

**Table 1: DCD Table of Contents Differences from USNRC Standard Review Plan**

USNRC Standard Review Plan		DCD Table of Contents		Reason
Section #	Title	Section #	Title	
2.2.1 – 2.2.2	Identification of Potential Hazards in Site Vicinity	2.2 2.2.1 2.2.2	Nearby Industrial, Transportation, and Military Facilities Location and Routes Description	Used more specific sections/titles to address this SRP.
3.6.1	Plant Design for Protection Against Postulated Piping Failures in Fluid Systems Outside Containment	3.6 3.6.1 3.6.3	Protection Against the Dynamic Effects Associated with the Postulated Rupture of Piping Postulated Piping Failures in Fluid Systems Inside and Outside Containment Leak-Before-Break Evaluation	Used more specific sections/titles to address this SRP (same structure as AP1000).
5.3.1	Reactor Vessel Materials	5.3.2	Materials for Fuel Channel and Fuelling Machine (F/M) Head Assemblies	Added a new section upfront (i.e., Section 5.3.1) to describe the fuel channels and fuelling machine head assembly. SRP 5.3.1 is addressed under Section 5.3.2
5.3.2	Pressure-Temperature Limits and Pressurized Thermal Shock	5.3.3	Pressure-Temperature Limits and Pressurized Thermal Shock	Added a new section upfront (i.e., Section 5.3.1) to describe the fuel channels and fuelling machine head assembly. SRP 5.3.2 is addressed under Section 5.3.3.
5.3.3	Reactor Vessel Integrity	5.3.4	Integrity of Fuel Channels, Fuelling Machine (F/M) Head and Supports	Added a new section upfront (i.e., Section 5.3.1) to describe the fuel channels and fuelling machine head assembly. SRP 5.3.3 is addressed under Section 5.3.4.

USNRC Standard Review Plan		DCD Table of Contents		Reason
Section #	Title	Section #	Title	
5.4.2.1	Steam Generator Materials	5.4.2.3	Steam Generator Materials	Inserted two subsections at the beginning of Section 5.4.2 (i.e., subsection 5.4.2.1 is “Design Bases” and 5.4.2.2 is “Design Description”) to be consistent with other RCPB components (e.g. heat transport pumps, etc.). This structure was also adopted by AP1000.
5.4.2.2	Steam Generator In-service Inspection	5.4.2.5	Steam Generator In-service Inspection	Inserted two subsections at the beginning of Section 5.4.2 (i.e., subsection 5.4.2.1 is “Design Bases” and 5.4.2.2 is “Design Description”) to be consistent with other RCPB components (e.g. heat transport pumps, etc.). This structure was also adopted by AP1000.
5.4.11	Pressurizer Relief Tank	5.4.10.3.2	Bleed Condenser	Covered under Section 5.4.10.3.2. Part of Pressure and Inventory Control System (Section 5.4.10).
5.4.7	Residual Heat Removal (RHR) System	5.4.7	Long Term Cooling System	Different system name.
6.2.1.2	Subcompartment Analysis	6.2.1.2 6.2.1.2.3	Containment Subcompartments Containment Subcompartment Design Evaluation	Covered under Section 6.2.1.2.3. Used more detailed section breakdown to address this SRP.
6.2.1.4	Mass and Energy Releases Analyses for Postulated Secondary System Pipe Ruptures	6.2.1.4	Mass and Energy Releases Analyses for Postulated Secondary System Pipe Ruptures Inside Containment	Added “... Inside Containment”.

USNRC Standard Review Plan		DCD Table of Contents		Reason
Section #	Title	Section #	Title	
6.5.2	Containment Spray as a Fission Product Cleanup System	6.5.2	Other ESF Filtration Systems (if necessary)	The fission product cleanup/control systems specified in these SRPs are not the same in ACR.
6.5.3	Fission Product Control Systems and Structures			
6.5.4	Ice Condenser as a Fission Product Cleanup System			
6.5.5	Pressure Suppression Pool as a Fission Product Cleanup System			
9.2.1	Station Service Water System	9.2.1	Raw Service Water System	Different system name.
9.2.2	Reactor Auxiliary Cooling Water Systems	9.2.2	Recirculated Cooling Water System	Different system name.
9.2.4	Potable and Sanitary Water Systems	9.2.4	Domestic Water System	Different system name.
9.2.6	Condensate Storage System	9.2.6	Condensate Make-up and Reject System (Reserve Feedwater Storage Tank)	Different system name.
9.4.3	Auxiliary and Radwaste Area Ventilation System	9.4.3	Service and Maintenance Building HVAC System	Radwaste area is located in the Maintenance Building.
10.4.6	Condensate Cleanup System	10.4.6	Condensate Polishing System	Different system name.
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Radiation Monitoring and Sampling Systems	Different system name.

USNRC Standard Review Plan		DCD Table of Contents		Reason
Section #	Title	Section #	Title	
12.3 – 12.4	Radiation Protection Design Features	12.3 12.4	Radiation Protection Design Features Dose Assessment	Used more specific sections/titles to address this SRP.
13.1.2–13.1.3 13.2.1 13.2.2	Operating Organization Reactor Operator Training Training For Non-Licensed Plant Staff	13.1.1	Combined Licence Information Item	These are covered by COL applicant. Same structure as AP1000.
13.5.1.1 13.5.1.2 13.5.2.1 13.5.2.2	Administrative Procedure – General Administrative Procedure – Initial Test Program Operating and Emergency Operating Procedures Maintenance and Other Operating Procedures	13.5.1	Combined Licence Information Item	These are covered by COL applicant. Same structure as AP1000.
14.2	Initial Plant Test Program – Final Safety Analysis Report	14.2	Specific Information to be Included in Standard Safety Analysis Report	Different section title but SRP 14.2 will be addressed in this section (same structure as AP1000).
14.3	Inspections, Tests, Analyses, and Acceptance Criteria – Design Certification	14.3	Certified Design Material	Different section title but all SRPs under Section 14.3 will be addressed in this section (same structure as AP1000).
Chapter 15	Accident Analysis			Chapter organization follows CANDU safety analyses report style. Roadmap to the specific SRPs will be provided in Section 15.0 of the DCD.

USNRC Standard Review Plan		DCD Table of Contents		Reason
Section #	Title	Section #	Title	
Chapter 19	Severe Accidents			More detailed section breakdown has been provided to cover the subject content.

**Table 2: New DCD Sections Specific to ACR**

<b>Section #</b>	<b>Section Title</b>
5.3.1	Fuel Channels and Fuelling Machine Head Design
5.4.10	Pressure and Inventory Control System
5.4.11	Heat Transport Purification System
5.4.13	Heat Transport Pump Seal Cooling System
6.8	Shutdown Systems
6.8.1	Shutdown System No. 1
6.8.2	Shutdown System No. 2
7.10	Fuel Handling Control System
3.9.9	Calandria Shell and End Shield Assembly
3.9.10	Fuelling Machine
9.2.7	Reserve Water System
9.3.6	Annulus Gas System
9.3.7	Shield Cooling System
9.3.8	Resin Transfer System
9.3.9	Deuteration and Dedeuteration System
9.3.10	Gas Control System
9.4.9	Secondary Control Building HVAC System
9.5.9	Crane and Hoists – Reactor Building
9.6	Moderator Systems
9.7	Heavy Water Management
9.8	Light Water Management
10.4.10	Auxiliary Steam System
10.4.11	Chemical Injection System
10.4.12	Sampling System