

mPower™ Design-Specific Review Standard Scope and Safety Review Matrix

This DSRS Matrix is applicable to an mPower™ design-related DC, COL, or ESP application under 10 CFR Part 52.

NUREG-0800 SRP/DSRS Section No.	NUREG-0800 SRP/DSRS Section Title	ADAMS Accession No. (ML Number) ¹	Primary Review Branch ²	Secondary Review Branch(es)	Applicability of NUREG-0800 Section to mPower™ Design ³	Comments/Additional Guidance Documents to be used for Review, etc. ⁴
INTRO P1	NUREG-0800 Introduction (Part 1)	ML070630046	DARR-SMRLB1	All review organizations	A) Use SRP Section “as-is” (minor comments, if applicable)	
INTRO P2	NUREG-0800 Introduction Part 2: Integral Pressurized Water Reactors Edition	ML12142A237	DARR-SMRLB1	All review organizations	A) Use SRP Section “as-is” (minor comments, if applicable)	<i>New SRP Section in the process of initial issuance.</i>
1.0	Introduction and Interfaces	ML112730393	DARR-SMRLB1	All review organizations	A) Use SRP Section “as-is” (minor comments, if applicable)	
2.0	Site Characteristics and Site Parameters	ML070400364	DARR-SMRLB1	All DSRS Chapter 2 review organizations	A) Use SRP Section “as-is” (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>

¹ This column provides the public accession number for each applicable section in the NRC’s Agencywide Documents Access and Management System (ADAMS).

² The column labeled “Primary Review Branch” identifies the branch responsible for review and development of an SER section, while that labeled “Secondary Review Branch” identifies review areas in which the designated branch contributes to an SER.

³ This column shows the staff’s determination of the applicability of each section to the mPower™ design. The staff developed four categories to address the determination for each SRP section. The staff concluded that all of the sections could be categorized by one of the following criteria:

- A) Use SRP Section “as-is” (minor comments, if applicable) - the NUREG-0800 SRP section was applicable to the mPower™ review and would be used as-is (minor comments are noted in the “Comments/Additional Guidance” column of the matrix, if applicable);
- B) Delete SRP Section for mPower review (N/A) - the NUREG-0800 SRP section was not applicable and will not be used for the mPower™ review;
- C) Modify SRP Section for DSRS - the NUREG-0800 SRP section needed modification, so the section was revised and reissued as a DSRS section for the mPower™ review; or,
- D) Develop new DSRS Section - a new section was needed due to a unique design consideration (new sections were also developed for Chapter 7, Instrumentation and Controls, due to a staff initiative to pilot a more streamlined review for the mPower™ design).

⁴ Comments in this column are noted by italicized font.

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2.1.1	Site Location and Description	ML070550023	DSEA-RPAC		A) Use SRP Section “as-is” (minor comments, if applicable)	
2.1.2	Exclusion Area Authority and Control	ML070550024	DSEA-RPAC		A) Use SRP Section “as-is” (minor comments, if applicable)	
2.1.3	Population Distribution	ML070550028	DSEA-RPAC	NSIR-DPR-DDEP-NRLB	A) Use SRP Section “as-is” (minor comments, if applicable)	
2.2.1 - 2.2.2	Identification of Potential Hazards in Site Vicinity	ML070460330	DSEA-RPAC		A) Use SRP Section “as-is” (minor comments, if applicable)	
2.2.3	Evaluation of Potential Accidents	ML070460336	DSEA-RPAC		A) Use SRP Section “as-is” (minor comments, if applicable)	
2.3.1	Regional Climatology	ML063600393	DSEA-RHMB		A) Use SRP Section “as-is” (minor comments, if applicable)	
2.3.2	Local Meteorology	ML070730395	DSEA-RHMB		A) Use SRP Section “as-is” (minor comments, if applicable)	

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2.3.3	Onsite Meteorological Measurements Programs	ML063600394	DSEA-RHMB	NSIR-DPR-DDEP-NRLB	A) Use SRP Section “as-is” (minor comments, if applicable)	
2.3.4	Short Term Dispersion Estimates for Accidental Atmospheric Releases	ML070730398	DSEA-RHMB		A) Use SRP Section “as-is” (minor comments, if applicable)	
2.3.5	Long-Term Atmospheric Dispersion Estimates for Routine Releases	ML070730713	DSEA-RHMB		A) Use SRP Section “as-is” (minor comments, if applicable)	
2.4.0	Hydrology Review	ML12355A691	DSEA-RHMB		D) Develop new DSRS Section ⁵	
2.4.1	Hydrologic Description	ML12221A023	DSEA-RHMB		C) Modify SRP Section for DSRS ⁶	
2.4.2	Floods	ML12221A024	DSEA-RHMB		C) Modify SRP Section for DSRS	
2.4.3	Probable Maximum Flood (PMF) on Streams and Rivers	ML12221A025	DSEA-RHMB	DSRS-SPRA	C) Modify SRP Section for DSRS	
2.4.4	Potential Dam Failures	ML12221A026	DSEA-RHMB	DSEA-RGS	C) Modify SRP Section for DSRS	
2.4.5	Probable Maximum Surge and Seiche Flooding	ML12221A027	DSEA-RHMB	DSEA-RGS	C) Modify SRP Section for DSRS	
2.4.6	Probable Maximum Tsunami Flooding	ML12221A028	DSEA-RHMB	DSEA-RGS	C) Modify SRP Section for DSRS	

⁵ New DSRS sections are inserted as new rows in this Matrix under the appropriate chapter and given a new section number not already used in NUREG-0800.

⁶ DSRS sections modified from NUREG-0800 sections are given the same section number as the NUREG-0800 section from which it came.

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2.4.7	Ice Effects	ML12221A017	DSEA-RHMB		C) Modify SRP Section for DSRS	
2.4.8	Cooling Water Canals and Reservoirs	ML070730431	DSEA-RHMB		A) Use SRP Section "as-is" (minor comments, if applicable)	
2.4.9	Channel Diversions	ML12221A018	DSEA-RHMB		C) Modify SRP Section for DSRS	
2.4.10	Flooding Protection Requirements	ML12221A019	DSEA-RHMB	DE-SEB	C) Modify SRP Section for DSRS	
2.4.11	Low Water Considerations	ML070730439	DSEA-RHMB		A) Use SRP Section "as-is" (minor comments, if applicable)	
2.4.12	Groundwater	ML12221A020	DSEA-RHMB	DE-SEB	C) Modify SRP Section for DSRS	
2.4.13	Accidental Releases of Radioactive Liquid Effluents in Ground and Surface Waters	ML12221A021	DSEA-RHMB	DSEA-RGS	C) Modify SRP Section for DSRS	
2.4.14	Technical Specifications and Emergency Operation Requirements	ML12221A022	DSEA-RHMB	DSEA-RPAC	C) Modify SRP Section for DSRS	
2.5.1	Basic Geologic and Seismic Information	ML070730464	DSEA-RGS		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
2.5.2	Vibratory Ground Motion	ML070730593	DSEA-RGS		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>

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2.5.3	Surface Faulting	ML070730597	DSEA-RGS		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
2.5.4	Stability of Subsurface Materials and Foundations	ML100610449	DSEA-RGS		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
2.5.5	Stability of Slopes	ML100610529	DSEA-RGS		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
3.2.1	Seismic Classification	ML12272A013	DE-EMB	DE-CIB	C) Modify SRP Section for DSRS	
3.2.2	System Quality Group Classification	ML12272A015	DE-EMB	DE-CIB	C) Modify SRP Section for DSRS	
3.3.1	Severe Wind Loading	ML12324A156	DE-SEB		C) Modify SRP Section for DSRS	<i>This section was formerly entitled "Wind Loads."</i>
3.3.2	Extreme Wind Loads (Tornado and Hurricane Loads)	ML12324A166	DE-SEB		C) Modify SRP Section for DSRS	<i>This section was formerly entitled "Tornado Loads."</i>
3.4.1	Internal Flood Protection for Onsite Equipment Failure	ML12312A148	DSRA-BPFP DSRA-BPTS	DSEA-RHMB	C) Modify SRP Section for DSRS	
3.4.2	Protection of Structures Against Flood From External Sources	ML12324A190	DE-SEB		C) Modify SRP Section for DSRS	<i>This section was formerly entitled "Analysis Procedures."</i>
3.5.1.1	Internally Generated Missiles (Outside Containment)	ML12313A158	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	

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3.5.1.2	Internally Generated Missiles (Inside Containment)	ML12313A396	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
3.5.1.3	Turbine Missiles	ML12272A209	DE-CIB	DE-SEB	C) Modify SRP Section for DSRS	
3.5.1.4	Missiles Generated by Extreme Winds	ML12313A399	DSRA-BPFP DSRA-BPTS	DSEA-RHMB	C) Modify SRP Section for DSRS	<i>This section was formerly entitled "Missiles Generated by Tornadoes and Extreme Winds."</i>
3.5.1.5	Site Proximity Missiles (Except Aircraft)	ML12318A151	DSEA -RPAC	DSRA-BPFP DSRA-BPTS	C) Modify SRP Section for DSRS	
3.5.1.6	Aircraft Hazards	ML12318A198	DSEA-RPAC		C) Modify SRP Section for DSRS	
3.5.2	Structures, Systems, and Components To Be Protected From Externally Generated Missiles	ML12313A457	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
3.5.3	Barrier Design Procedures	ML12222A003	DE-SEB		C) Modify SRP Section for DSRS	
3.6.1	Plant Design for Protection Against Postulated Piping Failures in Fluid Systems Outside Containment	ML070550032	DSRA-BPFP DSRA-BPTS		A) Use SRP Section "as-is" (minor comments, if applicable)	Replace this first sentence of "AREAS OF REVIEW" with the following: The plant design for protection against piping failures outside containment is reviewed to ensure that environmental effects of such failures would not cause the loss of needed functions of safety-related or risk-significant

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						<p>systems and to ensure that the plant could be safely shut down in the event of such failures.</p> <p>An SSC may be classified as:</p> <ol style="list-style-type: none"> 1. Safety-related risk-significant 2. Safety-related non-risk-significant 3. Non safety-related risk-significant 4. Nonsafety-related non-risk-significant <p>The mPower™ application will include the classification of SSCs, a list of risk-significant SSCs, and a list of RTNSS equipment.</p> <p>Based on this information, the staff will review according to DSRS Section 3.2, SRP Sections 17.4 and 19.3 to confirm the determination of the safety-related and risk-significant SSCs. If the SSC belongs in the first two classifications above or if it is determined as part of the</p>

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						SRP 19.3 “Augmented Design Standard” review that the SSC is RTNSS “B”, the review described in this DSRS Section is applied. For the purpose of brevity in this section, the first two categories above and the RTNSS “B” SSCs will be designated as “SSCs subject to protection against piping failures outside containment.”
3.6.2	Determination of Rupture Locations and Dynamic Effects Associated with the Postulated Rupture of Piping	ML12230A013	DE-EMB		C) Modify SRP Section for DSRS	
3.6.3	Leak-Before-Break Evaluation Procedures		DE-CIB	DSRA-BPFP DSRA-BPTS	B) Delete SRP Section for mPower review (N/A)	
3.7.1	Seismic Design Parameters	ML13099A204	DE-SEB		C) Modify SRP Section for DSRS	
3.7.2	Seismic System Analysis	ML13099A205	DE-SEB		C) Modify SRP Section for DSRS	
3.7.3	Seismic Subsystem Analysis	ML13099A209	DE-SEB		C) Modify SRP Section for DSRS	
3.7.4	Seismic Instrumentation	ML070460349	DSEA-RGS		A) Use SRP Section “as-is” (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>

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3.8.1	Concrete Containment		DE-SEB		B) Delete SRP Section for mPower review (N/A)	
3.8.2	Steel Containment	ML13099A298	DE-SEB		C) Modify SRP Section for DSRS	
3.8.3	Concrete and Steel Internal Structures of Steel Containments	ML13099A312	DE-SEB		C) Modify SRP Section for DSRS	
3.8.4	Other Seismic Category I Structures	ML13099A316	DE-SEB		C) Modify SRP Section for DSRS	
3.8.5	Foundations	ML13099A319	DE-SEB		C) Modify SRP Section for DSRS	
3.9.1	Special Topics for Mechanical Components	ML12272A018	DE-EMB		C) Modify SRP Section for DSRS	
3.9.2	Dynamic Testing and Analysis of Systems, Components, and Equipment	ML070230008	DE-EMB	DE-CIB	A) Use SRP Section "as-is" (minor comments, if applicable)	<p><i>SRP Section is in the process of an update.</i></p> <p>Additional considerations:</p> <ul style="list-style-type: none"> • ASME Code AG-1-1997 references should be replaced with ASME Code AG-1-2009. • GDC 4 of Acceptance Criteria should require SSCs be designed to accommodate the effects of and to be compatible with the environmental conditions associated with normal operation, maintenance, testing, and

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						postulated accidents, including loss-of-cooling accidents. • RG 1.20 provides guidance and not requirements. • DG-1163 has been replaced with RG 1.20.
3.9.3	ASME Code Class 1, 2, and 3 Components, Component Supports, and Core Support Structures	ML070430397	DE-EMB		A) Use SRP Section “as-is” (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i> Additional consideration: The applicants SAR should include the description of snubber operability assurance program requirements that the snubber manufacturer submits to the purchaser for review and acceptance per ASME OM, ISTD Code.
3.9.4	Control Rod Drive Systems	ML12272A020	DE-EMB		C) Modify SRP Section for DSRS	
3.9.5	Reactor Pressure Vessel Internals	ML12272A077	DE-EMB		C) Modify SRP Section for DSRS	
3.9.6	Functional Design, Qualification, and Inservice Testing Programs for Pumps, Valves, and Dynamic Restraints	ML12272A217	DE-CIB		C) Modify SRP Section for DSRS	

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3.9.7	Risk-Informed Inservice Testing of Pumps and Valves		DE-CIB	DSRA-SPRA	B) Delete SRP Section for mPower review (N/A)	
3.9.8	Risk-Informed Inservice Inspection of Piping		DE-CIB	DSRA-SPRA	B) Delete SRP Section for mPower review (N/A)	
3.10	Seismic and Dynamic Qualification of Mechanical and Electrical Equipment	ML070720037	DE-EMB	NRR-DE-EEEEB	A) Use SRP Section "as-is" (minor comments, if applicable)	<p><i>SRP Section is in the process of an update.</i></p> <p>Clarification of terminology SRP 3.10, page 3.10-4, number 3. replace with: "GDC 4 as it relates to qualifying equipment as capable of withstanding the environmental conditions associated with normal operation, maintenance, testing, and postulated accidents, including loss-of-coolant accidents (LOCAs), as well as dynamic effects (e.g., missiles, pipe whip, and jet impingement forces) that may result from equipment failures and from events and conditions outside the plant."</p>

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3.11	Environmental Qualification of Mechanical and Electrical Equipment	ML12277A018	NRR-DE-EEEEB	DE-CIB DE-ICE	C) Modify SRP Section for DSRS	
3.12	ASME Code Class 1, 2, and 3 Piping Systems and Associated Supports Design	ML070040002	DE-EMB		A) Use SRP Section “as-is” (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
3.13	Threaded Fasteners - ASME Code Class 1, 2, and 3	ML12272A214	DE-CIB		C) Modify SRP Section for DSRS	
BTP 3-1	Classification of Main Steam Components Other than the Reactor Coolant Pressure Boundary for BWR Plants (Former Section 3.2.2, Appendix A, BTP has been separated into an individual section.)		DE-EMB	DE-CIB	B) Delete SRP Section for mPower review (N/A)	

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BTP 3-2	Classification of BWR/6 Main Steam and Feedwater Components Other than the Reactor Coolant Pressure Boundary (Former Section 3.2.2, Appendix B, BTP has been separated into an individual section.)		DE-EMB	DE-CIB	B) Delete SRP Section for mPower review (N/A)	
BTP 3-3	Protection Against Postulated Piping Failures in Fluid Systems Outside Containment	ML070800027	DSRA-BPFP DSRA-BPTS		A) Use SRP Section "as-is" (minor comments, if applicable)	
BTP 3-4	Postulated Rupture Locations in Fluid System Piping Inside and Outside Containment	ML12272A102	DE-EMB		C) Modify SRP Section for DSRS	
4.2	Fuel System Design	ML12235A168	DSRA-SRSB		C) Modify SRP Section for DSRS	
4.3	Nuclear Design	ML12353A188	DSRA-SRSB		C) Modify SRP Section for DSRS	
4.4	Thermal and Hydraulic Design	ML12319A580	DSRA-SRSB		C) Modify SRP Section for DSRS	
4.5.1	Control Rod Drive Structural Materials	ML12326A740	DE-CIB		C) Modify SRP Section for DSRS	
4.5.2	Reactor Internal and Core Support Structure Materials	ML12272A006	DE-CIB		C) Modify SRP Section for DSRS	

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4.6	Functional Design of Control Rod Drive System	ML12353A182	DSRA-SRSB	DSRA-BPFP DSRA-BPTS	C) Modify SRP Section for DSRS	
BTP 4-1	Westinghouse Constant Axial Offset Control (CAOC)	ML070790015	DSRA-SRSB		A) Use SRP Section "as-is" (minor comments, if applicable)	
5.2.1.1	Compliance With the Codes and Standards Rule, 10 CFR 50.55a	ML12272A091	DE-EMB	DE-CIB	C) Modify SRP Section for DSRS	
5.2.1.2	Applicable Code Cases	ML12272A096	DE-EMB	DE-CIB	C) Modify SRP Section for DSRS	
5.2.2	Overpressure Protection		DSRA-SRSB		C) Modify SRP Section for DSRS	<i>This section to be released for public comment via separate FRN at a later date.</i>
5.2.3	Reactor Coolant Pressure Boundary Materials	ML12272A007	DE-CIB		C) Modify SRP Section for DSRS	
5.2.4	Reactor Coolant Pressure Boundary Inservice Inspection and Testing	ML070550066	DE-CIB		A) Use SRP Section "as-is" (minor comments, if applicable)	
5.2.5	Reactor Coolant Pressure Boundary Leakage Detection	ML12313A468	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
5.3.1	Reactor Vessel Materials	ML12272A008	DE-CIB		C) Modify SRP Section for DSRS	
5.3.2	Pressure-Temperature Limits, Upper-shelf Energy, and Pressurized Thermal Shock	ML12272A009	DE-CIB		C) Modify SRP Section for DSRS	

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5.3.3	Reactor Vessel Integrity	ML12272A010	DE-CIB		C) Modify SRP Section for DSRS	
5.4	Reactor Coolant System Components and Subsystem Design		DSRA-SRSB	Multiple as defined in the DSRS	C) Modify SRP Section for DSRS	<i>This section to be released for public comment via separate FRN at a later date.</i>
5.4.1.1	Pump Flywheel Integrity (PWR)	ML063600398	DE-CIB		A) Use SRP Section “as-is” (minor comments, if applicable)	
5.4.2.1	Steam Generator Materials	ML12272A244	DE-CIB		C) Modify SRP Section for DSRS	
5.4.2.2	Steam Generator Program	ML12272A245	DE-CIB		C) Modify SRP Section for DSRS	
5.4.6	Reactor Core Isolation Cooling System (BWR)		DSRA-SRSB		B) Delete SRP Section for mPower review (N/A)	
5.4.7	Residual Heat Removal (RHR) System	ML12319A582	DSRA-SRSB		C) Modify SRP Section for DSRS	
5.4.8	Reactor Water Cleanup System (BWR)		DE-CIB		B) Delete SRP Section for mPower review (N/A)	
5.4.11	Pressurizer Relief Tank		DSRA-SRSB		C) Modify SRP Section for DSRS	<i>This section to be released for public comment via separate FRN at a later date.</i>
5.4.12	Reactor Coolant System High Point Vents	ML070770005	DSRA-SRSB		A) Use SRP Section “as-is” (minor comments, if applicable)	

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5.4.13	Isolation Condenser System (BWR)		DSRA-SRSB		B) Delete SRP Section for mPower review (N/A)	
5.4.14	mPower Auxiliary Condenser System (CNX)		DSRA-SRSB	DSRA-BPFP DSRA-BPTS	D) Develop new DSRS Section	<i>This section to be released for public comment via separate FRN at a later date.</i>
BTP 5-1	Monitoring of Secondary Side Water Chemistry in PWR Steam Generators	ML070850019	DE-CIB		A) Use SRP Section "as-is" (minor comments, if applicable)	
BTP 5-2	Overpressure Protection of Pressurized-Water Reactors While Operating at Low Temperatures	ML070850008	DSRA-SRSB		A) Use SRP Section "as-is" (minor comments, if applicable)	
BTP 5-3	Fracture Toughness Requirements	ML070850035	DE-CIB		A) Use SRP Section "as-is" (minor comments, if applicable)	
BTP 5-4	Design Requirements of the Residual Heat Removal System	ML12275A020	DSRA-SRSB		C) Modify SRP Section for DSRS	
6.1.1	Engineered Safety Features Materials	ML12276A107	DE-CIB		C) Modify SRP Section for DSRS	
6.1.2	Protective Coating Systems (Paints) - Organic Materials	ML12272A246	DE-CIB		C) Modify SRP Section for DSRS	
6.2.1	Containment Functional Design	ML12276A117	DSRA-SCVB		C) Modify SRP Section for DSRS	
6.2.1.1.A	mPower iPWR Containment	ML12227A377	DSRA-SCVB		C) Modify SRP Section for DSRS	

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6.2.1.1.B	Ice Condenser Containments		DSRA-SCVB		B) Delete SRP Section for mPower review (N/A)	
6.2.1.1.C	Pressure-Suppression Type BWR Containments		DSRA-SCVB		B) Delete SRP Section for mPower review (N/A)	
6.2.1.2	Subcompartment Analysis	ML12230A014	DSRA-SCVB		C) Modify SRP Section for DSRS	
6.2.1.3	Mass and Energy Release Analysis for Postulated Loss of Coolant Accidents	ML12230A034	DSRA-SCVB		C) Modify SRP Section for DSRS	
6.2.1.4	Mass and Energy Release Analysis for Postulated Secondary System Pipe Ruptures	ML12230A037	DSRA-SCVB		C) Modify SRP Section for DSRS	
6.2.1.5	Minimum Containment Pressure Analysis for Emergency Core Cooling System Performance Capability Studies	ML063600405	DSRA-SCVB		A) Use SRP Section "as-is" (minor comments, if applicable)	
6.2.2	Containment Heat Removal Systems	ML12276A118	DSRA-SCVB	DE-CIB	C) Modify SRP Section for DSRS	
6.2.3	Secondary Containment Functional Design		DSRA-SCVB		B) Delete SRP Section for mPower review (N/A)	
6.2.4	Containment Isolation System	ML12276A120	DSRA-SCVB		C) Modify SRP Section for DSRS	
6.2.5	Combustible Gas Control in Containment	ML12276A124	DSRA-SCVB		C) Modify SRP Section for DSRS	
6.2.6	Containment Leakage Testing	ML12276A127	DSRA-SCVB		C) Modify SRP Section for DSRS	

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6.2.7	Fracture Prevention of Containment Pressure Boundary	ML12278A103	DE-CIB		C) Modify SRP Section for DSRS	
6.3	Emergency Core Cooling System		DSRA-SRSB	Multiple as defined in the DSRS	C) Modify SRP Section for DSRS	<i>This section to be released for public comment via separate FRN at a later date.</i>
6.4	Control Room Habitability System	ML12272A225	DSRA -SCVB	DSEA-RPAC DSEA-RDAT DE-CIB	C) Modify SRP Section for DSRS	
6.5.1	ESF Atmosphere Cleanup Systems	ML100700256	DSRA -SCVB	DSEA-RPAC DSEA-RDAT	A) Use SRP Section "as-is" (minor comments, if applicable)	
6.5.2	Containment Spray as a Fission Product Cleanup System		DE-CIB	DSRA -SCVB	B) Delete SRP Section for mPower review (N/A)	
6.5.3	Fission Product Control Systems and Structures	ML063600408	DSRA -SCVB	DSEA-RPAC	A) Use SRP Section "as-is" (minor comments, if applicable)	
6.5.4	Ice Condenser as a Fission Product Cleanup System		DSRA -SCVB		B) Delete SRP Section for mPower review (N/A)	
6.5.5	Pressure Suppression Pool as a Fission Product Cleanup System		DSEA-RPAC DSEA-RDAT	DSRA-SCVB DE-CIB	B) Delete SRP Section for mPower review (N/A)	
6.6	Inservice Inspection and Testing of Class 2 and 3 Components	ML12284A064	DE-CIB		C) Modify SRP Section for DSRS	

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6.7	Main Steam Isolation Valve Leakage Control System (BWR)		DSRA -SCVB		B) Delete SRP Section for mPower review (N/A)	
BTP 6-1	PH for Emergency Coolant Water for Pressurized Water Reactors	ML12222A198	DE-CIB		C) Modify SRP Section for DSRS	
BTP 6-2	Minimum Containment Pressure Model for PWR ECCS Performance Evaluation	ML12227A380	DSRA -SCVB		C) Modify SRP Section for DSRS	
BTP 6-3	Determination of Bypass Leakage Paths in Dual Containment Plants	ML070740004	DSRA -SCVB		A) Use SRP Section "as-is" (minor comments, if applicable)	
BTP 6-4	Containment Purging During Normal Plant Operations	ML12227A384	DSRA -SCVB		C) Modify SRP Section for DSRS	
BTP 6-5	Currently the Responsibility of Reactor Systems Piping from the RWST (or BWST) and Containment Sump(s) to the Safety Injection Pumps		DSRA -SCVB		B) Delete SRP Section for mPower review (N/A)	
7.0 (DSRS)	Instrumentation and Controls -Introduction and Overview of Review Process	ML12314A197	DE-ICE		D) Develop new DSRS Section	

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7.1 (DSRS)	Instrumentation and Controls-Fundamental Design Principles	ML12313A479	DE-ICE		D) Develop new DSRS Section	
7.2 (DSRS)	Instrumentation and Controls-System Characteristics	ML12314A201	DE-ICE		D) Develop new DSRS Section	
7.0 APP A (DSRS)	Instrumentation and Controls-Hazard Analysis	ML12318A200	DE-ICE		D) Develop new DSRS Section	
7.0 APP B (DSRS)	Instrumentation and Controls-System Architecture	ML12318A201	DE-ICE		D) Develop new DSRS Section	
7.0 APP C (DSRS)	Instrumentation and Controls-Simplicity	ML12318A204	DE-ICE		D) Develop new DSRS Section	
7.0 APP D (DSRS)	Instrumentation and Controls-References	ML12318A205	DE-ICE		D) Develop new DSRS Section	
7.0 (SRP)	Instrumentation and Controls-Overview of Review Process		DE-ICE or NRR-DE-EEEE		B) Delete SRP Section for mPower review (N/A)	
7.0 APP A (SRP)	Review Process for Digital Instrumentation and Control Systems		DE-ICE or NRR-DE-EEEE		B) Delete SRP Section for mPower review (N/A)	
7.1 (SRP)	Instrumentation and Controls-Introduction		DE-ICE or NRR-DE-EEEE		B) Delete SRP Section for mPower review (N/A)	
7.1 APP A (SRP)	Acceptance Criteria and Guidelines for Instrumentation and Control Systems Important to Safety		DE-ICE or NRR-DE-EEEE		B) Delete SRP Section for mPower review (N/A)	

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7.1 APP B (SRP)	Guidance for Evaluation of Conformance to IEEE Std. 279		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
7.1 APP C (SRP)	Guidance for Evaluation of Conformance to IEEE Std. 603		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
7.1 APP D (SRP)	Guidance for Evaluation of the Application of IEEE Std. 7-4.3.2		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
7.1 T (SRP)	Table-Regulatory Requirements, Acceptance Criteria, and Guidelines For Instrumentation and Control Systems Important to Safety		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
7.2 (SRP)	Reactor Trip System		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
7.3 (SRP)	Engineered Safety Features Systems		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
7.4 (SRP)	Safe Shutdown Systems		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
7.5 (SRP)	Information Systems Important to Safety		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
7.6 (SRP)	Interlock Systems Important to Safety		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	

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7.7 (SRP)	Control Systems		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
7.8 (SRP)	Diverse Instrumentation and Control Systems		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
7.9 (SRP)	Data Communication Systems		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
Appendix 7-A (SRP)	General Agenda, Station Site visits		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
Appendix 7-B (SRP)	Acronyms, Abbreviations, and Glossary		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
BTP Index (SRP)	Branch Technical Positions		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
BTP 7-1(SRP)	Guidance on Isolation of Low-Pressure Systems from the High-Pressure Reactor Coolant System		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
BTP 7-2 (SRP)	Guidance on Requirements of Motor-Operated Valves in the Emergency Core Cooling System Accumulator Lines		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	

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BTP 7-3 (SRP)	Guidance on Protection System Trip Point Changes for Operation with Reactor Coolant Pumps out of Service		DE-ICE or NRR-DE-EEEE		B) Delete SRP Section for mPower review (N/A)	
BTP 7-4 (SRP)	Guidance on Design Criteria for Auxiliary Feedwater Systems		DE-ICE or NRR-DE-EEEE		B) Delete SRP Section for mPower review (N/A)	
BTP 7-5 (SRP)	Guidance on Spurious Withdrawals of Single Control Rods in Pressurized Water Reactors		DE-ICE or NRR-DE-EEEE		B) Delete SRP Section for mPower review (N/A)	
BTP 7-6 (SRP)	Guidance on Design of Instrumentation and Controls Provided to Accomplish Changeover from Injection to Recirculation Mode		DE-ICE or NRR-DE-EEEE		B) Delete SRP Section for mPower review (N/A)	
BTP 7-8 (SRP)	Guidance for Application of Regulatory Guide 1.22		DE-ICE or NRR-DE-EEEE		B) Delete SRP Section for mPower review (N/A)	
BTP 7-9 (SRP)	Guidance on Requirements for Reactor Protection System Anticipatory Trips		DE-ICE or NRR-DE-EEEE		B) Delete SRP Section for mPower review (N/A)	
BTP 7-10 (SRP)	Guidance on Application of Regulatory Guide 1.97		DE-ICE or NRR-DE-EEEE		B) Delete SRP Section for mPower review (N/A)	

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BTP 7-11 (SRP)	Guidance on Application and Qualification of Isolation Devices		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
BTP 7-12 (SRP)	Guidance on Establishing and Maintaining Instrument Setpoints		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
BTP 7-13 (SRP)	Guidance on Cross-Calibration of Protection System Resistance Temperature Detectors		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
BTP 7-14 (SRP)	Guidance on Software Reviews for Digital Computer-Based Instrumentation and Control Systems		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
BTP 7-17 (SRP)	Guidance on Self-Test and Surveillance Test Provisions		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
BTP 7-18 (SRP)	Guidance on the Use of Programmable Logic Controllers in Digital Computer-Based Instrumentation and Control Systems		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
BTP 7-19 (SRP)	Guidance for Evaluation of Diversity and Defense-in-Depth and Diversity Computer-Based Instrumentation and Control Systems		DE-ICE or NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	

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BTP 7-21 (SRP)	Guidance on Digital Computer Real-Time Performance		DE-ICE or NRR-DE-EEEB		B) Delete SRP Section for mPower review (N/A)	
8.1	Electric Power / Introduction	ML12269A005	NRR-DE-EEEB		C) Modify SRP Section for DSRS	
8.2	Offsite Power System	ML12269A006	NRR-DE-EEEB		C) Modify SRP Section for DSRS	
8.3.1	A C Power Systems (Onsite)	ML12269A010	NRR-DE-EEEB		C) Modify SRP Section for DSRS	
8.3.2	D C Power Systems (Onsite)	ML12269A011	NRR-DE-EEEB		C) Modify SRP Section for DSRS	
8.4	Station Blackout	ML12269A015	NRR-DE-EEEB		C) Modify SRP Section for DSRS	
8-A	General Agenda, Station Site Visits		NRR-DE-EEEB		B) Delete SRP Section for mPower review (N/A)	
BTP 8-1	Requirements on Motor-operated Valves in the ECCS Accumulator Lines	ML070710423	NRR-DE-EEEB		A) Use SRP Section "as-is" (minor comments, if applicable)	
BTP 8-2	Use of Diesel-Generator Sets for Peaking	ML12269A016	NRR-DE-EEEB		C) Modify SRP Section for DSRS	
BTP 8-3	Stability of Offsite Power Systems	ML12269A017	NRR-DE-EEEB		C) Modify SRP Section for DSRS	
BTP 8-4	Application of the Single Failure Criterion to Manually Controlled Electrically Operated Valves	ML070710452	NRR-DE-EEEB		A) Use SRP Section "as-is" (minor comments, if applicable)	

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BTP 8-5	Supplemental Guidance for Bypass and Inoperable Status Indication for Engineered Safety Features Systems		NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
BTP 8-6	Adequacy of Station Electric Distribution System Voltages	ML12269A018	NRR-DE-EEEEB		C) Modify SRP Section for DSRS	
BTP 8-7	Criteria for Alarms and Indications Associated with Diesel-Generator Unit Bypassed and Inoperable Status		NRR-DE-EEEEB		B) Delete SRP Section for mPower review (N/A)	
9.1.1	Criticality Safety of Fresh and Spent Fuel Storage and Handling	ML070570006	DSRA-SRSB	DE-CIB	A) Use SRP Section "as-is" (minor comments, if applicable)	
9.1.2	New and Spent Fuel Storage	ML070550057	DSRA-BPFP DSRA-BPTS	DE-CIB	A) Use SRP Section "as-is" (minor comments, if applicable)	Amended to accommodate mPower™-specific single spent fuel pool shared by two units. Section III. Review Procedures Item 1. Change this to read: 1. The SAR is reviewed to determine whether the design bases and facility description section indicate the storage capacity of the design. The minimum storage capacity in the spent fuel storage pool

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						should equal or exceed the amount of spent fuel from five years of operation at full power plus one full core discharge from each unit sharing the pool. Due to insufficient away-from-reactor storage capacity, the industry trend has been to use high-density storage racks. The reviewer evaluates high-density storage case by case. Low-density storage should be used, at a minimum, for the most recently discharged fuel to enhance the capability to cool it.
9.1.3	Spent Fuel Pool Cooling and Cleanup System	ML12319A063	DSRA-BPFP DSRA-BPTS	DE-CIB	C) Modify SRP Section for DSRS	
9.1.4	Light Load Handling System (Related to Refueling)	ML070380200	DSRA-BPFP DSRA-BPTS		A) Use SRP Section “as-is” (minor comments, if applicable)	
9.1.5	Overhead Heavy Load Handling Systems	ML070380201	DSRA-BPFP DSRA-BPTS	DE-SEB	A) Use SRP Section “as-is” (minor comments, if applicable)	
9.2.1	Station Service Water System	ML12319A068	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	

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9.2.2	Reactor Auxiliary Cooling Water Systems	ML12325A088	DSRA-BPFP DSRA-BPTS	DE-CIB	C) Modify SRP Section for DSRS	
9.2.4	Potable and Sanitary Water Systems	ML12319A091	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
9.2.5	Ultimate Heat Sink	ML12319A423	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
9.2.6	Condensate Storage Facilities	ML12270A276	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
9.3.1	Compressed Air System	ML070550044	DSRA-BPFP DSRA-BPTS		A) Use SRP Section "as-is" (minor comments, if applicable)	
9.3.2	Process and Post Accident Sampling Systems	ML12170A005	DE-CIB	Multiple as defined in the DSRS	C) Modify SRP Section for DSRS	
9.3.3	Equipment and Floor Drainage System	ML12319A437	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
9.3.4	Chemical and Volume Control System (PWR) Including Boron Recovery System		DSRA-SRSB	DE-CIB	B) Delete SRP Section for mPower review (N/A)	
9.3.5	Standby Liquid Control System (BWR)		DSRA-SRSB		B) Delete SRP Section for mPower review (N/A)	
9.3.6	mPower Reactor Coolant Inventory and Purification System		DSRA-SRSB	DE-CIB	D) Develop new DSRS Section	<i>This section to be released for public comment via separate FRN at a later date.</i>
9.4.1	Control Room Area Ventilation System	ML12276A130	DSRA-SCVB		C) Modify SRP Section for DSRS	

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9.4.2	Spent Fuel Pool Area Ventilation System	ML12272A229	DSRA-SCVB		C) Modify SRP Section for DSRS	
9.4.3	Reactor Service Building HVAC Systems	ML12276A133	DSRA-SCVB		C) Modify SRP Section for DSRS	
9.4.4	Turbine Area Ventilation System	ML12221A117	DSRA-SCVB		C) Modify SRP Section for DSRS	
9.4.5	Engineered Safety Feature Ventilation System		DSRA-SCVB		B) Delete SRP Section for mPower review (N/A)	
9.5.1.1	Fire Protection Program	ML090510170	DSRA-BPFP		A) Use SRP Section "as-is" (minor comments, if applicable)	
9.5.1.2	Risk Informed (RI), Performance Based (PB) Fire Protection Program		DSRA-BPFP		B) Delete SRP Section for mPower review (N/A)	
9.5.2	Communications Systems	ML12277A361	DE-ICE		C) Modify SRP Section for DSRS	
9.5.3	Lighting Systems	ML12319A516	NRR-DE-EEEB		C) Modify SRP Section for DSRS	
9.5.4	Emergency Diesel Engine Fuel Oil Storage and Transfer System	ML070680388	DSRA-BPFP DSRA-BPTS	DE-CIB	A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
9.5.5	Emergency Diesel Engine Cooling Water System	ML070550035	DSRA-BPFP DSRA-BPTS		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>

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9.5.6	Emergency Diesel Engine Starting System	ML070550034	DSRA-BPFP DSRA-BPTS		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
9.5.7	Emergency Diesel Engine Lubrication System	ML070460354	DSRA-BPFP DSRA-BPTS		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
9.5.8	Emergency Diesel Engine Combustion Air Intake and Exhaust System	ML070550033	DSRA-BPFP DSRA-BPTS		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
10.2	Turbine Generator	ML12320A111	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
10.2.3	Turbine Rotor Integrity	ML12272A247	DE-CIB		C) Modify SRP Section for DSRS	
10.3	Main Steam Supply System	ML12320A134	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
10.3.6	Steam and Feedwater System Materials	ML12272A004	DE-CIB		C) Modify SRP Section for DSRS	
10.4.1	Main Condensers	ML12320A139	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
10.4.2	Main Condenser Evacuation System	ML12320A146	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
10.4.3	Turbine Gland Sealing System	ML12320A157	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
10.4.4	Turbine Bypass System	ML12320A161	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
10.4.5	Circulating Water System	ML12320A172	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	

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10.4.6	Condensate Cleanup System	ML12272A242	DE-CIB		C) Modify SRP Section for DSRS	
10.4.7	Condensate and Feedwater System	ML12320A183	DSRA-BPFP DSRA-BPTS		C) Modify SRP Section for DSRS	
10.4.8	Steam Generator Blowdown System	ML070550004	DE-CIB	DE-ICE	A) Use SRP Section "as-is" (minor comments, if applicable)	
10.4.9	Auxiliary Feedwater System (PWR)		DSRA-BPFP DSRA-BPTS		B) Delete SRP Section for mPower review (N/A)	
BTP 10-1	Design Guidelines for Auxiliary Feedwater System Pump Drive and Power Supply Diversity for Pressurized Water Reactor Plants		DSRA-BPFP DSRA-BPTS		B) Delete SRP Section for mPower review (N/A)	
BTP 10-2	Design Guidelines for Avoiding Water Hammers in Steam Generators		DSRA-BPFP DSRA-BPTS		B) Delete SRP Section for mPower review (N/A)	
11.1	Source Terms	ML12222A292	DSEA-RPAC		C) Modify SRP Section for DSRS	
11.2	Liquid Waste Management Systems	ML12257A228	DSEA-RPAC	DSRA-BPFP DSRA-BPTS	C) Modify SRP Section for DSRS	
11.3	Gaseous Waste Management Systems	ML12257A227	DSEA-RPAC	DSRA-BPFP DSRA-BPTS	C) Modify SRP Section for DSRS	
11.4	Solid Waste Management Systems	ML12257A223	DSEA-RPAC	DSRA-BPFP DSRA-BPTS	C) Modify SRP Section for DSRS	

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11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	ML12258A115	DSEA-RPAC	DE-ICE	C) Modify SRP Section for DSRS	
11.6	Guidance on Instrumentation and Control Design Features for Process and Effluent Radiological Monitoring, and Area Radiation and Airborne Radioactivity Monitoring	ML13023A089	DSEA-RPAC		D) Develop new DSRS Section	
BTP 11-3	Design Guidance for Solid Radioactive Waste Management Systems Installed in Light-Water - Cooled Nuclear Power Reactor Plants	ML12222A293	DSEA-RPAC	DSRA-BPFP DSRA-BPTS	C) Modify SRP Section for DSRS	
BTP 11-5	Postulated Radioactive Releases Due to a Waste Gas System Leak or Failure	ML12222A294	DSEA-RPAC		C) Modify SRP Section for DSRS	
BTP 11-6	Postulated Radioactive Releases Due to Liquid-Containing Tank Failures	ML070720635	DSEA-RPAC		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
12.1	Assuring that Occupational Radiation Exposures Are As Low As Is Reasonably Achievable	ML12222A295	DSEA-RPAC		C) Modify SRP Section for DSRS	

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12.2	Radiation Sources	ML12222A296	DSEA-RPAC		C) Modify SRP Section for DSRS	
12.3 - 12.4	Radiation Protection Design Features	ML12269A175	DSEA-RPAC		C) Modify SRP Section for DSRS	
12.5	Operational Radiation Protection Program	ML12257A224	DSEA-RPAC		C) Modify SRP Section for DSRS	
13.1.1	Management and Technical Support Organization	ML070460302	DCIP-COLP		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
13.1.2 - 13.1.3	Operating Organization	ML070250009	DCIP-COLP		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
13.2.1	Reactor Operator Requalification Program; Reactor Operator Training	ML070100636	DCIP-COLP		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
13.2.2	Non- Licensed Plant Staff Training	ML070100637	DCIP-COLP		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
13.3	Emergency Planning	ML063410307	NSIR-DPR-NRLB		A) Use SRP Section "as-is" (minor comments, if applicable)	
13.4	Operational Programs	ML070470463	DARR-SMRLB1	Multiple as defined in the DSRS	A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>

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13.5.1.1	Administrative Procedures - General	ML070550029	DCIP-COLP		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
13.5.1.2	Administrative Procedures - Initial Test Program		DCIP-CQAB		B) Delete SRP Section for mPower review (N/A)	
13.5.2.1	Operating and Emergency Operating Procedures	ML070100635	DCIP-COLP		A) Use SRP Section "as-is" (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
13.5.2.2	Maintenance and Other Operating Procedures	ML052070648	DCIP-COLP		A) Use SRP Section "as-is" (minor comments, if applicable)	
13.6	Physical Security	ML062190002	NSIR-DSP-RSLB		A) Use SRP Section "as-is" (minor comments, if applicable)	
13.6.1	Physical Security - Combined License and Operating Reactors	ML102230082	NSIR-DSP-RSLB		A) Use SRP Section "as-is" (minor comments, if applicable)	
13.6.2	Physical Security - Design Certification	ML12311A420	NSIR-DSP-RSLB		A) Use SRP Section "as-is" (minor comments, if applicable)	
13.6.3	Physical Security - Early Site Permit	ML102571602	NSIR-DSP-RSLB		A) Use SRP Section "as-is" (minor comments, if applicable)	

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13.6.4	Access Authorization Operational Program	ML12125A098	NSIR-DSP-RSLB		A) Use SRP Section “as-is” (minor comments, if applicable)	
13.6.6	Cyber Security Plan	ML102630477	NSIR-DSP-CSIRB		A) Use SRP Section “as-is” (minor comments, if applicable)	
14.2	Initial Plant Test Program - Design Certification and New License Applicants	ML12121A037	DCIP-CQAB	DSRA-SRSB DSRA-BPFP DSRA-BPTS	C) Modify SRP Section for DSRS	
14.2.1	Generic Guidelines for Extended Power Uprate Testing Programs		DCIP-CQAB		B) Delete SRP Section for mPower review (N/A)	
14.3	Inspections, Tests, Analyses, and Acceptance Criteria	ML070660618	DARR-SMRLB1	DCIP-CITB DSRA-SPRA	A) Use SRP Section “as-is” (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
14.3.1	Site Parameters - Inspections, Tests, Analyses, and Acceptance Criteria	ML070520589	DCIP-CITB		A) Use SRP Section “as-is” (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
14.3.2	Structural and Systems Engineering - Inspections, Tests, Analyses, and Acceptance Criteria	ML12272A243	DE-SEB	DSRA-BPFP DSRA-BPTS, DSEA-RPAC, DCIP-CITB, NSIR-DPR-NRLB, NSIR-DSP-RSLB	C) Modify SRP Section for DSRS	

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14.3.3	Piping Systems and Components - Inspections, Tests, Analyses, and Acceptance Criteria	ML070660622	DE-EMB	DCIP-CITB DE-CIB	A) Use SRP Section "as-is" (minor comments, if applicable)	
14.3.4	Reactor Systems - Inspections, Tests, Analyses, and Acceptance Criteria	ML12353A174	DSRA-SRSB	DCIP-CITB	C) Modify SRP Section for DSRS	
14.3.5	Instrumentation and Controls - Inspections, Tests, Analyses, and Acceptance Criteria	ML12332A346	DE-ICE	DCIP-CITB	C) Modify SRP Section for DSRS	
14.3.6	Electrical Systems - Inspections, Tests, Analyses, and Acceptance Criteria	ML12320A188	NRR-DE-EEEB	DCIP-CITB	C) Modify SRP Section for DSRS	
14.3.7	Plant Systems - Inspections, Tests, Analyses, and Acceptance Criteria	ML12320A195	DSRA-BPFP DSRA-BPTS	DCIP-CITB	C) Modify SRP Section for DSRS	
14.3.8	Radiation Protection - Inspections, Tests, Analyses, and Acceptance Criteria	ML12257A225	DSEA-RPAC	DCIP-CITB	C) Modify SRP Section for DSRS	
14.3.9	Human Factors Engineering - Inspections, Tests, Analyses, and Acceptance Criteria	ML070550021	DCIP-COLP	DCIP-CITB	A) Use SRP Section "as-is" (minor comments, if applicable)	

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14.3.10	Emergency Preparedness (formerly Initial Test Program and D-RAP) - Inspections, Tests, Analyses, and Acceptance Criteria	ML070730206	NSIR-NRLB	DCIP-CITB	A) Use SRP Section "as-is" (minor comments, if applicable)	
14.3.11	Containment Systems - Inspections, Tests, Analyses, and Acceptance Criteria	ML070550011	DSRA-SCVB	DCIP-CITB	A) Use SRP Section "as-is" (minor comments, if applicable)	
14.3.12	Physical Security Hardware - Inspections, Tests, Analyses, and Acceptance Criteria	ML070660628	NSIR-RSLB	DCIP-CITB	A) Use SRP Section "as-is" (minor comments, if applicable)	
15.0	Introduction—Transient and Accident Analyses	ML12275A026	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.0.1	Radiological Consequence Analyses Using Alternate Source Terms		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.0.2	Review of Transient and Accident Analysis Methods	ML12207A098	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.0.3	Design Basis Accident Radiological Consequence Analyses for Advanced Light Water Reactors	ML12257A226	DSEA-RPAC		C) Modify SRP Section for DSRS	

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15.1.1 - 15.1.4	Decrease in Feedwater Temperature, Increase in Feedwater Flow, Increase in Steam Flow, and Inadvertent Opening of a Steam Generator Relief or Safety Valve		DSRA-SRSB		C) Modify SRP Section for DSRS	<i>This section to be released for public comment via separate FRN at a later date.</i>
15.1.5	Steam System Piping Failures Inside and Outside of Containment	ML12207A108	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.1.5.A	Radiological Consequences of Main Steam Line Failures Outside Containment of a PWR		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.2.1 - 15.2.5	Loss of External Load; Turbine Trip; Loss of Condenser Vacuum; Closure of Main Steam Isolation Valve (BWR); and Steam Pressure Regulator Failure (Closed)	ML12319A584	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.2.6	Loss of Nonemergency AC Power to the Station Auxiliaries	ML12319A587	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.2.7	Loss of Normal Feedwater Flow	ML12250A248	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.2.8	Feedwater System Pipe Breaks Inside and Outside Containment (PWR)	ML12319A668	DSRA-SRSB		C) Modify SRP Section for DSRS	

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15.3.1 - 15.3.2	Loss of Forced Reactor Coolant Flow Including Trip of Pump Motor and Flow Controller Malfunctions	ML12319A585	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.3.3 - 15.3.4	Reactor Coolant Pump Rotor Seizure and Reactor Coolant Pump Shaft Break	ML12319A586	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.4.1	Uncontrolled Control Rod Assembly Withdrawal from a Subcritical or Low Power Startup Condition	ML12240A005	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.4.2	Uncontrolled Control Rod Assembly Withdrawal at Power	ML12242A102	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.4.3	Control Rod Misoperation (System Malfunction or Operator Error)	ML063600415	DSRA-SRSB		A) Use SRP Section "as-is" (minor comments, if applicable)	
15.4.4- 15.4.5	Startup of an Inactive Loop or Recirculation Loop at an Incorrect Temperature, and Flow Controller Malfunction Causing an Increase in BWR Core Flow Rate		DSRA-SRSB		B) Delete SRP Section for mPower review (N/A)	
15.4.6	Inadvertent Decrease in Boron Concentration in the Reactor Coolant System (PWR)		DSRA-SRSB		B) Delete SRP Section for mPower review (N/A)	

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15.4.7	Inadvertent Loading and Operation of a Fuel Assembly in an Improper Position	ML070550013	DSRA-SRSB		A) Use SRP Section "as-is" (minor comments, if applicable)	
15.4.8	Spectrum of Rod Ejection Accidents (PWR)		DSRA-SRSB		B) Delete SRP Section for mPower review (N/A)	
15.4.8.A	Radiological Consequences of a Control Rod Ejection Accident (PWR)		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.4.9	Spectrum of Rod Drop Accidents (BWR)		DSRA-SRSB		B) Delete SRP Section for mPower review (N/A)	
15.4.9.A	Radiological Consequences of Control Rod Drop Accident (BWR)		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.4.10	Startup of an Inactive Pump or Pumps at an Incorrect Temperature, and Flow Controller Malfunction causing an Increase in Core Flow Rate	ML12261A399	DSRA-SRSB		D) Develop new DSRS Section	
15.5.1 - 15.5.2	Inadvertent Operation of ECCS and Reactor Coolant Inventory and Purification System (RCI) Malfunction that Increases Reactor Coolant Inventory	ML12319A575	DSRA-SRSB		C) Modify SRP Section for DSRS	

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15.6.1	Inadvertent Opening of a Pressurizer Safety Valve, or an Automatic Depressurization Valve	ML12250A318	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.6.2	Radiological Consequences of the Failure of Small Lines Carrying Primary Coolant Outside Containment		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.6.3	Radiological Consequences of Steam Generator Tube Failure (PWR)		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.6.4	Radiological Consequences of Main Steam Line Failure Outside Containment (BWR)		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.6.5	Loss of Coolant Accidents Resulting From Spectrum of Postulated Piping Breaks Within the Reactor Coolant Pressure Boundary	ML12319A576	DSRA-SRSB	DSRA-SCVB	C) Modify SRP Section for DSRS	
15.6.5.A	Radiological Consequences of a Design Basis Loss-of-Coolant Accident Including Containment Leakage Contribution		DSEA-RPAC	DE-CIB	B) Delete SRP Section for mPower review (N/A)	

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15.6.5.B	Radiological Consequences of a Design Basis Loss-of-Coolant Accident Leakage From Engineered Safety Feature Components Outside Containment		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.6.5.D	Radiological Consequences of a Design Basis Loss-of-Coolant Accident: Leakage From Main Steam Isolation Valve Leakage Control System (BWR)		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.7.3	Postulated Radioactive Releases Due to Liquid-Containing Tank Failures		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.7.4	Radiological Consequences of Fuel Handling Accidents		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.7.5	Spent Fuel Cask Drop Accidents		DSEA-RPAC		B) Delete SRP Section for mPower review (N/A)	
15.8	Anticipated Transients Without Scram	ML12319A577	DSRA-SRSB		C) Modify SRP Section for DSRS	
15.9	Boiling Water Reactor Stability		DSRA-SRSB		B) Delete SRP Section for mPower review (N/A)	
15.9.A	Thermal Hydraulic Stability	ML12261A042	DSRA-SRSB		D) Develop new DSRS Section	

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16.0	Technical Specifications	ML12270A277	DSRA-BPTS		C) Modify SRP Section for DSRS	
16.1	Risk-Informed Decision Making: Technical Specifications	ML070380228	DSRA-BPFP DSRA-BPTS DCIP-CITB		A) Use SRP Section “as-is” (minor comments, if applicable)	
17.1	Quality Assurance During the Construction Phases		DCIP-CQAB		B) Delete SRP Section for mPower review (N/A)	
17.2	Quality Assurance During the Operations Phase		DCIP-CQAB		B) Delete SRP Section for mPower review (N/A)	
17.3	Quality Assurance Program Description		DCIP-CQAB		B) Delete SRP Section for mPower review (N/A)	
17.4	Reliability Assurance Program (RAP)	ML063190018	DSRA-SPRA		A) Use SRP Section “as-is” (minor comments, if applicable)	
17.5	Quality Assurance Program Description - Design Certification, Early Site Permit and New License Applicants	ML063190019	DCIP-CQAB		A) Use SRP Section “as-is” (minor comments, if applicable)	
17.6	Maintenance Rule	ML070810004	DSRA-SPRA		A) Use SRP Section “as-is” (minor comments, if applicable)	

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18.0	Human Factors Engineering	ML070670253	DCIP-COLP	DE-ICE	A) Use SRP Section “as-is” (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
19.0	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	ML12132A481	DSRA-SPRA	Multiple as defined in the SRP	A) Use SRP Section “as-is” (minor comments, if applicable)	<i>SRP Section is in the process of an update.</i>
19.1	Determining the Technical Adequacy of Probabilistic Risk Assessment Results for Risk-Informed Activities	ML12193A107	DSRA-SPRA		A) Use SRP Section “as-is” (minor comments, if applicable)	
19.2	Review of Risk Information Used to Support Permanent Plant-Specific Changes to the Licensing Basis: General Guidance	ML071700658	DSRA-SPRA	DSRA-BPFP DSRA-BPTS DSRA-SRSB DCIP-CTSB	A) Use SRP Section “as-is” (minor comments, if applicable)	
19.3	Regulatory Treatment of Non-Safety Systems for Passive Advanced Light Water Reactors	ML12128A405	DSRA-SPRA	Multiple as defined in the SRP	A) Use SRP Section “as-is” (minor comments, if applicable)	<i>New SRP Section in the process of initial issuance.</i>
19.4	Strategies and Guidance to Address Loss of Large Areas of the Plant Due to Explosions or Fires		DSRA-BPFP DSRA-BPTS		A) Use SRP Section “as-is” (minor comments, if applicable)	<i>New SRP Section in the process of initial issuance.</i>

mPower™ Design-Specific Review Standard Scope and Safety Review Matrix

This DSRS Matrix is applicable to an mPower™ design-related DC, COL, or ESP application under 10 CFR Part 52.

NUREG-0800 SRP/DSRS Section No.	NUREG-0800 SRP/DSRS Section Title	ADAMS Accession No. (ML Number) ¹	Primary Review Branch ²	Secondary Review Branch(es)	Applicability of NUREG-0800 Section to mPower™ Design ³	Comments/Additional Guidance Documents to be used for Review, etc. ⁴
19.5	Adequacy of Design Features and Functional Capabilities Identified and Described for Withstanding Aircraft Impacts	ML12138A468	DSRA-BPFP DSRA-BPTS DE-SEB	Multiple as defined in the SRP	A) Use SRP Section “as-is” (minor comments, if applicable)	<i>New SRP Section in the process of initial issuance.</i>

mPower Design-Specific Review Standard Scope and Safety Review Matrix

ACRONYMS

APOB	Policy Branch	EPB2	Environmental Projects Branch 2
BFPF	Balance of Plant & Fire Protection Branch	ICE1	Instrumentation & Controls & Electrical Engineering Branch 1
BPTS	Balance of Plant & Technical Spec. Branch	ICE2	Instrumentation & Controls & Electrical Engineering Branch 2
CAEB	Construction Assessment & Enforcement Branch	LB1	Licensing Branch 1
CEVB	Construction Electrical Vendor Branch	LB2	Licensing Branch 2
CIB	Component Integrity Branch	LB3	Licensing Branch 3
CIPB	Construction Inspection Program Branch	LB4	Licensing Branch 4
CITB	ITAAC Branch	NRLB	New Reactor Licensing Branch
CMVB	Construction Mechanical Vendor Branch	NRR	Office of Nuclear Reactor Regulation
COLP	Operator. Licensing & Human Performance. Branch	NSIR	Office of Nuclear Security & Incident Response
CQAB	Quality Assurance Branch	RDAT	Dose Assessment Team
CSIRB	Cyber Security and Integrated Response Branch	RENV	Environmental Technical Support Branch
DARR	Division of Advanced Reactors and Rulemaking	RGS1	Geosciences & Geotechnical Eng. Branch 1
DCIP	Division of Construction Inspection & Operational Programs	RGS2	Geosciences & Geotechnical Eng. Branch 2
DE	Division of Engineering	RHMB	Hydrological & Meteorology Branch
DNRL	Division of New Reactor Licensing	RHST	Hydrology Special Topics Team
DPR	Division of Preparedness and Response	RPAC	Radiation Protection & Accident Consequences. Branch
DSEA	Division of Site Safety & Environmental Analysis	RSLB	Reactor Security Licensing Branch
DSP	Division of Security Policy	RWET	Water & Ecology Team
DSRA	Division of Safety Systems & Risk Assessment	SCVB	Containment & Ventilation Branch
EEEB	Electrical Engineering Branch	SEB1	Structural Engineering Branch 1
EMB	Engineering Mechanics Branch	SEB2	Structural Engineering Branch 2
EPB1	Environmental Projects Branch 1	SMRLB1	Small Modular Reactor Licensing Branch 1