

INTRODUCTION TO JURISDICTIONAL REQUIREMENTS FOR PRESSURE BOUNDARIES

OBJECTIVE:

This course is a basic course designed to introduce participants to the Canadian Federal Laws and Regulations as they apply to the Pressure Boundary of Nuclear Power Plants. It provides an understanding of these laws and their relationship to the concept and role of Code Classification. The course covers the structure and content of the Canadian Standards and their relationship to the ASME Codes on Pressure Boundary.

CONTENTS: A one day course consisting of the following:

- Why Codes and Standards are required in the nuclear industry
- The Nuclear Safety Control Act and the role of the Canadian Nuclear Safety Commission (CNSC)
- Third party inspection and the role of the Technical Standards and Safety Authority (TSSA)
- The CSA N285 Series of Standards on the CANDU Pressure Boundary
- Relationship between Canadian Standards for Nuclear Power Plants and the ASME Codes and Standards.
- Basic structure of the ASME Code on Nuclear Power, Section III
- Basic structure of other Pressure Boundary Standards, CSA B51, ASME Section VIII and ASME B31.1
- Role of Quality Assurance and the programs associated with Pressure Boundary components

WHO SHOULD ATTEND?

This course will be of interest to personnel in the many roles and disciplines of the Nuclear Power Plant industry. It is particularly useful as introductory training for personnel at most levels who are entering the nuclear industry. This course is very useful for people requiring an introductory understanding of the relationships between the Codes and Standards and the legal requirements to meet the needs of their position. Personnel who interact in various ways with the Pressure Boundary of a CANDU Nuclear Power Plant and who require an understanding of the importance of the different Code classes have found this course to be very useful. The course has been offered many times at the Canadian Nuclear Utilities to introduce participants to the above concepts.

EXPECTATION:

At the completion of this training session the participants will have attained the skills to:

1. Have a working knowledge of the Codes and Standards associated with the construction, installation and operation of Pressure Boundary systems and items for use at the Nuclear Power Plant.
2. Define and understand the term Pressure Boundary
3. Define the role of the Regulator and the Authorized Nuclear Inspector
4. Define the term Department as it is used in the CSA Standard
5. Identify the key documents required by the Department for the purpose of Design
6. Explain how the various books of ASME Section III are compiled
7. Identify and explain the relationship of the various Codes and Standards used in CANDU Pressure Boundary application (ASME and CSA).