

NuScale Design-Specific Review Standard (DSRS) Scope and Safety Matrix

The DSRS is applicable to a NuScale design certification application (DC) or an early site permit (ESP) or combined license (COL) application that references the NuScale design application under 10 CFR Part 52.

NUREG-0800 SRP/DSRS Section No.	NUREG-0800 SRP/DSRS Section Title	ADAMS Accession No. and/or Hyperlink for SRPs and NuScale DSRS Sections ¹	Applicability of NUREG-0800 Section to Design ²	<i>Comments/Additional Guidance Documents to be used for Review, etc.³</i>
INTRO P1	NUREG-0800 Introduction (Part 1)	NUREG-0800	A) Use SRP Section	
INTRO P2	NUREG-0800 Introduction Part 2: Integral Pressurized Water Reactors Edition	NUREG-0800	A) Use SRP Section	
1.0	Introduction and Interfaces	NUREG-0800	A) Use SRP Section	
2.0	Site Characteristics and Site Parameters	NUREG-0800	A) Use SRP Section	
2.1.1	Site Location and Description	NUREG-0800	A) Use SRP Section	
2.1.2	Exclusion Area Authority and Control	NUREG-0800	A) Use SRP Section	
2.1.3	Population Distribution	NUREG-0800	A) Use SRP Section	

¹ This column provides the public accession number for each NuScale DSRS section in the NRC’s Agencywide Documents Access and Management System (ADAMS). The list of SRPs provided in this Matrix is solely to show which SRPs are use-as-is for NuScale and therefore a NuScale DSRS is not needed for those sections. These SRPs can be accessed at: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr0800/> or through the link listed after the Section title.

² This column shows the staff’s determination of the applicability of each section to the NuScale design. The staff developed three 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 - the NUREG-0800 SRP section was applicable to the NuScale review ;
- B) Delete SRP Section for NuScale review (N/A) - the NUREG-0800 SRP section was not applicable and will not be used for the NuScale review; or,
- C) 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 NuScale design).

³ Comments in this column are noted by italicized font and include the identification of existing SRPs which are in the process of being updated.

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2.2.1 - 2.2.2	Identification of Potential Hazards in Site Vicinity	NUREG-0800	A) Use SRP Section	
2.2.3	Evaluation of Potential Accidents	NUREG-0800	A) Use SRP Section	
2.3.1	Regional Climatology	NUREG-0800	A) Use SRP Section	
2.3.2	Local Meteorology	NUREG-0800	A) Use SRP Section	
2.3.3	Onsite Meteorological Measurements Programs	NUREG-0800	A) Use SRP Section	
2.3.4	Short Term Dispersion Estimates for Accidental Atmospheric Releases	NUREG-0800	A) Use SRP Section	
2.3.5	Long-Term Atmospheric Dispersion Estimates for Routine Releases	NUREG-0800	A) Use SRP Section	
2.4.0	Hydrology Review	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
2.4.1	Hydrologic Description	NUREG-0800	A) Use SRP Section	
2.4.2	Floods	NUREG-0800	A) Use SRP Section	
2.4.3	Probable Maximum Flood (PMF) on Streams and Rivers	NUREG-0800	A) Use SRP Section	
2.4.4	Potential Dam Failures	NUREG-0800	A) Use SRP Section	
2.4.5	Probable Maximum Surge and Seiche Flooding	NUREG-0800	A) Use SRP Section	

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2.4.6	Probable Maximum Tsunami Flooding	NUREG-0800	A) Use SRP Section	
2.4.7	Ice Effects	NUREG-0800	A) Use SRP Section	
2.4.8	Cooling Water Canals and Reservoirs	NUREG-0800	A) Use SRP Section	
2.4.9	Channel Diversions	NUREG-0800	A) Use SRP Section	
2.4.10	Flooding Protection Requirements	NUREG-0800	A) Use SRP Section	
2.4.11	Low Water Considerations	NUREG-0800	A) Use SRP Section	
2.4.12	Groundwater	NUREG-0800	A) Use SRP Section	
2.4.13	Accidental Releases of Radioactive Liquid Effluents in Ground and Surface Waters	NUREG-0800	A) Use SRP Section	
2.4.14	Technical Specifications and Emergency Operation Requirements	NUREG-0800	A) Use SRP Section	
2.5.1	Basic Geologic and Seismic Information	NUREG-0800	A) Use SRP Section	
2.5.2	Vibratory Ground Motion	NUREG-0800	A) Use SRP Section	
2.5.3	Surface Faulting	NUREG-0800	A) Use SRP Section	
2.5.4	Stability of Subsurface Materials and Foundations	NUREG-0800	A) Use SRP Section	
2.5.5	Stability of Slopes	NUREG-0800	A) Use SRP Section	

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3.2.1	Seismic Classification	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
3.2.2	System Quality Group Classification	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
3.3.1	Severe Wind Loading	ML15071A259	C) Develop new DSRS Section	
3.3.2	Extreme Wind Loads (Tornado and Hurricane Loads)	ML15071A267	C) Develop new DSRS Section	
3.4.1	Internal Flood Protection for Onsite Equipment Failure	ML15139A112	C) Develop new DSRS Section	
3.4.2	Analysis Procedures	ML15071A324	C) Develop new DSRS Section	
3.5.1.1	Internally Generated Missiles (Outside Containment)	ML15139A081	C) Develop new DSRS Section	
3.5.1.2	Internally Generated Missiles (Inside Containment)	ML15139A096	C) Develop new DSRS Section	
3.5.1.3	Turbine Missiles	ML15070A248	C) Develop new DSRS Section	

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3.5.1.4	Missiles Generated by Tornadoes and Extreme Winds	ML15139A121	C) Develop new DSRS Section	
3.5.1.5	Site Proximity Missiles (Except Aircraft)	NUREG-0800	A) Use SRP Section	
3.5.1.6	Aircraft Hazards	NUREG-0800	A) Use SRP Section	
3.5.2	Structures, Systems, and Components To Be Protected From Externally Generated Missiles	ML15139A102	C) Develop new DSRS Section	
3.5.3	Barrier Design Procedures	ML15071A273	C) Develop new DSRS Section	
3.6.1	Plant Design for Protection Against Postulated Piping Failures in Fluid Systems Outside Containment	NUREG-0800	A) Use SRP Section	
3.6.2	Determination of Rupture Locations and Dynamic Effects Associated with the Postulated Rupture of Piping	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
3.6.3	Leak-Before-Break Evaluation Procedures	NUREG-0800	A) Use SRP Section	

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3.7.1	Seismic Design Parameters	ML15084A279	C) Develop new DSRS Section	
3.7.2	Seismic System Analysis	ML15084A177	C) Develop new DSRS Section	
3.7.3	Seismic Subsystem Analysis	ML15131A340	C) Develop new DSRS Section	
3.7.4	Seismic Instrumentation	NUREG-0800	A) Use SRP Section "as-is"	
3.8.1	Concrete Containment	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
3.8.2	Steel Containment	ML15131A373	C) Develop new DSRS Section	
3.8.3	Concrete and Steel Internal Structures of Steel Containments	NUREG-0800	A) Use SRP Section	
3.8.4	Other Seismic Category I Structures	ML15118A151	C) Develop new DSRS Section	
3.8.5	Foundations	ML15132A186	C) Develop new DSRS Section	
3.9.1	Special Topics for Mechanical Components	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>

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3.9.2	Dynamic Testing and Analysis of Systems, Components, and Equipment	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
3.9.3	ASME Code Class 1, 2, and 3 Components, Component Supports, and Core Support Structures	NUREG-0800	A) Use SRP Section	
3.9.4	Control Rod Drive Systems	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
3.9.5	Reactor Pressure Vessel Internals	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
3.9.6	Functional Design, Qualification, and Inservice Testing Programs for Pumps, Valves, and Dynamic Restraints	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
3.9.7	Risk-Informed Inservice Testing of Pumps and Valves	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
3.9.8	Risk-Informed Inservice Inspection of Piping	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	

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3.10	Seismic and Dynamic Qualification of Mechanical and Electrical Equipment	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
3.11	Environmental Qualification of Mechanical and Electrical Equipment	ML15071A273	C) Develop new DSRS Section	
3.12	ASME Code Class 1, 2, and 3 Piping Systems and Associated Supports Design	NUREG-0800	A) Use SRP Section	
3.13	Threaded Fasteners - ASME Code Class 1, 2, and 3	ML15084A277	C) Develop new DSRS Section	
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.)	NUREG-0800	B) Delete SRP Section for NuScale 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	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
BTP 3-3	Protection Against Postulated Piping Failures in Fluid Systems Outside Containment	NUREG-0800	A) Use SRP Section	
BTP 3-4	Postulated Rupture Locations in Fluid System Piping Inside and Outside Containment	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
4.2	Fuel System Design	ML15132A517	C) Develop new DSRS Section	
4.3	Nuclear Design	ML15125A374	C) Develop new DSRS Section	
4.4	Thermal and Hydraulic Design	ML15131A427	C) Develop new DSRS Section	
4.5.1	Control Rod Drive Structural Materials	NUREG-0800	A) Use SRP Section	
4.5.2	Reactor Internal and Core Support Structure Materials	ML15070A325	C) Develop new DSRS Section	

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4.6	Functional Design of Control Rod Drive System	ML15119A111	C) Develop new DSRS Section	
BTP 4-1	Westinghouse Constant Axial Offset Control (CAOC)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
5.2.1.1	Compliance With the Codes and Standards Rule, 10 CFR 50.55a	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
5.2.1.2	Applicable Code Cases	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
5.2.2	Overpressure Protection	ML15118A931	C) Develop new DSRS Section	
5.2.3	Reactor Coolant Pressure Boundary Materials	NUREG-0800	A) Use SRP Section	
5.2.4	Reactor Coolant Pressure Boundary Inservice Inspection and Testing	ML15125A305	C) Develop new DSRS Section	
5.2.5	Reactor Coolant Pressure Boundary Leakage Detection	ML15132A194	C) Develop new DSRS Section	
5.3.1	Reactor Vessel Materials	ML15070A457	C) Develop new DSRS Section	

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5.3.2	Pressure-Temperature Limits, Upper-shelf Energy, and Pressurized Thermal Shock	ML15070A468	C) Develop new DSRS Section	
5.3.3	Reactor Vessel Integrity	ML15070A462	C) Develop new DSRS Section	
5.4	Reactor Coolant System Components and Subsystem Design	ML15126A156	C) Develop new DSRS Section	
5.4.1.1	Pump Flywheel Integrity (PWR)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
5.4.2.1	Steam Generator Materials	ML15131A376	C) Develop new DSRS Section	
5.4.2.2	Steam Generator Program	ML15070A562	C) Develop new DSRS Section	
5.4.6	Reactor Core Isolation Cooling System (BWR)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
5.4.7	Residual Heat Removal (RHR) System	ML15131A360	C) Develop new DSRS Section	
5.4.8	Reactor Water Cleanup System (BWR)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	

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5.4.11	Pressurizer Relief Tank	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
5.4.12	Reactor Coolant System High Point Vents	NUREG-0800	A) Use SRP Section	
5.4.13	Isolation Condenser System (BWR)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
5.4.14	Auxiliary Condenser System (CNX)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
BTP 5-1	Monitoring of Secondary Side Water Chemistry in PWR Steam Generators	NUREG-0800	A) Use SRP Section	
BTP 5-2	Overpressure Protection of Pressurized-Water Reactors While Operating at Low Temperatures	NUREG-0800	A) Use SRP Section	
BTP 5-3	Fracture Toughness Requirements	NUREG-0800	A) Use SRP Section	
BTP 5-4	Design Requirements of the Residual Heat Removal System	ML15132A524	C) Develop new DSRS Section	
6.1.1	Engineered Safety Features Materials	ML15070A567	C) Develop new DSRS Section	

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6.1.2	Protective Coating Systems (Paints) - Organic Materials	ML15071A372	C) Develop new DSRS Section	
6.2.1	Containment Functional Design	ML15118A922	C) Develop new DSRS Section	
6.2.1.1.A	PWR Dry Containments, Including Sub-atmospheric Containment	ML15118A264	C) Develop new DSRS Section	
6.2.1.1.B	Ice Condenser Containments	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
6.2.1.1.C	Pressure-Suppression Type BWR Containments	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
6.2.1.2	Subcompartment Analysis	NUREG-0800	A) Use SRP Section	
6.2.1.3	Mass and Energy Release Analysis for Postulated Loss of Coolant Accidents	ML15112A134	C) Develop new DSRS Section	
6.2.1.4	Mass and Energy Release Analysis for Postulated Secondary System Pipe Ruptures	ML15118A293	C) Develop new DSRS Section	
6.2.1.5	Minimum Containment Pressure Analysis for Emergency Core Cooling System Performance Capability Studies	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	

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6.2.2	Containment Heat Removal Systems	ML15131A341	C) Develop new DSRS Section	
6.2.3	Secondary Containment Functional Design	NUREG-0800	A) Use SRP Section	
6.2.4	Containment Isolation System	ML15119A087	C) Develop new DSRS Section	
6.2.5	Combustible Gas Control in Containment	ML15119A090	C) Develop new DSRS Section	
6.2.6	Containment Leakage Testing	ML15119A084	C) Develop new DSRS Section	
6.2.7	Fracture Prevention of Containment Pressure Boundary	ML15112A517	C) Develop new DSRS Section	
6.3	Emergency Core Cooling System	ML15125A322	C) Develop new DSRS Section	
6.4	Control Room Habitability System	NUREG-0800	A) Use SRP Section	
6.5.1	ESF Atmosphere Cleanup Systems	NUREG-0800	A) Use SRP Section	
6.5.2	Containment Spray as a Fission Product Cleanup System	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
6.5.3	Fission Product Control Systems and Structures	NUREG-0800	A) Use SRP Section	
6.5.4	Ice Condenser as a Fission Product Cleanup System	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	

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6.5.5	Pressure Suppression Pool as a Fission Product Cleanup System	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
6.6	Inservice Inspection and Testing of Class 2 and 3 Components	ML15127A136	C) Develop new DSRS Section	
6.7	Main Steam Isolation Valve Leakage Control System (BWR)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
BTP 6-1	PH for Emergency Coolant Water for Pressurized Water Reactors	ML15125A369	C) Develop new DSRS Section	
BTP 6-2	Minimum Containment Pressure Model for PWR ECCS Performance Evaluation	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
BTP 6-3	Determination of Bypass Leakage Paths in Dual Containment Plants	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
BTP 6-4	Containment Purging During Normal Plant Operations	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	

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BTP 6-5	Currently the Responsibility of Reactor Systems Piping from the RWST (or BWST) and Containment Sump(s) to the Safety Injection Pumps	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
7.0 (DSRS)	Instrumentation and Controls -Introduction and Overview of Review Process	ML15125A340	C) Develop new DSRS Section	
7.1 (DSRS)	Instrumentation and Controls-Fundamental Design Principles	ML15125A335	C) Develop new DSRS Section	
7.2 (DSRS)	Instrumentation and Controls-System Characteristics	ML15125A360	C) Develop new DSRS Section	
7.0 APP A (DSRS)	Instrumentation and Controls-Hazard Analysis	ML15132A583	C) Develop new DSRS Section	
7.0 APP B (DSRS)	Instrumentation and Controls-System Architecture	ML15132A603	C) Develop new DSRS Section	
7.0 APP C (DSRS)	Instrumentation and Controls-Simplicity	ML15132A611	C) Develop new DSRS Section	
7.0 APP D (DSRS)	Instrumentation and Controls-References	ML15132A618	C) Develop new DSRS Section	

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7.3 (SRP)	Engineered Safety Features Systems	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
7.4 (SRP)	Safe Shutdown Systems	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
7.5 (SRP)	Information Systems Important to Safety	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
7.6 (SRP)	Interlock Systems Important to Safety	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
7.7 (SRP)	Control Systems	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
7.8 (SRP)	Diverse Instrumentation and Control Systems	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
7.9 (SRP)	Data Communication Systems	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
Appendix 7-A (SRP)	General Agenda, Station Site visits	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
Appendix 7-B (SRP)	Acronyms, Abbreviations, and Glossary	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>

NuScale Design-Specific Review Standard (DSRS) Scope and Safety Matrix

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BTP Index (SRP)	Branch Technical Positions	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-1(SRP)	Guidance on Isolation of Low-Pressure Systems from the High-Pressure Reactor Coolant System	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-2 (SRP)	Guidance on Requirements of Motor-Operated Valves in the Emergency Core Cooling System Accumulator Lines	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-3 (SRP)	Guidance on Protection System Trip Point Changes for Operation with Reactor Coolant Pumps out of Service	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-4 (SRP)	Guidance on Design Criteria for Auxiliary Feedwater Systems	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-5 (SRP)	Guidance on Spurious Withdrawals of Single Control Rods in Pressurized Water Reactors	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>

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BTP 7-6 (SRP)	Guidance on Design of Instrumentation and Controls Provided to Accomplish Changeover from Injection to Recirculation Mode	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-8 (SRP)	Guidance for Application of Regulatory Guide 1.22	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-9 (SRP)	Guidance on Requirements for Reactor Protection System Anticipatory Trips	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-10 (SRP)	Guidance on Application of Regulatory Guide 1.97	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-11 (SRP)	Guidance on Application and Qualification of Isolation Devices	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-12 (SRP)	Guidance on Establishing and Maintaining Instrument Setpoints	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-13 (SRP)	Guidance on Cross-Calibration of Protection System Resistance Temperature Detectors	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>

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BTP 7-14 (SRP)	Guidance on Software Reviews for Digital Computer-Based Instrumentation and Control Systems	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-17 (SRP)	Guidance on Self-Test and Surveillance Test Provisions	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-18 (SRP)	Guidance on the Use of Programmable Logic Controllers in Digital Computer-Based Instrumentation and Control Systems	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-19 (SRP)	Guidance for Evaluation of Diversity and Defense-in-Depth and Diversity Computer-Based Instrumentation and Control Systems	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
BTP 7-21 (SRP)	Guidance on Digital Computer Real-Time Performance	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	<i>SRP Section is in the process of an update.</i>
8.1	Electric Power / Introduction	ML15146A269	C) Develop new DSRS Section	<i>SRP Section is in the process of an update.</i>
8.2	Offsite Power System	ML15125A425	C) Develop new DSRS Section	

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8.3.1	A C Power Systems (Onsite)	ML15125A384	C) Develop new DSRS Section	
8.3.2	D C Power Systems (Onsite)	ML15125A386	C) Develop new DSRS Section	
8.4	Station Blackout	ML15126A149	C) Develop new DSRS Section	
8-A	General Agenda, Station Site Visits		A) Use SRP Section (minor comments, if applicable)	
BTP 8-1	Requirements on Motor-operated Valves in the ECCS Accumulator Lines	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
BTP 8-2	Use of Diesel-Generator Sets for Peaking	ML15131A386	C) Develop new DSRS Section	
BTP 8-3	Stability of Offsite Power Systems	ML15131A461	C) Develop new DSRS Section	
BTP 8-4	Application of the Single Failure Criterion to Manually Controlled Electrically Operated Valves	NUREG-0800	A) Use SRP Section	
BTP 8-5	Supplemental Guidance for Bypass and Inoperable Status Indication for Engineered Safety Features Systems	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	

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BTP 8-6	Adequacy of Station Electric Distribution System Voltages	ML15131A461	C) Develop new DSRS Section	
BTP 8-7	Criteria for Alarms and Indications Associated with Diesel-Generator Unit Bypassed and Inoperable Status	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
9.1.1	Criticality Safety of Fresh and Spent Fuel Storage and Handling	NUREG-0800	A) Use SRP Section	
9.1.2	New and Spent Fuel Storage	ML15125A307	C) Develop new DSRS Section	
9.1.3	Spent Fuel Pool Cooling and Cleanup System	ML15146A034	C) Develop new DSRS Section	
9.1.4	Light Load Handling System (Related to Refueling)	NUREG-0800	A) Use SRP Section	
9.1.5	Overhead Heavy Load Handling Systems	NUREG-0800	A) Use SRP Section	
9.2.1	Station Service Water System	NUREG-0800	A) Use SRP Section	

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9.2.2	Reactor Auxiliary Cooling Water Systems	NUREG-0800	A) Use SRP Section	
9.2.4	Potable and Sanitary Water Systems	NUREG-0800	A) Use SRP Section	
9.2.5	Ultimate Heat Sink	NUREG-0800	A) Use SRP Section	
9.2.6	Condensate Storage Facilities	ML15131A245	C) Develop new DSRS Section	
9.2.7	Chilled Water System	NUREG-0800	A) Use SRP Section	
9.3.1	Compressed Air System	NUREG-0800	A) Use SRP Section	
9.3.2	Process and Post Accident Sampling Systems	ML15131A298	C) Develop new DSRS Section	
9.3.3	Equipment and Floor Drainage System	NUREG-0800	A) Use SRP Section	
9.3.4	Chemical and Volume Control System (PWR) Including Boron Recovery System	ML15131A305	C) Develop new DSRS Section	
9.3.5	Standby Liquid Control System (BWR)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
9.3.6	Containment Evacuation and Flooding Systems	ML15112A190	C) Develop new DSRS Section	
9.4.1	Control Room Area Ventilation System	NUREG-0800	A) Use SRP Section	
9.4.2	Spent Fuel Pool Area Ventilation System	NUREG-0800	A) Use SRP Section	

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9.4.3	Reactor Service Building HVAC Systems	NUREG-0800	A) Use SRP Section	
9.4.4	Turbine Area Ventilation System	NUREG-0800	A) Use SRP Section	
9.4.5	Engineered Safety Feature Ventilation System	NUREG-0800	A) Use SRP Section	
9.5.1.1	Fire Protection Program	NUREG-0800	A) Use SRP Section	
9.5.1.2	Risk Informed (RI), Performance Based (PB) Fire Protection Program	NUREG-0800	A) Use SRP Section	
9.5.2	Communications Systems	ML15084A403	C) Develop new DSRS Section	
9.5.3	Lighting Systems	ML15112A148	C) Develop new DSRS Section	
9.5.4	Emergency Diesel Engine Fuel Oil Storage and Transfer System	NUREG-0800	A) Use SRP Section	
9.5.5	Emergency Diesel Engine Cooling Water System	NUREG-0800	A) Use SRP Section	
9.5.6	Emergency Diesel Engine Starting System	NUREG-0800	A) Use SRP Section	
9.5.7	Emergency Diesel Engine Lubrication System	NUREG-0800	A) Use SRP Section	
9.5.8	Emergency Diesel Engine Combustion Air Intake and Exhaust System	NUREG-0800	A) Use SRP Section	

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10.2	Turbine Generator	ML15126A086	C) Develop new DSRS Section	
10.2.3	Turbine Rotor Integrity	ML15127A046	C) Develop new DSRS Section	
10.3	Main Steam Supply System	ML15131A329	C) Develop new DSRS Section	
10.3.6	Steam and Feedwater System Materials	NUREG-0800	A) Use SRP Section	
10.4.1	Main Condensers	ML15127A049	C) Develop new DSRS Section	
10.4.2	Main Condenser Evacuation System	ML15127A349	C) Develop new DSRS Section	
10.4.3	Turbine Gland Sealing System	ML15126A477	C) Develop new DSRS Section	
10.4.4	Turbine Bypass System	ML15131A417	C) Develop new DSRS Section	
10.4.5	Circulating Water System	ML15126A467	C) Develop new DSRS Section	
10.4.6	Condensate Cleanup System	ML15118A943	C) Develop new DSRS Section	
10.4.7	Condensate and Feedwater System	ML15126A470	C) Develop new DSRS Section	
10.4.8	Steam Generator Blowdown System	NUREG-0800	A) Use SRP Section	
10.4.9	Auxiliary Feedwater System (PWR)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	

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10.4.10	Auxiliary Boiler System	ML15131A261	C) Develop new DSRS Section	
BTP 10-1	Design Guidelines for Auxiliary Feedwater System Pump Drive and Power Supply Diversity for Pressurized Water Reactor Plants	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
BTP 10-2	Design Guidelines for Avoiding Water Hammers in Steam Generators	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
11.1	Source Terms	ML15112A526	C) Develop new DSRS Section	<i>SRP Section is in the process of an update.</i>
11.2	Liquid Waste Management Systems	ML15124A607	C) Develop new DSRS Section	<i>SRP Section is in the process of an update.</i>
11.3	Gaseous Waste Management Systems	ML15112A694	C) Develop new DSRS Section	<i>SRP Section is in the process of an update.</i>
11.4	Solid Waste Management Systems	ML15119A057	C) Develop new DSRS Section	<i>SRP Section is in the process of an update.</i>
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	ML15118A609	C) Develop new DSRS Section	<i>SRP Section is in the process of an update.</i>

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11.6	Guidance on Instrumentation and Control Design Features for Process and Effluent Radiological Monitoring, and Area Radiation and Airborne Radioactivity Monitoring	ML15125A367	C) Develop new DSRS Section	<i>SRP Section is in the process of an update.</i>
BTP 11-3	Design Guidance for Solid Radioactive Waste Management Systems Installed in Light-Water - Cooled Nuclear Power Reactor Plants	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
BTP 11-5	Postulated Radioactive Releases Due to a Waste Gas System Leak or Failure	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
BTP 11-6	Postulated Radioactive Releases Due to Liquid-Containing Tank Failures	NUREG-0800	A) Use SRP Section	<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	NUREG-0800	A) Use SRP Section	
12.2	Radiation Sources	ML15070A194	C) Develop new DSRS Section	

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12.3 - 12.4	Radiation Protection Design Features	ML15070A204	C) Develop new DSRS Section	
12.5	Operational Radiation Protection Program	ML15070A210	C) Develop new DSRS Section	
13.1.1	Management and Technical Support Organization	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
13.1.2 - 13.1.3	Operating Organization	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
13.2.1	Reactor Operator Requalification Program; Reactor Operator Training	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
13.2.2	Non- Licensed Plant Staff Training	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
13.3	Emergency Planning	NUREG-0800	A) Use SRP Section	
13.4	Operational Programs	NUREG-0800	A) Use SRP Section	
13.5.1.1	Administrative Procedures - General	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
13.5.1.2	Administrative Procedures - Initial Test Program	NUREG-0800	A) Use SRP Section	
13.5.2.1	Operating and Emergency Operating Procedures	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
13.5.2.2	Maintenance and Other Operating Procedures	NUREG-0800	A) Use SRP Section	
13.6	Physical Security	NUREG-0800	A) Use SRP Section	

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13.6.1	Physical Security - Combined License and Operating Reactors	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
13.6.2	Physical Security - Design Certification	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
13.6.3	Physical Security - Early Site Permit	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
13.6.4	Access Authorization Operational Program	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
13.6.6	Cyber Security Plan	NUREG-0800	A) Use SRP Section	
14.2	Initial Plant Test Program - Design Certification and New License Applicants	ML15084A407	C) Develop new DSRS Section	
14.2.1	Generic Guidelines for Extended Power Uprate Testing Programs	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
14.3	Inspections, Tests, Analyses, and Acceptance Criteria	NUREG-0800	A) Use SRP Section	
14.3.1	Site Parameters - Inspections, Tests, Analyses, and Acceptance Criteria	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
14.3.2	Structural and Systems Engineering - Inspections, Tests, Analyses, and Acceptance Criteria	ML15084A411	C) Develop new DSRS Section	

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14.3.3	Piping Systems and Components - Inspections, Tests, Analyses, and Acceptance Criteria	NUREG-0800	A) Use SRP Section	
14.3.4	Reactor Systems - Inspections, Tests, Analyses, and Acceptance Criteria	ML15125A294	C) Develop new DSRS Section	
14.3.5	Instrumentation and Controls - Inspections, Tests, Analyses, and Acceptance Criteria	ML15127A383	C) Develop new DSRS Section	
14.3.6	Electrical Systems - Inspections, Tests, Analyses, and Acceptance Criteria	ML15127A373	C) Develop new DSRS Section	
14.3.7	Plant Systems - Inspections, Tests, Analyses, and Acceptance Criteria	ML15131A328	C) Develop new DSRS Section	
14.3.8	Radiation Protection - Inspections, Tests, Analyses, and Acceptance Criteria	ML15127A385	C) Develop new DSRS Section	

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14.3.9	Human Factors Engineering - Inspections, Tests, Analyses, and Acceptance Criteria	NUREG-0800	A) Use SRP Section	
14.3.10	Emergency Preparedness (formerly Initial Test Program and D-RAP) - Inspections, Tests, Analyses, and Acceptance Criteria	NUREG-0800	A) Use SRP Section	
14.3.11	Containment Systems - Inspections, Tests, Analyses, and Acceptance Criteria	NUREG-0800	A) Use SRP Section	
14.3.12	Physical Security Hardware - Inspections, Tests, Analyses, and Acceptance Criteria	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.0	Introduction—Transient and Accident Analyses	ML15125A297	C) Develop new DSRS Section	
15.0.1	Radiological Consequence Analyses Using Alternate Source Terms	NUREG-0800	A) Use SRP Section	
15.0.2	Review of Transient and Accident Analysis Methods	NUREG-0800	A) Use SRP Section	

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15.0.3	Design Basis Accident Radiological Consequence Analyses for Advanced Light Water Reactors	ML15127A387	C) Develop new DSRS Section	
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	ML15127A391	C) Develop new DSRS Section	
15.1.5	Steam System Piping Failures Inside and Outside of Containment	ML15125A317	C) Develop new DSRS Section	
15.1.6	Loss of Containment Vacuum	ML15127A395	C) Develop new DSRS Section	
15.1.5.A	Radiological Consequences of Main Steam Line Failures Outside Containment of a PWR	NUREG-0800	A) Use SRP Section	

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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)	ML15127A400	C) Develop new DSRS Section	
15.2.6	Loss of Nonemergency AC Power to the Station Auxiliaries	ML15125A292	C) Develop new DSRS Section	
15.2.7	Loss of Normal Feedwater Flow	ML15125A293	C) Develop new DSRS Section	
15.2.8	Feedwater System Pipe Breaks Inside and Outside Containment (PWR)	ML15118A927	C) Develop new DSRS Section	
15.3.1 - 15.3.2	Loss of Forced Reactor Coolant Flow Including Trip of Pump Motor and Flow Controller Malfunctions	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.3.3 - 15.3.4	Reactor Coolant Pump Rotor Seizure and Reactor Coolant Pump Shaft Break	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.4.1	Uncontrolled Control Rod Assembly Withdrawal from a Subcritical or Low Power Startup Condition	ML15118A482	C) Develop new DSRS Section	

NuScale Design-Specific Review Standard (DSRS) Scope and Safety Matrix

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NUREG-0800 SRP/DSRS Section No.	NUREG-0800 SRP/DSRS Section Title	ADAMS Accession No. and/or Hyperlink for SRPs and NuScale DSRS Sections ¹	Applicability of NUREG-0800 Section to Design ²	Comments/Additional Guidance Documents to be used for Review, etc. ³
15.4.2	Uncontrolled Control Rod Assembly Withdrawal at Power	ML15118A600	C) Develop new DSRS Section	
15.4.3	Control Rod Misoperation (System Malfunction or Operator Error)	ML15131A364	C) Develop new DSRS Section	
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	NUREG-0800	A) Use SRP Section	
15.4.6	Inadvertent Decrease in Boron Concentration in the Reactor Coolant System (PWR)	ML15118A474	C) Develop new DSRS Section	
15.4.7	Inadvertent Loading and Operation of a Fuel Assembly in an Improper Position	NUREG-0800	A) Use SRP Section	
15.4.8	Spectrum of Rod Ejection Accidents (PWR)	NUREG-0800	A) Use SRP Section	
15.4.8.A	Radiological Consequences of a Control Rod Ejection Accident (PWR)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	

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15.4.9	Spectrum of Rod Drop Accidents (BWR)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.4.9.A	Radiological Consequences of Control Rod Drop Accident (BWR)	NUREG-0800	B) Delete SRP Section for NuScale 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	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.5.1 - 15.5.2	Inadvertent Operation of ECCS and Reactor Coolant Inventory and Purification System (RCI) Malfunction that Increases Reactor Coolant Inventory	ML15125A463	C) Develop new DSRS Section	
15.6.1	Inadvertent Opening of a Pressurizer Safety Valve, or an Automatic Depressurization Valve	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	

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15.6.2	Radiological Consequences of the Failure of Small Lines Carrying Primary Coolant Outside Containment	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.6.3	Radiological Consequences of Steam Generator Tube Failure (PWR)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.6.4	Radiological Consequences of Main Steam Line Failure Outside Containment (BWR)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.6.5	Loss of Coolant Accidents Resulting From Spectrum of Postulated Piping Breaks Within the Reactor Coolant Pressure Boundary	ML15131A334	C) Develop new DSRS Section	
15.6.5.A	Radiological Consequences of a Design Basis Loss-of-Coolant Accident Including Containment Leakage Contribution	NUREG-0800	B) Delete SRP Section for NuScale 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	NUREG-0800	B) Delete SRP Section for NuScale 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)	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.6.6	Inadvertent Opening of a PWR Pressurized Pressure Relief Valve	ML15125A467	C) Develop new DSRS Section	
15.7.3	Postulated Radioactive Releases Due to Liquid-Containing Tank Failures	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.7.4	Radiological Consequences of Fuel Handling Accidents	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.7.5	Spent Fuel Cask Drop Accidents	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	

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15.8	Anticipated Transients Without Scram	NUREG-0800	A) Use SRP Section	
15.9	Boiling Water Reactor Stability	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
15.9.A	Thermal Hydraulic Stability	ML15131A311	C) Develop new DSRS Section	
16.0	Technical Specifications	ML15131A316	C) Develop new DSRS Section	
16.1	Risk-Informed Decision Making: Technical Specifications	NUREG-0800	A) Use SRP Section	
17.1	Quality Assurance During the Construction Phases	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
17.2	Quality Assurance During the Operations Phase	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
17.3	Quality Assurance Program Description	NUREG-0800	B) Delete SRP Section for NuScale review (N/A)	
17.4	Reliability Assurance Program (RAP)	NUREG-0800	A) Use SRP Section	

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17.5	Quality Assurance Program Description - Design Certification, Early Site Permit and New License Applicants	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
17.6	Maintenance Rule	NUREG-0800	A) Use SRP Section	
18.0	Human Factors Engineering	NUREG-0800	A) Use SRP Section	<i>SRP Section is in the process of an update.</i>
19.0	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	NUREG-0800	A) Use SRP Section	<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	NUREG-0800	A) Use SRP Section	
19.2	Review of Risk Information Used to Support Permanent Plant-Specific Changes to the Licensing Basis: General Guidance	NUREG-0800	A) Use SRP Section	
19.3	Regulatory Treatment of Non-Safety Systems for Passive Advanced Light Water Reactors	NUREG-0800	A) Use SRP Section	<i>New SRP Section in the process of initial issuance.</i>

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19.4	Strategies and Guidance to Address Loss of Large Areas of the Plant Due to Explosions or Fires	NUREG-0800	A) Use SRP Section	<i>New SRP Section in the process of initial issuance.</i>
19.5	Adequacy of Design Features and Functional Capabilities Identified and Described for Withstanding Aircraft Impacts	NUREG-0800	A) Use SRP Section	<i>New SRP Section in the process of initial issuance.</i>