**, however, every jurisdictions can add their own exemptions, or other specific rules.
- **CSA B51** is Canadian Boiler, Pressure Vessel, and Pressure Piping code.
- **CSA B51** is a more stringent set of code specific to Boiler, pressure vessel, fittings and piping systems in Canada.
- **CRN design review** occurs **prior to construction and prior to use**.
- There can be instances where a CRN design review **does not happen prior to construction**. For this to happen, it will require **special permission** with the jurisdiction to review design where the Pressure Equipment will be installed.
- CRN registration is required for every jurisdiction where this equipment is used.
- After registration, the design can be produced under that CRN.

In Canada provinces and territories are 13

- British Columbia – 1
- Alberta – 2
- Saskatchewan – 3
- Manitoba – 4
- Ontario – 5
- Quebec – 6
- New Brunswick – 7
- Nova Scotia – 8
- Prince Edward Island – 9
- Newfoundland & Labrador – 0
- Northwest Territories – T
- Yukon – Y
- Nunavut – N
- Canada Wide (every jurisdictions) – C

The CRN format is an initial letter followed by digits, a period, and the next digit specifying the province of first registration. Following digits shows that design is registered in other provinces.

For example, XYZ is a company who manufactures pressure vessels and they want to register a new design.

- If the design is first registered in Ontario and allotted the registration number **K4567** will be registered as CRN **K4567.5**. If this design is subsequently registered in Alberta, the CRN will be **K4567.52**; and if afterwards the design is registered in Manitoba, the CRN will be **K4567.524**.
- If a design is registered all provinces & territories, the CRN stamped on nameplate and marked on the data report may be shortened to include the designation of first registration plus the letter "C", e.g., **K4567.5C**.
- If a design is registered in all provinces & territories that require registration but not in provinces and territories that do not require registration, the CRN may be shortened to include the designation of first registration plus the letters "CL", e.g. **K4567.5CL**. (The "L" means limited.)