APPENDIX 3

## TABLE 1

## APPLICABLE CODES AND STANDARDS (CANADIAN STANDARDS ASSOCIATION)

| DOCUMENT NUMBER | TITLE |
|---|---|
| CAN3-N285.0-M81+ | General Requirements for Pressure-Retaining Systems and Components in CANDU Nuclear Power Plants |
| CAN3-N285.1-M81 | Requirements for Class 1, 2 and 3 Pressure-Retaining Systems and Components in CANDU Nuclear Power Plants |
| CAN/CSA-N285.2-M89 | Requirements for Class 1c, 2c and 3c Pressure-Retaining Components and Supports in CANDU Nuclear Power Plants |
| CAN/CSA-N285.3-88 | Requirements for Containment Systems Components in CANDU Nuclear Power Plants |
| CAN3-N285.4-M83 | Periodic Inspection of CANDU Nuclear Power Plant Components |
| CSA-N285.5-M87* | Periodic Inspection of CANDU Nuclear Power Plant Containment Components |
| CAN/CSA-N285.6 Series-88 | Material Standards for Reactor Components for CANDU Nuclear Power Plants |
| CAN3-N286.0-82 | Quality Assurance Program Requirements for Nuclear Power Plants |
| CAN3-N286.1-84 | Procurement Quality Assurance for Nuclear Power Plants |
| CAN3-N286.2-86 | Design Quality Assurance for Nuclear Power Plants |
| CAN3-N286.3-83 | Construction Quality Assurance for Nuclear Power Plants |
| CAN/CSA-N286.4-M86 | Commissioning Quality Assurance for Nuclear Power Plants |
| CAN/CSA-N286.5-M87 | Operation Quality Assurance for Nuclear Power Plants |
| CAN3-N287.1-M82 | General Requirements for Concrete Containment Structures for CANDU Nuclear Power Plants |
| CAN3-N287.2-M82 | Material Requirements for Concrete Containment Structures for CANDU Nuclear Power Plants |
| CAN3-N287.3-M82 | Design Requirements for Concrete Containment Structures for CANDU Nuclear Power Plants |
| CAN3-N287.4-M83 | Construction, Fabrication and Installation Requirements for Concrete Containment Structure for CANDU Nuclear Power Plants |

+ See note following Table 1.

* Preliminary standard.

**TABLE 1 (Continued)**

| DOCUMENT NUMBER | TITLE |
|---|---|
| CAN3-N287.5-M81 | Testing and Examination Requirements for Concrete Containment Structures for CANDU Nuclear Power Plants |
| CAN3-N287.6-M80 | Pre-Operational Proof and Leakage Rate Testing Requirements for Concrete Containment Structures for CANDU Nuclear Plants |
| CAN3-N287.7-M80 | In-Service Examination and Testing Requirements for Concrete Containment Structures for CANDU Nuclear Power Plants |
| CAN/CSA-N288.1-M87 | Guidelines for Calculating Derived Release Limits for Radioactive Material in Airborne and Liquid Effluents for Normal Operation of Nuclear Facilities |
| CAN3-N288.3.2-M85 | High Efficiency Air-Cleaning Assemblies for Normal Operation of Nuclear Facilities |
| CAN3-N289.1-80 | General Requirements for Seismic Qualification of CANDU Nuclear Power Plants |
| CAN3-N289.2-M81 | Ground Motion Determination for Seismic Qualification of CANDU Nuclear Power Plants |
| CAN3-N289.3-M81 | Design Procedures for Seismic Qualification for CANDU Nuclear Power Plants |
| CSA-N289.4-M86 | Testing Procedures for Seismic Qualification of CANDU Nuclear Power Plants |
| CAN3-N290.1-80 | Requirements for the Shutdown Systems of CANDU Nuclear Power Plants |
| CAN3-N290.4-M82 | Requirements for the Reactor Regulating Systems of CANDU Nuclear Power Plants |
| CAN3-N290.6-M82 | Requirements for Monitoring and Display of the CANDU Nuclear Power Plant Status in the Event of an Accident |
| CAN/CSA-N293-M87 | Fire Protection for CANDU Nuclear Power Plants |
| CAN3-Z299.1-85 | Quality Assurance Program - Category 1 |
| CAN3-Z299.2-85 | Quality Assurance Program - Category 2 |
| CAN3-Z299.3-85 | Quality Assurance Program - Category 3 |
| CAN3-Z299.4-85 | Quality Assurance Program - Category 4 |

## + NOTE FOR TABLE 1

The CSA N285 Standards call up the following additional standards:

1. ASME Boiler and Pressure Vessel Code

| | |
|---|---|
| Section III, Div. 1 | Nuclear Power Plant Components |
| Section V | Nondestructive Examination |
| Section IX | Welding and Brazing Qualifications |

2. CGSB Standards

| | |
|---|---|
| 48-GP-4M | Certification of Nondestructive Testing Personnel (Radiography) |
| 48-GP-7M | Certification of Nondestructive Testing Personnel (Ultrasonic) |
| 48-GP-8M | Certification of Nondestructive Testing Personnel (Magnetic Particle) |
| 48-GP-9M | Certification of Nondestructive Testing Personnel (Liquid Penetrant) |
| 48-GP-13M | Certification of Nondestructive Testing Personnel (Eddy Current) |

3. CSA B51
   Code for the Construction and Inspection of Boilers and Pressure Vessels
   In addition, CSA Standard B51 calls up the following additional standards applicable to nuclear generating station design:

- ASME Boiler and Pressure Vessel Code

| | |
|---|---|
| Section II | Material Specifications |
| Section VIII | Unfired Pressure Vessels |

- ANSI B31.1
  Power Piping

TABLE 3

LIST OF SAFETY DESIGN GUIDES

| DESIGN GUIDE | TITLE |
|---|---|
| SDG-001 | Safety-Related Systems |
| SDG-002 | Common-Mode Incidents |
| SDG-003 | Equipment Qualification |
| SDG-004 | System Grouping |
| SDG-005 | Equipment Separation |
| SDG-006 | Containment Envelope Extensions |
| SDG-007 | Fire Protection Program |
| SDG-008 | Postulated Initiating Events |
| SDG-010 | ASME Code Classification |
| SDG-011 | Quality Assurance Level Classification |
| SDG-012 | Periodic Inspection |
| SDG-013 | Radiation Protection |
| SDG-014 | Reliability Methodology |
| SDG-016 | Internally Generated Missiles |
| SDG-020 | Reactor Shutdown |
| SDG-021 | Residual Heat Removal |
| SDG-022 | Containment |
| SDG-023 | Support Systems |