ABWR Finality Matrix

Revision 4

26-Sep-07

SRP section no.	SRP section title	FSER Section #	FSER Section Title	DCD Section No.	DCD Section Title	COL Issues for NRC Review: COL Items: COL Issue Title	Table 1.9 COL Info. Item No.	DCD Subsection Ref.	Additional DCD References	Interfaces for Standard Design (Item No.)	DAC/ITAAC for NRO Review	Generic Design Change	Plant Specific Design Departure	Operational Program	Tech. Rpt. No.	Departure Status Report (See Tier 1 Departures at Bottom of Matrix)	Generic Issue	ESP action item	Comments	Closure References: DC FSER Section	SSER Section	Other	Consistent with RG 1.206, C.III - to be added later
1																							
1.0	Introductions and Interfaces	1.0	Introduction and General Discussion	1.0	Introduction and General Description of Plant																		
1.0	Introductions and Interfaces	1.1	Introduction	1.1	Introduction	Design Process to Establish Detailed Design Documentation	1.1	1.1.11.1	1.1.4														
1.0	Introductions and Interfaces	1.1	Introduction	1.1	Introduction	Detailed Design Implementation Process (LTR Expected from Applicant)									LTR Expected from Applicant								
1.0	Introductions and Interfaces	1.1	Introduction	1.1	Introduction	Type of License Required										STP DEP 1.1-1							
1.0	Introductions and Interfaces	1.1	Introduction	1.1	Introduction	Dual Units at STP										STP DEP 1.1-2							
1.0	Introductions and Interfaces	1.2	General Design Description	1.2	General Plant Description	Plant Design and Aging Management	1.1a	1.2.3.1	1.2.1.3														
1.0	Introductions and Interfaces	1.2	General Design Description	1.2	General Plant Description	ABWR Life Cycle Management (NEDO-33321)									NEDO-33321								
1.0	Introductions and Interfaces	1.2	General Design Description	1.2	General Plant Description	ABWR Plant Medium Voltage Electrical System Design (NEDO-33335)									NEDO-33335								
1.0	Introductions and Interfaces	1.2	General Design Description	1.2	General Plant Description	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
1.0	Introductions and Interfaces	1.2	General Design Description	1.2	General Plant Description	Control Building Addition										STP DEP 1.2-1							
1.0	Introductions and Interfaces	1.4	Identification of Agents and Contractors	1.4	Identification of Agents and Contractors																		
1.0	Introductions and Interfaces	1.5	Summary of Principal Review Matters	1.5	Requirements for Further Technical Information																		
1.0	Introductions and Interfaces	1.6	Index of Applicable Regulations and Exemptions	1.6	GE Topical Reports and Other Documents																		
1.0	Introductions and Interfaces	1.7	Index of Tier 2* Information	1.7	Drawings	P&ID Pipe Schedule	1.2	1.7.6.1															
1.0	Introductions and Interfaces	1.7	Index of Tier 2* Information	1.7	Drawings	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
1.8	Interfaces for Standard Designs	1.8	Index of Confirmatory Items	1.8	Conformance with Standard Review Plan and Applicability of Codes and Standards	Experience Information	1.4	1.8.4.2	1.8.3														
1.8	Interfaces for Standard Designs	1.8	Index of Confirmatory Items	1.8	Conformance with Standard Review Plan and Applicability of Codes and Standards	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
1.8	Interfaces for Standard Designs	1.8		1.8	Conformance with Standard Review Plan and Applicability of Codes and Standards	Civil Code Change										STP DEP 1.8-1							
		20.4	TMI Action Plan Items	1A	Response to TMI Related Matters	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
		20.4.11	Operating Procedures - Short-Term Accident Analysis and Procedures Revision	1A.2.1	Short-Term Accident Analysis Procedure Revision [I.C.1(3)]	Emergency Procedures and Emergency Procedures Training Program	1.5	1A.3.1	1A.2.1														
		20.4.53	Measures to Mitigate Small-Break Loss-of-Coolant Accidents and Loss-of-Feedwater Accidents -- IE Bulletins - Review and Modify Procedures for Removing Safety-Related Systems from Service	1A.2.18	Safety-Related Valve Position Indication [II.K.1(5)]	Review and Modify Procedures for Removing Safety-Related Systems from Service	1.6	1A.3.2	1A.2.18, 1A.2.19														
		20.4.53	Measures to Mitigate Small-Break Loss-of-Coolant Accidents and Loss-of-Feedwater Accidents -- IE Bulletins - Review and Modify Procedures for Removing Safety-Related Systems from Service	1A.2.19	Review and Modify Procedures for Removing Safety-Related Systems from Service [II.K.1(10)]	Review and Modify Procedures for Removing Safety-Related Systems from Service	2.6	1A.3.3	1A.2.18, 1A.2.19														

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						COL Issue Title	COL Items: Table 1.9 COL Info. Item No.	COL Items: DCD Subsection Ref.	COL Items: Additional DCD References	Interfaces for Standard Design (Item No.)	DAC/ITAAC for NRO Review	Generic Design Change	Plant Specific Design Departure	Operational Program	Tech. Rpt. No.	Departure Status Report (See Tier 1 Departures at Bottom of Matrix)	Generic Issue	ESP action item		DC FSER Section	SSER Section	Other	
		20.4.86	Radiation Protection -- Worker Radiation Protection Improvement - Inplant Radiation Monitoring	1A.2.35	In-Plant Radiation Monitoring [II.D.3.3(3)]	In-plant Radiation Monitoring	1.7	1A.3.3	1A.2.35														
		20.4.56	Measures to Mitigate Small-Break Loss-of-Coolant Accidents and Loss-of-Feedwater Accidents -- Describe Uses and Types of RV Level Indication for Automatic and Manual Initiation Safety Systems	1A.2.21.1	Failure of PORV or Safety to Close [II.K.3.(3)]	Reporting Failures of Reactor System Relief Valves	1.8	1A.3.4	1A.2.21.1														
		20.4.66	Measures to Mitigate Small-Break Loss-of-Coolant Accidents and Loss-of-Feedwater Accidents -- Final Recommendations of Bulletins and Orders Task Force - Report on Outage of ECC Systems; Licensee Report and Technical Specification Changes	1A.2.25	Report on Outages of Emergency Core Cooling Systems Licensee Report and Proposed Technical Specification Changes [II.K.3(17)]	Report on ECCS Outages	1.9	1A.3.5	1A.2.25														
		20.5.18	Consideration of Degraded or Melted Cores in Safety Review - Reactor Coolant System Vents	1A.2.5	Reactor Coolant System Vents [II.B.1]	Procedure for Reactor Venting	1.10	1A.3.6	1A.2.5														
		20.4.34	Reactor Coolant System Relief and Safety Valves Testing Requirements	1A2.9	Coolant System Valves—Testing Requirements [II.D.1]	Testing of SRV and Discharge Piping	1.11	1A.3.7	1A2.9														
		20.4.64	Measures to Mitigate Small-Break Loss-of-Coolant Accidents and Loss-of-Feedwater Accidents -- Final Recommendations of Bulletins and Orders Task Force - Modify Break Detection Logic to Prevent Spurious Isolation of HPCI and RCIC Systems	1A.2.23	Modify Break-Detection Logic to Prevent Spurious Isolation of HPCI and RCIC Systems [II.K.3(15)]	RCIC Bypass Start System Test	1.12	1A.3.8	1A.2.23														
				1C	ABWR Station Blackout Considerations	ABWR Plant Medium Voltage Electrical System Design (NEDO-33335)									NEDO-33335								
		20.1.17	Station Blackout (former USI)	1C.2.5.3	Station Blackout Procedures	Station Blackout Procedures	1.13	1C.4.1	1C.2.5.3														
2																							
2	Site Characteristics and Site Parameters	2.6	Site Parmeter Envelope	2.0	Site Characteristics	Non-Seismic Design Parameters	2.1	2.3.1.1	2.2.1														
~~2~~	~~Site Characteristics and Site Parameters~~	~~2.6~~	~~Site Parmeter Envelope~~	~~2.0~~	~~Site Characteristics~~	~~Site-Specific Design Basis Wind~~	~~3.1~~	~~3.3.3.1~~	~~2.2.1~~														
~~2~~	~~Site Characteristics and Site Parameters~~	~~2.6~~	~~Site Parmeter Envelope~~	~~2.0~~	~~Site Characteristics~~	~~Site-Specific Design Basis Tornado~~	~~3.2~~	~~3.3.3.2~~	~~2.2.1~~														
2.2.3	Evaluation of Potential Accidents	2.2.3	Evaluation of Potential Accidents	2.2.2	Severe Accidents	CRAC 2 Computer Code Calculations	2.42	2.3.3	2.2.2														
3.7.1	Seismic Design Parameters	2.6.3	Seismology Site Parameters	2.3.1	Envelope of Standard Plant Design Parameters	Seismic Design Parameters	2.2	2.3.1.2															
2.1.1	Site Location and Description	2.1.1	Site Location and Description	2.3.2	Standard Review Plant Site Characteristics	Site Location and Description	2.3	2.3.2.1															
2.1.2	Exclusion Area Authority and Control	2.1.2	Exclusion Area Authority and Control	2.3.2	Standard Review Plant Site Characteristics	Exclusion Area Authority and Control	2.4	2.3.2.2															
2.1.3	Population Distribution	2.1.3	Population Distribution	2.3.2	Standard Review Plant Site Characteristics	Population Distribution	2.5	2.3.2.3															
2.2.1-2.2.2	Identification of Potential Hazards in Site Vicinity	2.2.1-2.2.2	Identification of Potential Hazards in Site Vicinity	2.3.2	Standard Review Plant Site Characteristics	Identification of Potential Hazards in Site Vicinity	2.6	2.3.2.4															
2.2.3	Evaluation of Potential Accidents	2.2.3	Evaluation of Potential Accidents	2.3.2	Standard Review Plant Site Characteristics	Evaluation of Potential Accidents	2.7	2.3.2.5															
2.2.3	Evaluation of Potential Accidents	2.2.3	Evaluation of Potential Accidents	2.3.2	Standard Review Plant Site Characteristics	External Impact Hazards	2.8	2.3.2.6															
2.3.2	Local Meteorology	2.3.2	Local Meteorology	2.3.2	Standard Review Plant Site Characteristics	Local Meteorology	2.9	2.3.2.7															
2.3.3	Onsite Meteorological Measurements Programs	2.3.3	Onsite Meteorological Measurements Programs	2.3.2	Standard Review Plant Site Characteristics	Onsite Meteorological Measurements Program	2.10	2.3.2.8															

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2.3.3	Onsite Meteorological Measurements Programs	2.3.3	Onsite Meteorological Measurements Programs	2.3.2	Standard Review Plant Site Characteristics	Onsite Meteorological Measurements Program (LTR Expected from Applicant)									LTR Expected from Applicant								
2.3.4	Short Term Dispersion Estimates for Accident Releases	2.3.4	Short Term Dispersion Estimates for Accidental Atmospheric Releases	2.3.2	Standard Review Plant Site Characteristics	Short-Term Dispersion Estimates for Accident Atmosphere Releases	2.11	2.3.2.9															
2.3.5	Long Term Atmospheric Dispersion Estimates for Routine Releases	2.3.5	Long Term Diffusion Estimates	2.3.2	Standard Review Plant Site Characteristics	Long-Term Diffusion Estimates	2.12	2.3.2.10															
2.4.1	Hydrologic Description	2.4.1	Hydrologic Description	2.3.2	Standard Review Plant Site Characteristics	Hydrologic Description	2.13	2.3.2.11															
2.4.2	Floods	2.4.2	Floods	2.3.2	Standard Review Plant Site Characteristics	Floods	2.14	2.3.2.12															
2.4.3	Probable Maximum Flood (PMF) on Streams and Rivers	2.4.3	Probable Maximum Flood (PMF) on Streams and Rivers	2.3.2	Standard Review Plant Site Characteristics	Probable Maximum Flood on Streams and Rivers	2.15	2.3.2.13															
2.4.7	Ice Effects	2.4.4	Ice Effects	2.3.2	Standard Review Plant Site Characteristics	Ice Effects	2.16	2.3.2.14															
2.4.8	Cooling Water Canals and Reservoirs	2.4.5	Cooling Water Channels and Reservoirs	2.3.2	Standard Review Plant Site Characteristics	Cooling Water Channels and Reservoirs	2.17	2.3.2.15															
2.4.9	Channel Diversions	2.4.6	Channel Diversion	2.3.2	Standard Review Plant Site Characteristics	Channel Division	2.18	2.3.2.16															
2.4.10	Flooding Protection Requirements	2.4.7	Flooding Protection Requirements	2.3.2	Standard Review Plant Site Characteristics	Flooding Protection Requirements	2.19	2.3.2.17															
2.4.11	Low Water Considerations	2.4.8	Cooling Water Supply	2.3.2	Standard Review Plant Site Characteristics	Cooling Water Supply	2.20	2.3.2.18															
2.4.12	Groundwater	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Effect of Groundwater	2.32	2.3.2.30															
2.4.13	Accidental Releases of Liquid Effluents in Ground and Surface Waters	2.4.9	Accidental Release of Liquid Effluents in Ground and Surface Waters	2.3.2	Standard Review Plant Site Characteristics	Accidental Release of Liquid Effluents in Ground and Surface Waters	2.21	2.3.2.19															
2.4.14	Technical Specifications and Emergency Operation Requirements	2.4.10	Technical Specification and Emergency Operation Requirement	2.3.2	Standard Review Plant Site Characteristics	Technical Specifications and Emergency Operation Requirement	2.22	2.3.2.20															
2.5.1	Basic Geologic and Seismic Information	2.5.1	Basic Geologic and Seismic Information	2.3.2	Standard Review Plant Site Characteristics	Basic Geological and Seismic Information	2.23	2.3.2.21															
2.5.2	Vibratory Ground Motion	2.5.2	Vibratory Ground Motion	2.3.2	Standard Review Plant Site Characteristics	Vibratory Ground Motion	2.24	2.3.2.22															
2.5.3	Surface Faulting	2.5.3	Surface Faulting	2.3.2	Standard Review Plant Site Characteristics	Surface Faulting	2.25	2.3.2.23															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Stability of Subsurface Material and Foundation	2.26	2.3.2.24															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Site and Facilities	2.27	2.3.2.25															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Field Investigations	2.28	2.3.2.26															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Laboratory Investigations	2.29	2.3.2.27															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Subsurface Conditions	2.30	2.3.2.28															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Evacuation and Backfilling for Foundation Construction	2.31	2.3.2.29															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Liquefaction Potential	2.33	2.3.2.31															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Response of Soil and Rock to Dynamic Loading	2.34	2.3.2.32															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Minimum Static Bearing Capacity	2.35	2.3.2.33															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Earth Pressures	2.36	2.3.2.34															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Soil Properties for Seismic Analysis of Buried Pipes	2.37	2.3.2.35															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Static and Dynamic Stability of Facilities	2.38	2.3.2.36															
2.5.4	Stability of Subsurface Materials and Foundations	2.5.4	Stability of Subsurface Materials and Foundations	2.3.2	Standard Review Plant Site Characteristics	Subsurface Instrumentation	2.39	2.3.2.37															
2.5.5	Stability of Slopes	2.6.2	Water Level (Flood) Design Site parameters	2.3.2	Standard Review Plant Site Characteristics	Stability of Slopes	2.40	2.3.2.38															

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2.5.5	Stability of Slopes	2.6.2	Water Level (Flood) Design Site parameters	2.3.2	Standard Review Plant Site Characteristics	Embankments and Dams	2.41	2.3.2.39															
2.3.1	Regional Climatology	2.3.1	Regional Climatology																				
2.4.4	Potential Dam Failures	2.6.2	Water Level (Flood) Design Site parameters																				
2.4.5	Probable Maximum Surge and Seiche Flooding	2.6.2	Water Level (Flood) Design Site parameters																				
2.4.6	Probable Maximum Tsunami Flooding	2.6.2	Water Level (Flood) Design Site parameters																				
				2.4																			
				2.4																			
				2.4																			
3	**Design of Structures, Components, Equipment and Systems**																						
				3.1	Conformance with NRC General Design Criteria	Dual Units at STP										STP DEP 3.1-2							
		3.2	Classification of Structures, Systems, and Components	3.2	Classification of Structures, Components, and Systems	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
		3.2	Classification of Structures, Systems, and Components	3.2	Classification of Structures, Components, and Systems	ABWR With Alternate RCIC Turbine Pump Design (NEDE-33299)									NEDE-33299								
3.2.1	Seismic Classification	3.2.1	Seismic Classification	3.2.1	Seismic Classification																		
3.2.2	System Quality Group Classification	3.2.2	System Quality Group Classification	3.2.2	Quality Group Classifications																		
3.3.1	Wind Loadings	3.3.1	Wind Design Criteria	3.3.1	Wind Loadings	Site-Specific Design Basis Wind	3.1	3.3.3.1	3.3.1.1														
3.3.1	Wind Loadings	3.3.1	Wind Design Criteria	3.3.1	Wind Loadings	Effect of Remainder of Plant Structures, Systems and Components Not Designed for Wind Loads	3.3	3.3.3.3	3.3.1.1														
3.3.2	Tornado Loadings	3.3.2	Tornado Design Criteria	3.3.2	Tornado Loadings	Site-Specific Design Basis Tornado	3.2	3.3.3.2	3.3.2.1														
3.3.2	Tornado Loadings	3.3.2	Tornado Design Criteria	3.3.2	Tornado Loadings	Effect of Remainder of Plant Structures, Systems and Components Not Designed for Tornado Loads	3.4	3.3.3.4	3.3.2.3														
		3.4	Water Level (Flood) Design	3.4	Water Level (Flood) Design	Flood Elevation	3.5	3.4.3.1	3.4														
		3.4	Water Level (Flood) Design	3.4	Water Level (Flood) Design	Ground Water Elevation	3.6	3.4.3.2	3.4														
		~~3.4~~	~~Water Level (Flood) Design~~	~~3.4~~	~~Water Level (Flood) Design~~	~~Flood Protection Requirements for Other Structures~~	~~3.7~~	~~3.4.3.3~~	~~3.4~~														
3.4.1	Internal Flood Protection for Onsite Equipment Failures	3.4.1	Flood Protection	3.4.1	Flood Protection	Flood Protection Requirements for Other Structures	3.7	3.4.3.3	3.4														
3.4.2	Analysis Procedures	3.4.2	Water Level (Flood) Design Procedure	3.4.2	Analytical and Test Procedures																		
		3.5	Missiles	3.5	Missile Protection	Turbine Missiles										STP DEP 3.5-1							
		3.5.1	Missile Selection and Description	3.5.1	Missile Selection and Description																		
3.5.1.1	Internally Generated Missiles (Outside Containment)	3.5.1	Missile Selection and Description	3.5.1.1	~~Missile Selection and Description~~ Internally Generated Missiles (Outside Containment)	~~Turbine System Maintenance Program~~	~~3.13~~	~~3.5.4.5~~	~~3.5.1.1.1.3~~														
3.5.1.2	Internally-Generated Missiles (Inside Containment)	3.5.1	Missile Selection and Description	3.5.1.2	~~Missile Selection and Description~~ Internally Generated Missiles (Inside Containment)	Maintenance Equipment Missile Prevention Inside Containment	3.14	3.5.4.6	3.5.1.2.3														
3.5.1.3	Turbine Missiles	3.5.1	Missile Selection and Description	3.5.1.3	~~Missile Selection and Description~~ Turbine Missiles	Turbine System Maintenance Program	3.13	3.5.4.5	3.5.1.1.1.3														
3.5.1.4	Missiles Generated by Tornadoes and Extreme Winds	3.5.1	Missile Selection and Description	3.5.1.4	~~Missile Selection and Description~~ Missiles Generated by Natural Phenomena	Missiles Generated by Other Natural Phenomena	3.10	3.5.4.2	3.5.1.4														
3.5.1.4	Missiles Generated by Tornadoes and Extreme Winds	3.5.1	Missile Selection and Description	3.5.1.4	~~Missile Selection and Description~~ Missiles Generated by Natural Phenomena	Impact of Failure of Out of ABWR Standard Plant Scope Non-Safety-Related Structures, Systems, and Components Due to a Design Basis Tornado	3.12	3.5.4.4	3.5.1.4														
3.5.1.5	Site Proximity Missiles (Except Aircraft)	3.5.1	Missile Selection and Description	3.5.1	Missile Selection and Description																		
3.5.1.6	Aircraft Hazards	3.5.1	Missile Selection and Description	3.5.1	Missile Selection and Description	Site Proximity Missiles and Aircraft Hazards	3.11	3.5.4.3	3.5.1.6														

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3.5.2	Structures, Systems, and Components to be Protected from Externally-Generated Missiles	3.5.2	Structures, Systems, and Components to be Protected from Externally Generated Missiles	3.5.2	Structures, Systems, and Components to be Protected from Externally Generated Missiles	Protection of Ultimate Heat Sink	3.9	3.5.4.1	3.5.2														
3.5.2	Structures, Systems, and Components to be Protected from Externally-Generated Missiles	3.5.2	Structures, Systems, and Components to be Protected from Externally Generated Missiles	3.5.2	Structures, Systems, and Components to be Protected from Externally Generated Missiles	Failure of Structures, Systems, and Components Outside ABWR Standard Plant Scope	3.15	3.5.4.7	3.5.2														
3.5.3	Barrier Design Procedures	3.5.3	Barrier Design Procedure	3.5.3	Barrier Design Procedures																		
3.6.1	Plant Design for Protection Agains Postulated Piping Failures in Fluid Systems Outside Containment	3.6.1	Plant Design for Protection Against Postulated Piping Failure in Fluid Systems Outside Containment	3.6.1	Postulated Piping Failures in Fluid Systems Inside and Outside of Containment	Details of Pipe Break Analysis Results and Protection Methods	3.16	3.6.5.1	3.6.1.3.2.2														
3.6.1	Plant Design for Protection Agains Postulated Piping Failures in Fluid Systems Outside Containment	3.6.1	Plant Design for Protection Against Postulated Piping Failure in Fluid Systems Outside Containment	3.6.1	Postulated Piping Failures in Fluid Systems Inside and Outside of Containment	Details of Pipe Break Analysis Results and Protection Methods	3.16	3.6.5.1	3.6.1.1.1														
3.6.2	Determination of Rupture Locations and Dynamic Effects Associated with the Postulated Rupture of Piping	3.6.2	Determination of Rupture Locations and Dynamic Effects Associated with the Postulated Rupture o Piping	3.6.2	Determination of Break Locations and Dynamic Effects Associated with the Postulated Rupture of Piping	Details of Pipe Break Analysis Results and Protection Methods	3.16	3.6.5.1	3.6.2.5														
3.6.2	Determination of Rupture Locations and Dynamic Effects Associated with the Postulated Rupture of Piping	3.6.2	Determination of Rupture Locations and Dynamic Effects Associated with the Postulated Rupture o Piping	3.6.2	Determination of Break Locations and Dynamic Effects Associated with the Postulated Rupture of Piping	Inservice Inspection of Piping in Containment Penetration Areas	3.18	3.6.5.3	3.6.2.1.4.2														
3.6.3	Leak-Before-Break Evaluation Procedures	3.6.3	Leak-Before-Break Evaluation Procedures	3.6.3	Leak-Before-Break Evaluation Procedures	Leak-Before-Break Analysis Report	3.17	3.6.5.2	3.6.3														
3.6.2	Determination of Rupture Locations and Dynamic Effects Associated with the Postulated Rupture of Piping	3.6.2	Determination of Rupture Locations and Dynamic Effects Associated with the Postulated Rupture o Piping	3.6.4	As-Built Inspection of High-Energy Pipe Break Mitigation Features	Details of Pipe Break Analysis Results and Protection Methods	3.16	3.6.5.1	3.6.4														
3.7.1	Seismic Design Parameters	3.7.1	Seismic Design Parameters	3.7.1	Seismic Input	Seismic Design Parameters	3.19	3.7.5.1	2.3.1.2										DCD 3.7.5.1 refers back to 2.3.1.2, which refers forward to 3.7.1				
3.7.2	Seismic System Analysis	3.7.2	Seismic System Analysis	3.7.2	Seismic System Analysis	Assessment of Interaction Due to Seismic Effects	3.22	3.7.5.4	3.7.2.8														
3.7.3	Seismic Subsystem Analysis	3.7.3	Seismic Subsystem Analysis	3.7.3	Seismic Subsystem Analysis	Piping Analysis, Modeling of Piping Supports	3.21	3.7.5.3	3.7.3.3.1.6														
3.7.4	Seismic Instrumentation	3.7.4	Seismic Instrumentation	3.7.4	Seismic Instrumentation	Pre-Earthquake Planning and Post-Earthquake Actions	3.20	3.7.5.2	3.7.4														
3.7.4	Seismic Instrumentation	3.7.4	Seismic Instrumentation	3.7.4	Seismic Instrumentation	Pre-Earthquake Planning and Post-Earthquake Actions	3.20	3.7.5.2	3.7.4.4														
		3.8	Design of Seismic Category I Structures	3.8	Seismic Category I Structures	Resizing of the Radwaste Building										STP DEP 3.8-1							
3.8.1	Concrete Containment	3.8.1	Concrete Containment	3.8.1	Concrete Containment	Structural Integrity Pressure Results	3.25	3.8.6.3	3.8.1.7.1														
3.8.2	Steel Containment	3.8.2	Steel Components of the Reinforced Concrete Containment	3.8.2	Steel Components of the Reinforced Concrete Containment																		
3.8.3	Concrete and Steel Internal Structures of Steel or Concrete Containments	3.8.3	Concrete and Steel Internal Structures of the Steel or Concrete Containment	3.8.3	Concrete and Steel Internal Structures of the Concrete Containment																		
3.8.4	Other Seismic Category I Structures	3.8.4	Other Seismic Category I Structures	3.8.4	Other Seismic Category I Structures	Identification of Seismic Category I Structures	3.26	3.8.6.4	3.8.4														
3.8.5	Foundations	3.8.5	Foundations	3.8.5	Foundations	Foundation Waterproofing	3.23	3.8.6.1	3.8.5.4														
3.8.5	Foundations	3.8.5	Foundations	3.8.5	Foundations	Site Specific Physical Properties and Foundation Settlement	3.24	3.8.6.2	3.8.5.4														
		3.9	Mechanical Systems and Components	3.9	Mechanical Systems and Components	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
		3.9	Mechanical Systems and Components	3.9	Mechanical Systems and Components	ABWR With Alternate RCIC Turbine-Pump Design (NEDE-33299)									NEDE-33299								
3.9.1	Special Topics for Mechanical Components	3.9.1	Special Topics for Mechanical Components	3.9.1	Special Topics for Mechanical Components																		
3.9.2	Dynamic Testing and Analysis of Systems, Structures, and Components	3.9.2	Dynamic Testing and Analysis of Systems, Components, and Equipment	3.9.2	Dynamic Testing and Analysis	Reactor Internals Vibration Analysis Measurement and Inspection Programs	3.27	3.9.7.1	3.9.2.4														

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						COL Issue Title	Table 1.9 COL Info. Item No.	DCD Subsection Ref.	Additional DCD References	Interfaces for Standard Design (Item No.)	DAC/ITAAC for NRO Review	Generic Design Change	Plant Specific Design Departure	Operational Program	Tech. Rpt. No.	Departure Status Report (See Tier 1 Departures at Bottom of Matrix)	Generic Issue	ESP action item		DC FSER Section	SSER Section	Other	
3.9.2	Dynamic Testing and Analysis of Systems, Structures, and Components	3.9.2	Dynamic Testing and Analysis of Systems, Components, and Equipment	3.9.2	Dynamic Testing and Analysis	ABWR Vibration Assessment Program (in compliance with US NRC Regulatory Guide 1.20) (NEDO-33316)									NEDO-33316								
3.9.3	ASME Code Class 1, 2, and 3 Components, and Component Supports, and Core Support Structures	3.9.3	ASME Code Class 1, 2, and 3 Components, and Component Supports, and Core Support Structures	3.9.3	ASME Code Class 1, 2, and 3 Components, Component Supports, and Core Support Structures	Audit of Design Specification and Design Reports	3.30	3.9.7.4	3.9.3.1														
3.9.3	ASME Code Class 1, 2, and 3 Components, and Component Supports, and Core Support Structures	3.9.3	ASME Code Class 1, 2, and 3 Components, and Component Supports, and Core Support Structures	3.9.3	ASME Code Class 1, 2, and 3 Components, Component Supports, and Core Support Structures	ASME Class 2 or 3 or Quality Group Components with 60-Year Design Life	3.28	3.9.7.2	3.9.3.1														
3.9.3	ASME Code Class 1, 2, and 3 Components, and Component Supports, and Core Support Structures	3.9.3	ASME Code Class 1, 2, and 3 Components, and Component Supports, and Core Support Structures	3.9.3	ASME Code Class 1, 2, and 3 Components, Component Supports, and Core Support Structures	Pump and Valve Testing Program	3.29	3.9.7.3	3.9.3.2														
3.9.4	Control Rod Drive Systems	3.9.4	Control Rod Drive Systems	3.9.4	Control Rod Drive (CRD)																		
3.9.5	Reactor Pressure Vessel Internals	3.9.5	Reactor Pressure Vessel Internals	3.9.5	Reactor Pressure Vessel Internals																		
3.9.6	Inservice Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	Pump and Valve Testing Program	3.29	3.9.7.3	3.9.6														
3.9.6	Inservice Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	ABWR Vibration Assessment Program									NEDO-33316				DCD/FSER section does not include Dynamic Restraints				
3.9.6	Inservice Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	Operational Program #2 - Inservice Testing Program								2									
3.9.6	Inservice Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	Operational Program #6 - Preservice Testing Program								6									
3.9.6	Inservice Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	Operational Program #18 - Motor-Operated Valve Testing								18									
3.9.6	Inservice Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	Pump and Valve Testing Program	3.29	3.9.7.3	3.9.6.1														
3.9.6	Inservice Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	Pump and Valve Testing Program	3.29	3.9.7.3	3.9.6.2.1														
3.9.6	Inservice Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	Pump and Valve Testing Program	3.29	3.9.7.3	3.9.6.2.2														
3.9.6	Inservice Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	Pump and Valve Testing Program	3.29	3.9.7.3	3.9.6.2.3														
3.9.6	Inservice Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	3.9.6	Testing of Pumps and Valves	Pump and Valve Testing Program	3.29	3.9.7.3	3.9.6.2.5														
3.9.8	Risk-Informed Inservice Inspection of Piping																						
		3.10	Siesmic and Dynamic Qualifications of Mechanical and Electrical Equipment	3.10	Siesmic and Dynamic Qualifications of Mechanical and Electrical Equipment	Equipment Qualification	3.37	3.10.5.1	3.10														
		3.10	Siesmic and Dynamic Qualifications of Mechanical and Electrical Equipment	3.10.1	Seismic Qualification Criteria (Including Other Dynamic Loads)	Qualification by Experience	3.39	3.10.5.3	3.10.1.1														
		3.10.2	Methods and Procedures of Analysis or Testing of Supports of Electrical Equipment and Instrumentation	3.10.2	Methods and Procedures for Qualifying Electrical Equipment and Instrumentation	Equipment Qualification	3.37	3.10.5.1	3.10.2.1.4														
		3.10.2	Methods and Procedures of Analysis or Testing of Supports of Electrical Equipment and Instrumentation	3.10.2	Methods and Procedures for Qualifying Electrical Equipment and Instrumentation	Equipment Qualification	3.37	3.10.5.1	3.10.2.2.3														
		3.10	Siesmic and Dynamic Qualifications of Mechanical and Electrical Equipment	3.10.4	Operating License Review (Tests and Analyses Results)	Dynamic Qualification Report	3.38	3.10.5.2	3.10.4														
3.11	Environmental Qualification of Mechanical and Electrical Equipment	3.11	Environmental Qualification of Mechanical and Electrical Equipment	3.11	Environmental Qualification of Safety-Related Mechanical and Electrical Equipment	Operational Program #3 - Environmental Qualification Program								3									
3.11	Environmental Qualification of Mechanical and Electrical Equipment	3.11	Environmental Qualification of Mechanical and Electrical Equipment	3.11.1	Equipment Identification and Environmental Conditions	Environmental Qualification Records	3.41	3.11.6.2	3.11.1														
3.11	Environmental Qualification of Mechanical and Electrical Equipment	3.11	Environmental Qualification of Mechanical and Electrical Equipment	3.11.1	Equipment Identification and Environmental Conditions	Surveillance, Maintenance, and Experience Information	3.42	3.11.6.3	3.11.1														
3.11	Environmental Qualification of Mechanical and Electrical Equipment	3.11	Environmental Qualification of Mechanical and Electrical Equipment	3.11.2	Qualification Tests and Analyses	Surveillance, Maintenance, and Experience Information	3.42	3.11.6.3	3.11.2														

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3.11	Environmental Qualification of Mechanical and Electrical Equipment	3.11	Environmental Qualification of Mechanical and Electrical Equipment	3.11.3	Qualification Test Results	Environmental Qualification Document	3.40	3.11.6.1	3.11.3														
				3.13	Secondary Containment and Divisional Separation Zones - Barrier Considerations																		
				3B	Containment Hydrodynamic Loads	Equation Error in Containment Impact Load										STP DEP 3B-1							
				3H	Design Details and Evaluation Results of Seismic Category I Structures	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
				3I.3	Equipment Qualification Environmental Design Criteria	EQ Conditions										STP DEP 3I.3-1							
				3I.3	Equipment Qualification Environmental Design Criteria	EQ Temperatures & Radiation										STP DEP 3I.3-2							
				3I.3.1	Plant Normal Operating Conditions	Radiation Environmental Conditions	3.43	3I.3.3.1	3I.3.1.2														
				3I.3.1	Plant Normal Operating Conditions	Radiation Environmental Conditions	3.43	3I.3.3.1	3I.3.2.2														
3.12	Interfacing System Loss of Coolant Accident (ISLOCA) Design Review for Systems Interfacing with the Reactor Coolant System [new]	3.12.5	Intersystem LOCA	3M	Resoluation of Intersystem System Loss of Coolant Accident for ABWR																		
				3MA	System Evaluation for ISLOCA	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
				3MA	System Evaluation for ISLOCA	ABWR With Alternate RCIC Turbine Pump Design (NEDE-33299)									NEDE-33299								
3.13	Threaded Fasteners																						
4	**Reactor**																						
4.2	Fuel System Design	4.2	Fuel System Design	4.2	Fuel System Design																		
4.3	Nuclear Design	4.3	Nuclear Design	4.3	Nuclear Design	Thermal Hydraulic Stability	4.1	4.3.5.1	4.3.2.6.2														
4.3	Nuclear Design	4.3	Nuclear Design	4.3.2	Description	Fuel Design Stability Compliance (LTR Expected from Applicant)									LTR Expected from Applicant								
4.4	Thermal and Hydraulic Design	4.4	Thermal and Hydraulic Design	4.4	Thermal and Hydraulic Design	Power/Flow Operating Map	4.2	4.4.7.1	4.4.3.3.1														
4.4	Thermal and Hydraulic Design	4.4	Thermal and Hydraulic Design	4.4	Thermal and Hydraulic Design	Thermal Limits	4.3	4.4.7.2	4.4.3.3.1														
4.4	Thermal and Hydraulic Design	4.4	Thermal and Hydraulic Design	4.4	Thermal and Hydraulic Design	ABWR Stability Evaluation (NEDO-33336)									NEDO-33336								
4.4	Thermal and Hydraulic Design	4.4	Thermal and Hydraulic Design	4.4	Thermal and Hydraulic Design	Stability Analysis										STP DEP 4.4-1							
		4.5	Reactor Materials	4.5	Reactor Materials																		
4.5.1	Control Rod Drive Structural Materials	4.5.1	Control Rod Drive System Structural Materials	4.5.1	Control Rod Drive System Structural Materials	CRD Inspection Program	4.4	4.5.3.1	4.5.1.2(1)														
4.5.1	Control Rod Drive Structural Materials	4.5.1	Control Rod Drive System Structural Materials	4.5.1	Control Rod Drive System Structural Materials	Reactor Materials										STP DEP 4.5-1							
4.6	Functional Design of Control Rod Drive System	4.6	Functional Design of Fine Motion Control Rod Drive System	4.6	Functional Design of Reactivity Control System	CRD and FMCRD Installation and Verification During Maintenance	4.5	4.6.6.1															
5	**Reactor Coolant System and Connected Systems**																						
		5.0	Reactor Coolant System and Connected Systems	5.0	Reactor Coolant System and Connected Systems	ABWR Site Parameters										STP DEP 5.0-2							
		5.0	Reactor Coolant System and Connected Systems	5.0	Reactor Coolant System and Connected Systems	ABWR Site Parameters										STP DEP 5.0-3							
		5.2	Reactor Coolant System and Connected Systems	5.2	Reactor Coolant System and Connected Systems	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
		5.2	Reactor Coolant System and Connected Systems	5.2	Reactor Coolant System and Connected Systems	Reactor Coolant Pressure Boundary										STP DEP 5.2-2							
5.2.1.1	Compliance with the Codes and Standards Rule, 10 CFR 50.55a	5.2.1	Compliance with Code and Code Cases	5.2.1	Compliance with Code and Code Cases																		
5.2.1.2	Applicable Code Cases	5.2.1	Compliance with Code and Code Cases	5.2.1	Compliance with Code and Code Cases																		
5.2.2	Overpressure Protection	5.2.2	Overpressure Protection	5.2.2	Overpressure Protection																		
5.2.3	Reactor Coolant Pressure Boundary Materials	5.2.3	Reactor Coolant Pressure Boundary Materials	5.2.3	Reactor Coolant Pressure Boundary Materials																		

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5.2.4	Reactor Coolant Pressure Boundary Inservice Inspection and Testing	5.2.4	Inservice Inspection and Testing of Reactor Coolant Pressure Boundary	5.2.4	Preservice and Inservice Inspection and Testing of Reactor Coolant Pressure Boundary	Operational Program #1 - Inservice Inspection Program								1									
5.2.4	Reactor Coolant Pressure Boundary Inservice Inspection and Testing	5.2.4	Inservice Inspection and Testing of Reactor Coolant Pressure Boundary	5.2.4	Preservice and Inservice Inspection and Testing of Reactor Coolant Pressure Boundary	Operational Program #2 - Inservice Testing Program								2									
5.2.4	Reactor Coolant Pressure Boundary Inservice Inspection and Testing	5.2.4	Inservice Inspection and Testing of Reactor Coolant Pressure Boundary	5.2.4	Preservice and Inservice Inspection and Testing of Reactor Coolant Pressure Boundary	Operational Program #4 - Preservice Inspection Program								4									
5.2.4	Reactor Coolant Pressure Boundary Inservice Inspection and Testing	5.2.4	Inservice Inspection and Testing of Reactor Coolant Pressure Boundary	5.2.4	Preservice and Inservice Inspection and Testing of Reactor Coolant Pressure Boundary	Plant Specific ISI/PSI	5.2	5.2.6.2	5.2.4														
5.2.5	Reactor Coolant Pressure Boundary Leakage Detection	5.2.5	Reactor Coolant Pressure Boundary Leakage Detection	5.2.5	Reactor Coolant Pressure Boundary and Core Cooling Systems Leakage Detection	Reactor Vessel Water Level Instrumentation	5.3	5.2.6.3	5.2.5.2.1														
5.2.5	Reactor Coolant Pressure Boundary Leakage Detection	5.2.5	Reactor Coolant Pressure Boundary Leakage Detection	5.2.5	Reactor Coolant Pressure Boundary and Core Cooling Systems Leakage Detection	Conversion of Indicators	5.1	5.2.6.1	5.2.5.9														
		5.3	Reactor Vessel	5.3	Reactor Vessel	Reactor Vessel										STP DEP 5.3-1							
5.3.1	Reactor Vessel Materials	5.3.1	Reactor Vessel Materials	5.3.1	Reactor Vessel Materials	Operational Program #5 - Reactor Vessel Material Surveillance Program								5									
5.3.1	Reactor Vessel Materials	5.3.1	Reactor Vessel Materials	5.3.1	Reactor Vessel Materials	Fracture Toughness Data	5.4	5.3.4.1	5.3.1.5.1														
5.3.1	Reactor Vessel Materials	5.3.1	Reactor Vessel Materials	5.3.1	Reactor Vessel Materials	Fracture Toughness Data	5.4	5.3.4.1	5.3.1.5.2														
5.3.1	Reactor Vessel Materials	5.3.1	Reactor Vessel Materials	5.3.1	Reactor Vessel Materials	Materials and Surveillance Capsule	5.5	5.3.4.2	5.3.1.6.4														
5.3.1	Reactor Vessel Materials	5.3.1	Reactor Vessel Materials	5.3.1	Reactor Vessel Materials	ABWR Reactor Pressure Vessel (RPV) Material and Surveillance Program (NEDO-33315)									NEDO-33315								
5.3.2	Pressure Temperature Limits and Pressurized Thermal Shock	5.3.2	Pressure-Temperature Limits	5.3.2	Pressure-Temperature Limits	Plant Specific Pressure-Temperature Information	5.6	5.3.4.3	5.3.2														
5.3.2	Pressure Temperature Limits and Pressurized Thermal Shock	5.3.2	Pressure-Temperature Limits	5.3.2	Pressure-Temperature Limits	Plant Specific Pressure-Temperature Information	5.6	5.3.4.3	5.3.2.1														
5.3.3	Reactor Vessel Integrity	5.3.3	Reactor Vessel Integrity	5.3.3	Reactor Vessel Integrity																		
5.4	Components and Subsystem Design	5.4	Components and Subsystem Design	5.4	Component and Subsystem Design	ABWR With Alternate RCIC Turbine Pump Design (NEDE-33299)									NEDE-33299								
5.4	Components and Subsystem Design	5.4	Components and Subsystem Design	5.4	Component and Subsystem Design	Reactor Water Cleanup System										STP DEP 5.4-1							
5.4	Components and Subsystem Design	5.4.1	Reactor Recirculation System	5.4.1	Reactor Recirculation System	RIP Installation and Verification During Maintenance	5.10	5.4.15.4	5.4.1.5														
5.4	Components and Subsystem Design	5.4	Components and Subsystem Design	5.4.5	Main Steamline Isolation System	Testing of Main Steam Isolation Valves	5.7	5.4.15.1	5.4.5.4														
5.4.6	Reactor Core Isolation Cooling System	5.4.6	Reactor Core Isolation Cooling System	5.4.6	Reactor Core Isolation Cooling System	Analyses of 8-hour RCIC Capability	5.8	5.4.15.2	5.4.6.1														
5.4.7	Residual Heat Removal System	5.4.7	Residual Heat Removal System	5.4.7	Residual Heat Removal System	AC-Independent Water Addition (ACIWA) Flow Reduction	5.9	5.4.15.3	5.4.7.1.1.10.3														
5.4.8	Reactor Water Cleanup System (BWR)	5.4.8	Reactor Water Cleanup System	5.4.8	Reactor Water Cleanup System																		
				5A	Method Of Compliance For Regulatory Guide 1.150	Ultrasound Examination of RPV										STP DEP 5A-1							
				5B	RHR Injection Flow And Heat Capacity Analysis Outlines	RHR Injection Flow and Heat Capacity Analysis Outlines										STP DEP 5B-1							
6	**Engineered Safety Features**																						
6.1.1	Engineered Safety Features Materials	6.1.1	Metallic Materials	6.1.1	Metallic Materials																		
6.1.2	Protective Coating Systems (Paints) Organic Materials	6.1.2	Protective Coating Systems (Paints) and Organic	6.1.2	Organic Materials	Protection Coatings and Organic Materials	6.1	6.1.3.1	6.1.2.1, 6.1.2.2														
		6.2	Containment Systems	6.2	Containment Systems	Containment Purge Valve Resizing										STP DEP 6.2-1							
		6.2	Containment Systems	6.2	Containment Systems	Containment Analysis										STP DEP 6.2-2							
		6.2	Containment Systems	6.2	Containment Systems	Containment Penetrations and Isolation										STP DEP 6.2-3							
6.2.1	Containment Functional Design	6.2.1	Primary Containment Functional Design	6.2.1	Containment Functional Design	Suppression Pool Cleanliness	6.4	6.2.7.3	6.2.1.7, Appendix 6C														
6.2.1	Containment Functional Design	6.2.1.5	Reverse Containment Pressurization	6.2.1	Containment Functional Design	Wetwell-to-Drywell Vacuum Breaker Protection	6.5	6.2.7.4															
6.2.1	Containment Functional Design	6.2.1.5	Reverse Containment Pressurization	6.2.1	Containment Functional Design	Containment Analysis For ABWR (LTR Expected from Applicant)									LTR Expected from Applicant								
6.2.2	Containment Heat Removal Systems	6.2.2	Containment Heat Removal Systems	6.2.2	Containment Heat Removal Systems																		

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6.2.3	Secondary Containment Functional Design	6.2.3	Secondary Containment Functional Design	6.2.3	Secondary Containment Functional Design																		
6.2.4	Containment Isolation System	6.2.4	Containment Isolation System	6.2.4	Containment Isolation System																		
6.2.5	Combustible Gas Control in Containment	6.2.5	Combustible Gas Control in Containment	6.2.5	Combustible Gas Control in Containment	Alternate Hydrogen Control	6.2	6.2.7.1	6.2.5														
6.2.5	Combustible Gas Control in Containment	6.2.5	Combustible Gas Control in Containment	6.2.5	Combustible Gas Control in Containment	Alternate Hydrogen Control	6.2	6.2.7.1	19A.2.12														
6.2.5	Combustible Gas Control in Containment	6.2.5	Combustible Gas Control in Containment	6.2.5	Combustible Gas Control in Containment	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
6.2.6	Containment Leakage Testing	6.2.6	Containment Leakage Testing	6.2.6	Containment Leakage Testing	Administrative Control Maintaining Containment Isolation	6.3	6.2.7.2	6.2.6.3.1														
6.2.6	Containment Leakage Testing	6.2.6	Containment Leakage Testing	6.2.6	Containment Leakage Testing	Containment Penetration Leakage Test (Type B)	6.5a	6.2.7.5	6.2.6.2.1														
6.2.6	Containment Leakage Testing	6.2.6	Containment Leakage Testing	6.2.6	Containment Leakage Testing	Operational Program #7 - Containment Leakage Rate Testing Program								7									
6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	ECCS Performance Results	6.6	6.3.6.1	6.3.3														
6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	ECCS Testing Requirements	6.7	6.3.6.2	6.3.4.1														
6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	Fuel Bundle MAPLHGR, Peak Cladding Temperature, and Oxidation Fraction (LTR Expected from Applicant)									LTR Expected from Applicant								
6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	Fuel Bundle Limited Break (LTR Expected from Applicant)									LTR Expected from Applicant								
6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	Limiting Break Results	6.7a	6.3.6.3	6.3.3.7.3														
6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	6.3	Emergency Core Cooling System	ABWR With Alternate RCIC Turbine Pump Design (NEDE-33299)									NEDE-33299								
6.4	Control Room Habitability System	6.4	Control Room Habitability System	6.4	Habitability Systems	Toxic Gases	6.8	6.4.7.1	6.4.4.2														
6.5.1	ESF Atmosphere Cleanup Systems	6.5.1	Engineered Safety Features Atmosphere Cleanup Systems	6.5.1	Engineered Safety Features Filter Systems	SGTS Performance	6.9	6.5.5.1	6.5.1.2.3.2, 6.5.1.3.1(5)														
6.5.1	ESF Atmosphere Cleanup Systems	6.5.1	Engineered Safety Features Atmosphere Cleanup Systems	6.5.1	Engineered Safety Features Filter Systems	SGTS Exceeding 90 Hours of Operation per Year	6.9a	6.5.5.2															
6.5.2	Containment Spray as a Fission Product Cleanup System	6.5.2	Containment Spray System	6.5.2	Containment Spray Systems																		
6.5.3	Fission Product Control Systems and Structures	6.5.3	Fission Product Control Systems and Structures	6.5.3	Fission Product Control	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
6.6	Inservice Inspection of Class 2 and 3 Components	6.6	Inservice Inspection of Class 2 and 3 Components	6.6	Preservice and Inservice Inspection and Testing of Class 2 and 3 Components and Piping	PSI and ISI Program Plans	6.10	6.6.9.1	6.6														
6.6	Inservice Inspection of Class 2 and 3 Components	6.6	Inservice Inspection of Class 2 and 3 Components	6.6	Preservice and Inservice Inspection and Testing of Class 2 and 3 Components and Piping	Access Requirement (for NDE)	6.11	6.6.9.2	6.6.2														
6.6	Inservice Inspection of Class 2 and 3 Components	6.6	Inservice Inspection of Class 2 and 3 Components	6.6	Preservice and Inservice Inspection and Testing of Class 2 and 3 Components and Piping	Operational Program #1 - Inservice Inspection Program								1									
6.6	Inservice Inspection of Class 2 and 3 Components	6.6	Inservice Inspection of Class 2 and 3 Components	6.6	Preservice and Inservice Inspection and Testing of Class 2 and 3 Components and Piping	Operational Program #4 - Preservice Inspection Program								4									
6.6	Inservice Inspection of Class 2 and 3 Components	6.6	Inservice Inspection of Class 2 and 3 Components	6.6	Preservice and Inservice Inspection and Testing of Class 2 and 3 Components and Piping	Preservice and Inservice Inspection and Testing of Class 2 and 3 Components and Piping										STEP DEP 6.6-1							
9.3.1	Compressed Air System	6.7	High-Pressure Nitrogen Gas Supply System	6.7	High-Pressure Nitrogen Gas Supply System																		
6.2.2	Containment Heat Removal Systems			6C	Containment Debris Protection for ECCS Strainers	Suppression Pool Cleanliness	6.4	6.2.7.3	6.2.1.7, Appendix 6C														
6.2.1.1.A	PWR Dry Containments, Including Subatmospheric Containments																						
6.2.7	Fracture Prevention of Containment Pressure Boundary	6.2.7	Fracture Prevention of Containment Pressure Boundary																				
6.2.1.1.B	Ice Condenser Containments																						
6.2.1.1.C	Pressure-Suppression Type BWR Containments																						
6.2.1.2	Subcompartment Analysis																						

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6.2.1.3	Mass and Energy Release Analysis for Postulated Loss of Coolant Accidents																						
6.2.1.4	Mass and Energy Release Analysis for Postulated Secondary System Pipe Ruptures																						
6.2.1.5	Minimum Containment Pressure Analysis for Emergency Core Cooling System Performance Capability Studies																						
6.5.4	Ice Condenser as a Fission Product Cleanup System																						
6.5.5	Pressure Suppression Pool as a Fission Product Cleanup System																						
6.7	Main Steam Isolation Valve Leakage Control System (BWR)	6.8	Main Steam Isolation Valve Leakage Control System																NA for ABWR (see 10.3)				
				6C	Containment Debris Protection for ECCS Strainers	Containment Debris Protection for ECCS Strainers										STP DEP 6C-1							
7	**Instrumentation and Controls**																						
7.0-A	Review Process for Digital I&C Systems																		No DCD Section				
7.1	Instrumentation and Controls -- Introduction	7.1	Introduction	7.1	Introduction																		
7.1	Instrumentation and Controls -- Introduction	7.1	Introduction	7.1	Introduction	Setpoint Methodology										STP DEP 7.1-1							
7.1	Instrumentation and Controls -- Introduction	7.1	Introduction	7.1	Introduction	ATWS DB for SRNM										STP DEP 7.1-2							
7.1	Instrumentation and Controls -- Introduction	7.1	Introduction	7.1	Introduction	Correct FMCRD Connection to Diesel Generators										STP DEP 7.1-2							
7.1	Instrumentation and Controls -- Introduction	7.1	Introduction	7.1	Introduction	Isolation of ATIP										STP DEP 7.1-3							
~~7.1~~	~~Instrumentation and Controls -- Introduction~~	~~7.1~~	~~Introduction~~	~~7.1.2~~	~~Identification of Safety Criteria~~	~~Cooling temperature profiles for Class 1E Digital Equipment~~	~~7.1~~	~~7.3.3.1~~															
~~7.1~~	~~Instrumentation and Controls -- Introduction~~	~~7.1~~	~~Introduction~~	~~7.1.2~~	~~Identification of Safety Criteria~~	~~Effects of Station Blackout on HVAC~~	~~7.3~~	~~7.8.1~~	~~7.1.2.3.9~~														
7.1-A	Acceptance Criteria & Guidelines for I&C Systems Important to Safety																		No DCD Section				
7.1-B	Guidance for Evaluation of Conformance to IEEE Std - 279																		No DCD Section				
7.1-C	Guidance for Evaluation of Conformance to IEEE Std - 603																		No DCD Section				
7.1-D	Guidance for Evaluation of Conformance to IEEE Std - 7-4.3.2																		No DCD Section				
7.2	Reactor Trip System	7.2	Reactor Protection System	7.2	Reactor Protection (Trip) System (RPS) - Instrumentation and Controls	ABWR Plant Medium Voltage Electrical System Design (NEDO-33335)									NEDO-33335								
7.2	Reactor Trip System	7.2	Reactor Protection System	7.2	Reactor Protection (Trip) System (RPS) - Instrumentation and Controls	Delete MSL Radiation Trip										STP DEP 7.2-1							
7.2	Reactor Trip System	7.2	Reactor Protection System	7.2	Reactor Protection (Trip) System (RPS) - Instrumentation and Controls	Correct Description of Scram Actuating Relays										STP DEP 7.2-2							
7.2	Reactor Trip System	7.2	Reactor Protection System	7.2	Reactor Protection (Trip) System (RPS) - Instrumentation and Controls	MSIV/RPS Interface										STP DEP 7.2-3							
7.2	Reactor Trip System	7.2	Reactor Protection System	7.2	Reactor Protection (Trip) System (RPS) - Instrumentation and Controls	Manual Scram Monitoring										STP DEP 7.2-4							
7.2	Reactor Trip System	7.2	Reactor Protection System	7.2	Reactor Protection (Trip) System (RPS) - Instrumentation and Controls	RPS Cabinets										STP DEP 7.2-5							
7.2	Reactor Trip System	7.2	Reactor Protection System	7.2	Reactor Protection (Trip) System (RPS) - Instrumentation and Controls	RPS Instrumentation Ranges										STP DEP 7.2-6							
7.3	Engineered Safety Features Systems	7.3	Engineered Safety Features Systems	7.3	Engineered Safety Features Systems - Instrumentation and Controls																		

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						COL Items																	
						COL Issue Title	Table 1.9 COL Info. Item No.	DCD Subsection Ref.	Additional DCD References	Interfaces for Standard Design (Item No.)	DAC/ITAAC for NRO Review	Generic Design Change	Plant Specific Design Departure	Operational Program	Tech. Rpt. No.	Departure Status Report (See Tier 1 Departures at Bottom of Matrix)	Generic Issue	ESP action item		DC FSER Section	SSER Section	Other	
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	Time Intervals for Licensing Analysis										STP DEP 7.3-1.							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	ADS Operator										STP DEP 7.3-2							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	Vessel Level Measurement										STP DEP 7.3-3							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	ADS Logic										STP DEP 7.3-4							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	Water Level Monitoring										STP DEP 7.3-5							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	ADS Manual Operation										STP DEP 7.3-6							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	ADS Monitoring										STP DEP 7.3-6							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	ADS Manual Operation										STP DEP 7.3-7							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	Surveillance Test Controller										STP DEP 7.3-8							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	Shutdown Cooling Operation										STP DEP 7.3-9							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	ELCS Mode Automation										STP DEP 7.3-10							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	LDI Valve LEakage Monitoring										STP DEP 7.3-11							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	LDI Sump Monitoring										STP DEP 7.3-12							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	Containment Spreay Logic										STP DEP 7.3-13							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	RHR SP Cooling Ligic										STP DEP 7.3-14							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	RSW Logic Interfaces										STP DEP 7.3-15							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	Testing of SRV Solenoid Pilot Valves										STP DEP 7.3-16							
		7.3	Engineered Safety Feature Systems	7.3	Engineered Safety Feature Systems, Instrumentation and Control	ADS Electrical Interface										STP DEP 7.3-17							
		7.3.1	System Description	7.3.1	Description	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
		7.3.2	Safety System Logic and Control and Specific Subsystem Descriptions	7.3.2	Analysis	Cooling temperature profiles for Class 1E Digital Equipment	7.1	7.3.3.1															
7.4	Safe Shutdown Systems	7.4	Systems Required for Safe Shutdown	7.4	Systems Required for Safe Shutdown	ABWR Plant Medium Voltage Electrical System Design (NEDO-33335)									NEDO-33335								
7.4	Safe Shutdown Systems	7.4	Systems Required for Safe Shutdown	7.4	Systems Required for Safe Shutdown	Correct ARI Description										STP DEP 7.4-1							

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7.4	Safe Shutdown Systems	7.4	Systems Required for Safe Shutdown	7.4	Systems Required for Safe Shutdown	RHR ALarm										STP DEP 7.4-2							
		7.4.2	Specific Findings	7.4.2	Analysis	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
7.5	Information Systems Important to Safety	7.5	Safety-Related Display Instrumentation and Information Systems Important to Safety	7.5	Information Systems Important to Safety	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
7.5	Information Systems Important to Safety	7.5	Safety-Related Display Instrumentation and Information Systems Important to Safety	7.5	Information Systems Important to Safety	PAM - Drywell Pressure										STP DEP 7.5-1							
7.6	Interlock Systems Important to Safety	7.6	All Other Instrumentation Systems Required for Safety	7.6	All Other Instrumentation Systems Required for Safety	ABWR APRM Oscillation Monitoring Logic (NEDO-33328)									NEDO-33328								
7.6	Interlock Systems Important to Safety	7.6	All Other Instrumentation Systems Required for Safety	7.6.1	Description	APRM Oscillation Monitoring Logic	7.2	7.6.3.1	7.6.1.1.2.2														
7.6	Interlock Systems Important to Safety	7.6	All Other Instrumentation Systems Required for Safety	7.6.1	Description	APRM Logic										STP DEP 7.6-1							
7.6	Interlock Systems Important to Safety	7.6	All Other Instrumentation Systems Required for Safety	7.6.1	Description	SPTM is Subsystem of RTIS										STP DEP 7.6-2							
7.6	Interlock Systems Important to Safety	7.6	All Other Instrumentation Systems Required for Safety	7.6.1	Description	SPTM Sensor Arrangement										STP DEP 7.6-3							
7.6	Interlock Systems Important to Safety	7.6	All Other Instrumentation Systems Required for Safety	7.6.1	Description	Ranger SRNM Operability										STP DEP 7.6-4							
7.6	Interlock Systems Important to Safety	7.6	All Other Instrumentation Systems Required for Safety	7.6.1	Description	Containment Radiation Monitoring										STP DEP 7.6-5							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety																		
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	Reactor Vessel Water Level Instrumentation										STP DEP 7.7-1							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	Feedwater Turbidity										STP DEP 7.7-3							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	APR / RCIS Interface										STP DEP 7.7-4							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	RCIS Display										STP DEP 7.7-5							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	RCIS Commands										STP DEP 7.7-6							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	RCIS Design Details										STP DEP 7.7-7							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	RCIS Power Sources										STP DEP 7.7-8							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	SCRRI Function										STP DEP 7.7-9							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	Control Rod Drive Movement										STP DEP 7.7-10							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	Rod Withdrawl Sequence Restrictions										STP DEP 7.7-11							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	RCIS Indication										STP DEP 7.7-12							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	Optical Isolation										STP DEP 7.7-13							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	RCIS Bypass										STP DEP 7.7-14							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	Scram Time Testing										STP DEP 7.7-15							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	ATLM Description										STP DEP 7.7-16							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	ATLM Description										STP DEP 7.7-17							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	RCIS Operator Info										STP DEP 7.7-18							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	RCIS Maintenance										STP DEP 7.7-19							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	FRFC Control Logic										STP DEP 7.7-20							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	PCF Interfaces										STP DEP 7.7-22							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	ATIP Function										STP DEP 7.7-23							

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7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	SPBC Interfaces										STP DEP 7.7-24							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	Data Network for Triplicated Systems										STP DEP 7.7-25							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	Elimination of Dust Radiation Monitoring										STP DEP 7.7-26							
7.7	Control Systems	7.7	Control Systems	7.7	Control Systems Not Required for Safety	Non-Safety I&C Architecture										STP DEP 7.7-27							
7.8	Diverse I&C Systems	7.8	COL License Information	7.8	COL License Information	Effects of Station Blackout on HVAC	7.3	7.8.1	7.1.2.3.9														
7.8	Diverse I&C Systems	7.8	COL License Information	7.8	COL License Information	Electrostatic Discharge on Exposed Equipment Components	7.4	7.8.2															
7.8	Diverse I&C Systems	7.8	COL License Information	7.8	COL License Information	Localized High Heat Spots in Semiconductor Material for Computing Devices	7.5	7.8.3															
7.9	Data Communications Systems																		No DCD Section				
8	**Electric Power**																						
8.1	Electric Power - Introduction	8.1	Electric Power - Introduction	8.1	Electric Power - Introduction	ABWR Plant Medium Voltage Electrical System Design (NEDO-33335)									NEDO-33335								
8.1	Electric Power - Introduction	8.1	Electric Power - Introduction	8.1.3	Design Bases	Diesel Generator Reliability	8.1	8.1.4.1	8.1.3.1.2.4														
8.2	Offsite Power System	8.2	Offsite Electric Power System	8.2	Offsite Power Systems	ABWR Plant Medium Voltage Electrical System Design (NEDO-33335)									NEDO-33335								
8.2	Offsite Power System	8.2	Offsite Electric Power System	8.2	Offsite Power Systems	Electrical										STP DEP 8.2-1							
8.2	Offsite Power System	8.2	Offsite Electric Power	8.2.1	Description	Capacity of Auxiliary Transformers	8.6	8.2.4.5	8.2.1.2														
8.2	Offsite Power System	8.2	Offsite Electric Power System	8.2.3	Interface Requirements	Offsite Power Systems Design Bases	8.4	8.2.4.3	8.2.3														
8.2	Offsite Power System	8.2	Offsite Electric Power System	8.2.3	Interface Requirements	Offsite Power Systems Scope Split	8.5	8.2.4.4	8.2.3														
8.2	Offsite Power System	8.2	Offsite Electric Power System	8.2.3	Interface Requirements	Interfacing Requirements				DCD 8.2.3													
8.2	Offsite Power System	8.2	Offsite Electric Power System	8.2.4	COL License Information	Periodic Testing of Offsite Equipment	8.2	8.2.4.1															
8.2	Offsite Power System	8.2	Offsite Electric Power System	8.2.4	COL License Information	Procedures When a Reserve or Unit Auxiliary Transformer is Out of Service	8.3	8.2.4.2															
		8.3	Onsite Class 1E Power System	8.3	Onsite Power Systems	ABWR Plant Medium Voltage Electrical System Design (NEDO-33335)									NEDO-33335								
		8.3	Onsite Class 1E Power System	8.3	Onsite Power Systems	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
		8.3	Onsite Class 1E Power System	8.3	Onsite Power Systems	Dual Voltage Electrical System										STP DEP 8.3.1							
		8.3	Onsite Class 1E Power System	8.3	Onsite Power Systems	Onsite Power Systems										STP DEP 8.3-2							
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Administrative Controls for Bus Grounding Circuit Breakers	8.20	8.3.4.14	8.3.1.0.6.2														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Offsite Power Supply Arrangements	8.15	8.3.4.9	8.3.1.1.1														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Periodic Testing of Class 1E Circuit Breakers	8.35	8.3.4.29	8.3.1.1.1														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Periodic Testing of Class 1E CVCF Power Supplies	8.40	8.3.4.34	8.3.1.1.4.2.1														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Administrative Controls for Bus Grounding Circuit Breakers	8.20	8.3.4.14	8.3.1.1.6.2														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Periodic Testing of Diesel Generator Protective Relaying	8.28	8.3.4.22	8.3.1.1.6.4														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Periodic Testing of Diesel Generator Synchronizing Interlocks	8.29	8.3.4.23	8.3.1.1.6.4														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Diesel Generator Design Details	8.8	8.3.4.2	8.3.1.1.8.2														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Periodic Testing of Voltage Protection Equipment	8.26	8.3.4.20	8.3.1.1.7														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Diesel Generator Parallel Test Mode	8.27	8.3.4.21	8.3.1.1.8.1														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Periodic Testing of Class 1E Diesel Generators	8.42	8.3.4.36	8.3.1.1.8.2														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Periodic Testing of Class 1E Diesel Generators	8.42	8.3.4.36	8.3.1.1.8.3														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Periodic Testing of Class 1E Diesel Generators	8.42	8.3.4.36	8.3.1.1.8.6														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Diesel Generator Parallel Test Mode	8.27	8.3.4.21	8.3.1.1.8.8														

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						COL Issue Title	Table 1.9 COL Info. Item No.	DCD Subsection Ref.	Additional DCD References	Interfaces for Standard Design (Item No.)	DAC/ITAAC for NRO Review	Generic Design Change	Plant Specific Design Departure	Operational Program	Tech. Rpt. No.	Departure Status Report (See Tier 1 Departures at Bottom of Matrix)	Generic Issue	ESP action item		DC FSER Section	SSER Section	Other	
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Administrative Controls for Manual Interconnections	8.21	8.3.4.15	8.3.1.2														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Common Industrial Standards Referenced in Purchase Specifications	8.23	8.3.4.17	8.3.1.2														
8.3.1	AC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.1	AC Power Systems	Periodic Testing of Thermal Overloads and Bypass Circuitry	8.30	8.3.4.24	8.3.1.2														
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8.3.1-8.3.2	AC Power Systems (Onsite) - DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.3	General Onsite Power System Information	Protective Devices for Electrical Penetration Assemblies	8.10	8.3.4.4	8.3.3.6.1.2														
8.3.1-8.3.2	AC Power Systems (Onsite) - DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.3	General Onsite Power System Information	Protective Devices for Electrical Penetration Assemblies	8.10	8.3.4.4	8.3.3.7														
8.3.1-8.3.2	AC Power Systems (Onsite) - DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.4	COL License Information	Offsite Power Supply Arrangements	8.15	8.3.4.9	8.2.4.2														
8.3.1-8.3.2	AC Power Systems (Onsite) - DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.4	COL License Information	Load Testing of Class 1E Switchgear and Motor Control Centers	8.19	8.3.4.13															
8.3.1-8.3.2	AC Power Systems (Onsite) - DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.4	COL License Information	Periodic Inspection/Testing of Lighting System	8.31	8.3.4.25															
8.3.1-8.3.2	AC Power Systems (Onsite) - DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.4	COL License Information	Controls for Limiting Potential Hazards Into Cable Chases	8.32	8.3.4.26															
8.3.1-8.3.2	AC Power Systems (Onsite) - DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.4	COL License Information	Periodic Testing of Class 1E Equipment Protective Relaying	8.33	8.3.4.27															
8.3.1-8.3.2	AC Power Systems (Onsite) - DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.4	COL License Information	Periodic Testing of CVCF Power Supplies and EPAs	8.34	8.3.4.28															
8.3.1-8.3.2	AC Power Systems (Onsite) - DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.4	COL License Information	Periodic Testing of Electrical Systems & Equipment	8.36	8.3.4.30															
8.3.1-8.3.2	AC Power Systems (Onsite) - DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.4	COL License Information	Periodic Testing of Class 1E Batteries	8.39	8.3.4.33															
8.3.1-8.3.2	AC Power Systems (Onsite) - DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.5	References	Common Industrial Standards Referenced in Purchase Specifications	8.23	8.3.4.17	8.3.5														
8.3.2	DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.2	DC Power Systems	Administrative Control for Switching 125 Vdc Standby Charger	8.24	8.3.4.18	8.3.2.1.3.1														
8.3.2	DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.2	DC Power Systems	Periodic Testing of Class 1E Battery Chargers	8.41	8.3.4.35	8.3.2.1.1														
8.3.2	DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.2	DC Power Systems	Class 1E Battery Installation and Maintenance Requirements	8.38	8.3.4.32	8.3.2.1.1.1														
8.3.2	DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.2	DC Power Systems	Class 1E Electrical System Considerations	8.12	8.3.4.6	8.3.2.1.3.1.1														
8.3.2	DC Power Systems (Onsite)	8.3	Onsite Class 1E Power System	8.3.2	DC Power Systems	Periodic Testing of Thermal Overloads and Bypass Circuitry	8.30	8.3.4.24	8.3.2.2.2														
8.4	Station Blackout	8.3.9	Station Blackout	8.3.1.1.7	Load Shedding and Sequencing on Class 1E Buses																		
8.4	Station Blackout	8.3.9	Station Blackout	8.3.2.1.3.5	Station Blackout																		
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9.1.1	Criticality Safety of Fresh and Spent Fuel Storage and Handling	9.1.1	New Fuel Storage	9.1.1	New Fuel Storage	New Fuel Storage Racks Criticality Analysis	9.1	9.1.6.1	9.1.1.1.1														
9.1.1	Criticality Safety of Fresh and Spent Fuel Storage and Handling	9.1.1	New Fuel Storage	9.1.1	New Fuel Storage	Dynamic and Impact Analysis of New Fuel Storage Racks	9.2	9.1.6.2	9.1.1.1.6														
9.1.2	New and Spent Fuel Storage	9.1.2	Spent Fuel Storage	9.1.2	Spent Fuel Storage	Spent Fuel Storage Racks Criticality Analysis	9.3	9.1.6.3	9.1.2.3.1														
9.1.2	New and Spent Fuel Storage	9.1.2	Spent Fuel Storage	9.1.2	Spent Fuel Storage	Spent Fuel Racks Structural Evaluation	9.7	9.1.6.7	9.1.2.1.3														
9.1.2	New and Spent Fuel Storage	9.1.2	Spent Fuel Storage	9.1.2	Spent Fuel Storage	Spent Fuel Racks Structural Evaluation (LTR Expected from Applicant)									LTR Expected from Applicant								
9.1.2	New and Spent Fuel Storage	9.1.2	Spent Fuel Storage	9.1.2	Spent Fuel Storage	Spent Fuel Rack Thermal-Hydraulic Analysis (LTR Expected from Applicant)									LTR Expected from Applicant								
9.1.2	New and Spent Fuel Storage	9.1.2	Spent Fuel Storage	9.1.2	Spent Fuel Storage	Spent Fuel Racks Thermal-Hydraulic Analysis (not in FSER)	9.8	9.1.6.8	9.1.2.1.4														
9.1.3	Spent Fuel Pool Cooling and Cleanup System	9.1.3	Spent Fuel Pool Cooling and Cleanup System	9.1.3	Fuel Pool Cleaning and Cleanup System	Spent Fuel Firewater Makeup Procedures and Training	9.9	9.1.6.9	9.1.3.3														
9.1.3	Spent Fuel Pool Cooling and Cleanup System	9.1.3	Spent Fuel Pool Cooling and Cleanup System	9.1.3	Fuel Pool Cleaning and Cleanup System	Protection of RHR System Connections to FPC System	9.10	9.1.6.10	9.1.3.3														
9.1.4	Light Load Handling System (Related to Refueling)	9.1.4	Light Load Handling System (Related to Refueling)	9.1.4	Light Load Handling System (Related to Refueling)	Spent Fuel Rack Load Drop Analysis	9.4	9.1.6.4	9.1.4.3														

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						COL Issue Title	COL Items			Interfaces for Standard Design (Item No.)	DAC/ITAAC for NRO Review	Generic Design Change	Plant Specific Design Departure	Operational Program	Tech. Rpt. No.	Departure Status Report (See Tier 1 Departures at Bottom of Matrix)	Generic Issue	ESP action item		DC FSER Section	SSER Section	Other	
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9.1.4	Light Load Handling System (Related to Refueling)	9.1.4	Light Load Handling System (Related to Refueling)	9.1.4	Light Load Handling System (Related to Refueling)	Fuel Inspection Stand Installation (LTR Expected from Applicant)									LTR Expected from Applicant								
9.1.5	Overhead Heavy Load Handling Systems	9.1.5	Overhead Heavy Load Handling Systems	9.1.5	Overhead Heavy Load Handling Systems (OHLH)	Overhead Load Handling System Information	9.6	9.1.6.6															
				~~9.1.6~~	~~COL License Information~~	~~List and Properties of Cranes, Hoists, and Elevators (LTR Expected from Applicant)~~									~~LTR Expected from Applicant~~								
		~~9.2~~	~~Water Systems~~	~~9.2~~	~~Water Systems~~	~~ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)~~									~~NEDO-33330~~								
		9.2	Water Systems	9.2	Water Systems	Reactor Building Cooling Water System									STP DEP 9.2-1								
		9.2	Water Systems	9.2	Water Systems	Makeup Water Prep System									STP DEP 9.2-2								
		9.2	Water Systems	9.2	Water Systems	Turbine Building Cooling Water System									STP DEP 9.2-3								
		9.2	Water Systems	9.2	Water Systems	Reactor Service Water System									STP DEP 9.2-5								
		9.2	Water Systems	9.2	Water Systems	Turbine Service Water System									STP DEP 9.2-6								
		9.2	Water Systems	9.2	Water Systems	HVAC Normal Cooling Water System									STP DEP 9.2-7								
		9.2	Water Systems	9.2	Water Systems	Potable and Sanitary Water System									STP DEP 9.2-8								
9.2.4	Potable and Sanitary Water System	9.2.4	Potable and Sanitary Water System	9.2.4	Potable and Sanitary Water Systems	(PSW) Portions Outside the Scope of ABWR Standard Plant				9.2.4.2													
9.2.5	Ultimate Heat Sink	9.2.5	Ultimate Heat Sink	9.2.5	Ultimate Heat Sink	Ultimate Heat Sink Interface Requirements				9.2.5													
9.2.5	Ultimate Heat Sink	9.2.5	Ultimate Heat Sink	9.2.5	Ultimate Heat Sink	Protection of Ultimate Heat Sink	3.9	3.5.41															
9.2.5	Ultimate Heat Sink	9.2.5	Ultimate Heat Sink	9.2.5	Ultimate Heat Sink	Ultimate Heat Sink Design (LTR Expected from Applicant)									LTR Expected from Applicant								
9.2.6	Condensate Storage Facilities	9.2.6	Condensate Storage Facilities	9.2.6	Condensate Storage Facilities																		
9.2.6	Condensate Storage Facilities	9.2.8	Makeup Water System (Preparation)	9.2.8	Makeup Water Condensate System (Preparation)	Tests and Inspections (Interface Requirements)		9.2.8.8															
9.2.6	Condensate Storage Facilities	9.2.9	Makeup Water System (Condensate)	9.2.9	Makeup Water Condensate System																		
9.2.6	Condensate Storage Facilities	9.2.10	Makeup Water System (Purified) Distribution System	9.2.10	Makeup Water Purified System																		
9.2.3	Demineralized Water Makeup System	9.2.8	Makeup Water System (Preparation)	9.2.8	Makeup Water (MWP) Preparation System	Makeup Water (MWP) Preparation System Interface Requirements				9.2.8													
9.2.3	Demineralized Water Makeup System	9.2.8	Makeup Water System (Preparation)	9.2.8	Makeup Water (MWP) Preparation System	ABWR Common Equipment and Structures (NEDO-33325)									NEDO-33325								
9.2.3	Demineralized Water Makeup System	9.2.10	Makeup Water System (Purified) Distribution System	9.2.10	Makeup Water Purified System																		
9.2.2	Reactor Auxiliary Cooling Water Systems	9.2.11	Reactor Building Cooling Water System	9.2.11	Reactor Building Cooling Water System																		
9.2.2	Reactor Auxiliary Cooling Water Systems	9.2.12	HVAC Normal Cooling Water System	9.2.12	HVAC Normal Cooling Water System																		
9.2.2	Reactor Auxiliary Cooling Water Systems	9.2.13	HVAC Emergency Cooling Water System	9.2.13	HVAC Emergency Cooling Water System	HECW System Refrigerator Requirements	9.11	9.2.17.1															
9.2.2	Reactor Auxiliary Cooling Water Systems	9.2.14	Turbine Building Cooling Water System	9.2.14	Turbine Building Cooling Water System																		
9.2.1	Station Service Water System	9.2.15	Reactor Service Water	9.2.15	Reactor Service Water System	(RSW) Portions Outside the Scope of ABWR Standard Plant				9.2.15.2													
9.2.1	Station Service Water System	9.2.15	Reactor Service Water	9.2.15	Reactor Service Water System	Reactor Service Water System Requirements	9.12	9.2.17.2															
9.2.1	Station Service Water System	9.2.16	Turbine Service Water System	9.2.16	Turbine Service Water System	(TSW) Portions Outside the Scope of ABWR Standard Plant				9.2.16.2													
		9.3	Process Auxiliaries	9.3	Process Auxiliaries	Radwaste Drain Materials										STP DEP 9.3-1							
		9.3	Process Auxiliaries	9.3	Process Auxiliaries	Breathing Air System										STP DEP 9.3-2							
		9.3	Process Auxiliaries	9.3	Process Auxiliaries	Chemical Treatment Options										STP DEP 9.3-3							
9.3.1	Compressed Air System	9.3.1	Compressed Air Systems	9.3.1	Compressed Air Systems																		
9.3.1	Compressed Air System	9.3.6	Instrument Air System	9.3.6	Instrument Air System																		
9.3.1	Compressed Air System	9.3.7	Service Air System	9.3.7	Service Air System																		
9.3.2	Process and Post Accident Sampling Systems	9.3.2	Process and Post-Accident Sampling System	9.3.2	Process and Post-Accident Sampling Systems																		
9.3.3	Equipment and Floor Drainage Systems	9.3.3	Non-Radioactive Drain System	9.3.3	Non-Radioactive Drain System	Non-Radioactive Drains Interface Requirements				9.3.3.2													
9.3.3	Equipment and Floor Drainage Systems	9.3.8	Radioactive Drain Transfer System	9.3.8	Radioactive Drain Transfer System	Radioactive Drain Transfer System	9.15	9.3.12.4															
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						COL Issue Title	COL Items: Table 1.9 COL Info. Item No.	COL Items: DCD Subsection Ref.	COL Items: Additional DCD References	Interfaces for Standard Design (Item No.)	DAC/ITAAC for NRO Review	Generic Design Change	Plant Specific Design Departure	Operational Program	Tech. Rpt. No.	Departure Status Report (See Tier 1 Departures at Bottom of Matrix)	Generic Issue	ESP action item		DC FSER Section	SSER Section	Other	
9.3.4	Chemical and Volume Control System (PWR) (Including Boron Recovery System)	9.3.4	Chemical and Volume Control System	9.3.4	Chemical and Volume Control System (PWR)																		
9.3.5	Standby Liquid Control System (BWR)	9.3.5	Standby Liquid Control System (BWR)	9.3.5	Standby Liquid Control System (BWR)																		
		9.4	Heating, Ventilation, and Air Conditioning Systems	9.4	Air Conditioning, Heating, Cooling and Ventilation Systems	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
		9.4	Heating, Ventilation, and Air Conditioning Systems	9.4	Air Conditioning, Heating, Cooling and Ventilation Systems	Service Building HVAC System										STP DEP 9.4-1							
		9.4	Heating, Ventilation, and Air Conditioning Systems	9.4	Air Conditioning, Heating, Cooling and Ventilation Systems	Service Building HVAC System										STP DEP 9.4-3							
		9.4	Heating, Ventilation, and Air Conditioning Systems	9.4	Air Conditioning, Heating, Cooling and Ventilation Systems	Turbine Island HVAC System										STP DEP 9.4-4							
		9.4	Heating, Ventilation, and Air Conditioning Systems	9.4	Air Conditioning, Heating, Cooling and Ventilation Systems	Radwaste Ventilation										STP DEP 9.4-5							
9.4.1	Control Room Area Ventilation System	9.4.1	Control Building	9.4.1	Control Building HVAC																		
9.4.2	Spent Fuel Pool Area Ventilation System	9.4.2	Spent Fuel Pool Area Ventilation System	9.4.2	Spent Fuel Pool Area Ventilation System																		
9.4.3	Auxiliary and Radwaste Area Ventilation System	9.4.3	Auxiliary Area Ventilation System	9.4.3	Auxiliary Area Ventilation System																		
9.4.3	Auxiliary and Radwaste Area Ventilation System	9.4.6	Radwaste Building HVAC System	9.4.6	Radwaste Building HVAC System	Radwaste Building HVAC System	9.17	9.4.10.2	9.4.6.2														
9.4.3	Auxiliary and Radwaste Area Ventilation System	9.4.8	Service Building HVAC System	9.4.8	Service Building HVAC System	Service Building HVAC System	9.16	9.4.10.1	9.4.8.2														
9.4.4	Turbine Area Ventilation System	9.4.4	Turbine Island HVAC System	9.4.4	Turbine Island HVAC System																		
9.4.5	Engineered Safety Feature Ventilation System	9.4.5	Reactor Building Ventilation System	9.4.5	Reactor Building HVAC System																		
		9.5	Other Auxiliary Systems	9.5	Other Auxiliary Systems	ABWR Plant Medium Voltage Electrical System Design (NEDO-33335)									NEDO-33335								
		9.5	Other Auxiliary Systems	9.5	Other Auxiliary Systems	Diesel-Generator Jacket Cooling Water System										STP DEP 9.5-1							
		9.5	Other Auxiliary Systems	9.5	Other Auxiliary Systems	Fusible Plug Valve										STP DEP 9.5-2							
		9.5	Other Auxiliary Systems	9.5	Other Auxiliary Systems	System Description - MG Set										STP DEP 9.5-3							
		9.5	Other Auxiliary Systems	9.5	Other Auxiliary Systems	Lighting and Servicing Power Supply System										STP DEP 9.5-4							
		9.5	Other Auxiliary Systems	9.5	Other Auxiliary Systems	Diesel Generator Fuel Oil Storage and Transfer System										STP DEP 9.5-6							
		9.5	Other Auxiliary Systems	9.5	Other Auxiliary Systems	Turbine Building, House Boiler Area										STP DEP 9.5-7							
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9.5.1	Fire Protection Program	9.5.1	Fire Protection Program	9.5.1	Fire Protection System	Use of Portable Hand Light in Emergency	9.21	9.5.13.4	9.5.1.2.3														
9.5.1	Fire Protection Program	9.5.1	Fire Protection Program	9.5.1	Fire Protection System	Fire Rating for Penetration Seals	9.24	9.5.13.7	9A.5.1														
9.5.1	Fire Protection Program	9.5.1	Fire Protection Program	9.5.1	Fire Protection System	Applicant Fire Protection Program	9.26	9.5.13.9	9.5.1														
9.5.1	Fire Protection Program	9.5.1	Fire Protection Program	9.5.1	Fire Protection System	HVAC Pressure Calculations	9.27	9.5.13.10	9.5.1.1.6														
9.5.1	Fire Protection Program	9.5.1	Fire Protection Program	9.5.1	Fire Protection System	Identification of Chemicals	9.32	9.5.13.15	9.5.1.2														
9.5.1	Fire Protection Program	9.5.1	Fire Protection Program	9.5.1	Fire Protection System	Fire-Related Administrative Controls	9.35	9.5.13.18	9.5.1.6.4														
9.5.1	Fire Protection Program	9.5.1	Fire Protection Program	9.5.1	Fire Protection System	Operational Program #8 - Fire protection Program								8									
9.5.1	Fire Protection Program	9.5.1	Fire Protection Program	9.5.1	Fire Protection System	ABWR Common Equipment and Structures (NEDO-33325)									NEDO-33325								
9.5.2	Communication Systems	9.5.2	Communication Systems	9.5.2	Communication Systems	Emergency communication system for off-site communication				Tier 1 - 2.12.16									(see FSER 7.7.16)				
9.5.2	Communication Systems	9.5.2	Communication Systems	9.5.2	Communication Systems	Use of Communication System in Emergencies	9.19	9.5.13.2	9.5.2.4														
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9.5.2	Communication Systems	9.5.2	Communication Systems	9.5.2	Communication Systems	Plant Security System Criteria	9.28	9.5.13.11	9.5.2														
9.5.2	Communication Systems	9.5.2	Communication Systems	9.5.2	Communication Systems	Sound-Powered Telephone Units	9.34	9.5.13.17	9.5.2.2.2														
9.5.2	Communication Systems	9.5.2	Communication Systems	9.5.2	Communication Systems	ABWR Common Equipment and Structures (NEDO-33325)									NEDO-33325								
9.5.3	Lighting Systems	9.5.3	Lighting Systems	9.5.3	Lighting and Servicing Power Supply System														(see FSER 8.3.5)				
9.5.4	Emergency Diesel Engine Fuel Oil Storage and Transfer System	9.5.4	Diesel Generator Fuel Oil Storage and Transfer System	9.5.4	Diesel Generator Fuel Oil Storage and Transfer System	Vendor Specific Design of Diesel Generator Auxiliaries	9.22	9.5.13.5	9.5.4 - 9.5.8, 9.5.4.2, 9.5.5.2, 9.5.6.2, 9.5.7.2, 9.5.8.2														

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						COL Issue Title	COL Items			Interfaces for Standard Design (Item No.)	DAC/ITAAC for NRO Review	Generic Design Change	Plant Specific Design Departure	Operational Program	Tech. Rpt. No.	Departure Status Report (See Tier 1 Departures at Bottom of Matrix)	Generic Issue	ESP action item		DC FSER Section	SSER Section	Other	
							Table 1.9 COL Info. Item No.	DCD Subsection Ref.	Additional DCD References														
9.5.4	Emergency Diesel Engine Fuel Oil Storage and Transfer System	9.5.4	Diesel Generator Fuel Oil Storage and Transfer System	9.5.4	Diesel Generator Fuel Oil Storage and Transfer System	Diesel Fuel Refueling Procedures	9.30	9.5.13.13															
9.5.4	Emergency Diesel Engine Fuel Oil Storage and Transfer System	9.5.4	Diesel Generator Fuel Oil Storage and Transfer System	9.5.4	Diesel Generator Fuel Oil Storage and Transfer System	NUREG/CR-0660 Diesel Generator Reliability Recommendations	9.33	9.5.13.16															
9.5.5	Emergency Diesel Engine Cooling Water System	9.5.5	Diesel Generator Cooling Water System	9.5.5	Diesel Generator Jacket Cooling Water System	Diesel Generator Cooling Water Systems Design Flow and Heat Removal Requirements	9.23	9.5.13.6	9.5.5.2														
9.5.5	Emergency Diesel Engine Cooling Water System	9.5.5	Diesel Generator Cooling Water System	9.5.5	Diesel Generator Jacket Cooling Water System	Vendor Specific Design of Diesel Generator Auxiliaries	9.22	9.5.13.5	9.5.4 - 9.5.8, 9.5.4.2, 9.5.5.2, 9.5.6.2, 9.5.7.2, 9.5.8.2														
9.5.6	Emergency Diesel Engine Starting System	9.5.6	Diesel Generator Starting Air System	9.5.6	Diesel Generator Starting Air System	Vendor Specific Design of Diesel Generator Auxiliaries	9.22	9.5.13.5	9.5.4 - 9.5.8, 9.5.4.2, 9.5.5.2, 9.5.6.2, 9.5.7.2, 9.5.8.2														
9.5.6	Emergency Diesel Engine Starting System	9.5.6	Diesel Generator Starting Air System	9.5.6	Diesel Generator Starting Air System	Diesel Generator Requirements	9.25	9.5.13.8	9.5.6.3, 8.3.1.1.8														
9.5.7	Emergency Diesel Engine Lubrication System	9.5.7	Diesel Generator Lubrication System	9.5.7	Diesel Generator Lubrication System	Vendor Specific Design of Diesel Generator Auxiliaries	9.22	9.5.13.5	9.5.4 - 9.5.8, 9.5.4.2, 9.5.5.2, 9.5.6.2, 9.5.7.2, 9.5.8.2														
9.5.8	Emergency Diesel Engine Combustion Air Intake and Exhaust System	9.5.8	Diesel Generator Combustion Air Intake and Exhaust System	9.5.8	Diesel Generator Combustion Air Intake and Exhaust System	Contamination of DG Combustion Air Intake	9.18	9.5.13.1	9.5.8.1														
9.5.8	Emergency Diesel Engine Combustion Air Intake and Exhaust System	9.5.8	Diesel Generator Combustion Air Intake and Exhaust System	9.5.8	Diesel Generator Combustion Air Intake and Exhaust System	Vendor Specific Design of Diesel Generator Auxiliaries	9.22	9.5.13.5	9.5.4 - 9.5.8, 9.5.4.2, 9.5.5.2, 9.5.6.2, 9.5.7.2, 9.5.8.2														
8.4	Station Blackout	8.3.9	Station Blackout	9.5.11	Combustion Turbine/Generator	Periodic Testing of Combustion Turbine Generator (CTG)	9.36	9.5.13.19											Noted in FSER 8.3.9				
8.4	Station Blackout	8.3.9	Station Blackout	9.5.11	Combustion Turbine/Generator	Operating Procedures for Station Blackout	9.37	9.5.13.20															
8.4	Station Blackout	8.3.9	Station Blackout	9.5.11	Combustion Turbine/Generator	Quality Assurance Requirements for CTG	9.38	9.5.13.21															
				9A	Fire Hazard Analysis	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
10	**Steam and Power Conversion System**																						
10.2	Turbine Generator	10.2	Turbine Generator	10.2	Turbine Generator	ABWR Common Equipment and Structures (NEDO-33325)									NEDO-33325								
10.2	Turbine Generator	10.2.1	Turbine Generator System	10.2.1	Design Bases																		
10.2.3	Turbine Rotor Integrity	10.2.2	Turbine Rotor Integrity	10.2.3	Turbine Integrity	Low Pressure Turbine Disk Fracture Toughness	10.1	10.2.5.1	10.2.3.2														
10.2.3	Turbine Rotor Integrity	10.2.2	Turbine Rotor Integrity	10.2.3	Turbine Integrity	Turbine Design Overspeed	10.2	10.2.5.2	10.2.3.4(4)														
10.2.3	Turbine Rotor Integrity	10.2.2	Turbine Rotor Integrity	10.2.3	Turbine Integrity	Turbine Inservice Test and Inspection	10.3	10.2.5.3	10.2.3.6														
10.3	Main Steam Supply System	10.3	Main Steam Supply System	10.3	Main Steam Supply System	MSIV Leakage	10.4	10.3.7.1	10.3.3														
10.3	Main Steam Supply System	10.3	Main Steam Supply System	10.3	Main Steam Supply System	Procedures to Avoid Steam Hammer and Discharge Loads	10.5	10.3.7.2	10.3.2														
10.3.6	Steam and Feedwater System Materials	10.3.2	Steam and Feedwater System Materials	10.3.6	Steam and Feedwater System Materials																		
		10.4	Other Features	10.4	Other Features of Steam and Power Conversion System	Turbine Gland Steam System										10.4-1							
		10.4	Other Features	10.4	Other Features of Steam and Power Conversion System	Main Condenser										10.4-2							
		10.4	Other Features	10.4	Other Features of Steam and Power Conversion System	Main Condenser Evacuation System										10.4-3							
10.4.1	Main Condensers	10.4.1	Main Condenser	10.4.1	Main Condenser																		
10.4.2	Main Condenser Evacuation System	10.4.2	Main Condenser Evacuation System	10.4.2	Main Condenser Evacuation System																		
10.4.3	Turbine Gland Sealing System	10.4.3	Turbine Gland Sealing System	10.4.3	Turbine Gland Sealing System	Radiological Analysis of the TGSS Effluents	10.6	10.4.10.1	10.4.3.5.1.3														
10.4.4	Turbine Bypass System	10.4.4	Turbine Bypass System	10.4.4	Turbine Bypass System																		
10.4.5	Circulating Water System	10.4.5	Circulating Water System	10.4.5	Circulating Water System	Portions of the CWS Outside of Scope of ABWR Standard Plant			10.4.5.7														
		10.4.8	Power Cycle Heat Sink	10.4.5	Circulating Water System	Power Cycle Heat Sink (Conceptual Design)			10.4.5.8														
10.4.6	Condensate Cleanup System	10.4.6	Condensate Purification System	10.4.6	Condensate Purification System																		
10.4.7	Condensate and Feedwater System	10.4.7	Condensate and Feedwater System	10.4.7	Condensate and Feedwater System																		

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10.4.8	Steam Generator Blowdown System (PWR)			10.4.8	Steam Generator Blowdown System (PWR)																		
10.4.9	Auxiliary Feedwater System (PWR)			10.4.9	Auxiliary Feedwater System (PWR)																		
11	**Radioactive Waste Management**																						
11.1	Source Terms	11.1	Source Terms	11.1	Source Terms																		
11.2	Liquid Waste Management Systems	11.2	Liquid Waste Management System	11.2	Liquid Waste Management System	Plant-Specific Liquid Radwaste Information	11.1	11.2.5.1															
11.2	Liquid Waste Management Systems	11.2	Liquid Waste Management System	11.2	Liquid Waste Management System	Liquid Radwaste Process Equipment										STP DEP 11.2-1							
11.2	Liquid Waste Management Systems	11.2	Liquid Waste Management System	11.2	Liquid Waste Management System	Radwaste System Design										STP DEP 11.2-2							
11.3	Gaseous Waste Management Systems	11.3	Gaseous Waste Management System	11.3	Gaseous Waste Management System	Compliance With Appendix I to 10CFR50	11.2	11.3.11.1															
11.4	Solid Waste Management System	11.4	Solid Waste Management System	11.4	Solid Waste Management System	Plant-Specific Solid Radwaste Information	11.3	11.4.3.1															
11.4	Solid Waste Management System	11.4	Solid Waste Management System	11.4	Solid Waste Management System	Radioactive Solid Waste Update										STP DEP 11.4-1							
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	Operational Program #9 - Process and Effluent Monitoring and Sampling Program: Process Control Program (PCP)								9									
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	Operational Program #9 - Process and Effluent Monitoring and Sampling Program: Radiological Effluent Technical Specifications/Standard Radiological Effluent Controls (RETS/SREC)								9									
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	Operational Program #9 - Offsite Dose Calculation manual (ODCM)								9									
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	Calculation of Radiation Release Rates	11.4	11.5.6.1	11.5														
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	Compliance with the Regulatory Shielding Design Basis	11.5	11.5.6.2	11.5														
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	Provisions for Isokinetic Sampling	11.6	11.5.6.3	11.5														
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	Sampling of Radioactive Iodine and Particulates	11.7	11.5.6.4	11.5														
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	Calibration Frequencies and Techniques	11.8	11.5.6.5	11.5														
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	Operational Program #9 - Radiological Environmental Monitoring Program (REMP)																	
11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	11.5	Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems	Process and Effluent Radiation Monitoring and Sampling System										STP DEP 11.5-1							
12	**Radiation Protection**																						
12.1	Assuring That Occupational Radiation Exposures Are As Low As Is Reasonably Achievable	12.1	Assuring That Occupational Radiation Doses Are As Low As Is Reasonably Achievable	12.1	Ensuring That Occupational Radiation Exposures Are ALARA	Reg Guide 8.8	12.4	12.1.4.4	12.1.1.3.1														
12.1	Assuring That Occupational Radiation Exposures Are As Low As Is Reasonably Achievable	12.1	Assuring That Occupational Radiation Doses Are As Low As Is Reasonably Achievable	12.1	Ensuring That Occupational Radiation Exposures Are ALARA	Reg Guide 8.10	12.1	12.1.4.1	12.1.1.3.2														
12.1	Assuring That Occupational Radiation Exposures Are As Low As Is Reasonably Achievable	12.1	Assuring That Occupational Radiation Doses Are As Low As Is Reasonably Achievable	12.1	Ensuring That Occupational Radiation Exposures Are ALARA	Reg Guide 1.8	12.2	12.1.4.2	12.1.1.3.3														

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12.1	Assuring That Occupational Radiation Exposures Are As Low As Is Reasonably Achievable	12.1	Assuring That Occupational Radiation Doses Are As Low As Is Reasonably Achievable	12.1.3	Operational Considerations	Occupational Radiation Exposures	12.3	12.1.4.3	12.1.3														
12.2	Radiation Sources	12.2	Radiation Sources	12.2.2	Airborne and Liquid Sources for Environmental Consideration	Compliance With 10CFR20 and 10CFR50 Appendix I	12.5	12.2.3.1	12.2.2.4														
12.2	Radiation Sources	12.2	Radiation Sources	12.2.2	Airborne and Liquid Sources for Environmental Consideration	Compliance With 10CFR20 and 10CFR50 Appendix I	12.5	12.2.3.1	12.2.2.5														
12.3 - 12.4	Radiation Protection Design Features	12.3 - 12.4	Radiation Protection Design; Dose Assessment	12.3 - 12.4	Radiation Protection Design Features; Dose Assessment	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
12.3 - 12.4	Radiation Protection Design Features	12.3 - 12.4	Radiation Protection Design; Dose Assessment	12.3 - 12.4	Radiation Protection Design Features; Dose Assessment	Airborne Radionuclide Concentratio Calculation	12.6	12.3.7.1	12.3.3.1														
12.3 - 12.4	Radiation Protection Design Features	12.3 - 12.4	Radiation Protection Design; Dose Assessment	12.3 - 12.4	Radiation Protection Design Features; Dose Assessment	Operational Considerations	12.7	12.3.7.2	12.3.4														
12.3 - 12.4	Radiation Protection Design Features	12.3 - 12.4	Radiation Protection Design; Dose Assessment	12.3 - 12.4	Radiation Protection Design Features; Dose Assessment	Operational Considerations	12.7	12.3.7.2	12.3.4.3														
12.3 - 12.4	Radiation Protection Design Features	12.3 - 12.4	Radiation Protection Design; Dose Assessment	12.3 - 12.4	Radiation Protection Design Features; Dose Assessment	Requirements of 10CFR70.24	12.8	12.3.7.3	12.3.4.3														
12.3 - 12.4	Radiation Protection Design Features	12.3 - 12.4	Radiation Protection Design; Dose Assessment	12.3 - 12.4	Radiation Protection Design Features; Dose Assessment	Material Selection		12.3.7.4	12.3.1.1.2														
12.3 - 12.4	Radiation Protection Design Features	12.3 - 12.4	Radiation Protection Design; Dose Assessment	12.3 - 12.4	Radiation Protection Design Features; Dose Assessment	Radiation Protection (LTR Expected from Applicant)									LTR Expected from Applicant								
12.5	Operational Radiation Protection Program	12.5	Organization	12.5	Health Physics Program	Operation Program #12 - Radiation Protection Program								10									
12.5	Operational Radiation Protection Program	12.5	Organization	12.5.1	Operational Considerations	Radiation Protection Program	12.9	12.5.3.1	12.5.1														
12.5	Operational Radiation Protection Program	12.5	Organization	12.5.2	In-Plant and Airborne Radioactivity Monitoring	Compliance With Paragraph 50.34(f of 10CFR50 and NUREG-0737 Item III.D.3.3	12.10	12.5.3.2	12.5.2														
13	**Conduct of Operations**																						
13.1.1	Management and Technical Support Organization	13.1	Organizational Structure of Applicants	13.1	Organizational Structure of Applicant																		
13.1.2 - 13.1.3	Operating Organization	13.1	Organizational Structure of Applicants	13.1	Organizational Structure of Applicant																		
		13.2	Training	13.2	Training	ABWR Startup Administrative Manual (NEDO-33305)									NEDO-33305								
13.2.1	Reactor Operator Requalification Program; Reactor Operator Training	13.2	Training	13.2.1	Reactor Operator Training	Incorporation of Operating Experience	13.1	13.2.3.1															
13.2.1	Reactor Operator Requalification Program; Reactor Operator Training	13.2	Training	13.2.1	Reactor Operator Training	Operational Program #12 - Reactor Operator Training Program								12									
13.2.1	Reactor Operator Requalification Program; Reactor Operator Training	13.2	Training	13.2.1	Reactor Operator Training	TMI Action Item I.G.1, "Training Requirements for Preoperational an Low-Power Testing."													FSER 13.2 references DCD COL Lic. Inf. Item 13.2.3.2, however, it does not exist in DCD.				
13.2.1	Reactor Operator Requalification Program; Reactor Operator Training	13.2	Training	13.2.1	Reactor Operator Training	Operational Program #13 - Reactor Operator Requalification Program								13									
13.2.2	Non Licensed Plant Staff Training	13.2	Training	13.2.2	Training for Non-Licensed Plant Staff	Operational Program #11 - Non licensed Plant Staff Training Program								11									
13.3	Emergency Planning	13.3	Emergency Planning	13.3	Emergency Planning	The near-site EOF requirements													Additional requirement in FSER. Was originally FSER COL Action Item # 13.3-2				
13.3	Emergency Planning	13.3	Emergency Planning	13.3	Emergency Planning	Emergency Plans	13.2	13.3.1.1	13.3														
13.3	Emergency Planning	13.3	Emergency Planning	13.3	Emergency Planning	Operational Program #14 - Emergency Planning								14									
13.4	Operational Programs																						
		13.4	Review and Audit	13.4	Review and Audit	Review and Audit	13.2a	13.4.1															
		13.5	Plant Procedures	13.5	Plant Procedures	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
		13.5	Plant Procedures	13.5	Plant Procedures	ABWR Procedures Development Plan (NEDO-33297)									NEDO-33297								
13.5.1	Administrative Procedures	13.5	Plant Procedures	13.5.1	Administrative Procedures																		
13.5.2.1	Operating and Emergency Operating Procedures	13.5	Plant Procedures	13.5.2	Operating and Maintenance Procedures	Plant Operating Procedures Development Plan	13.3	13.5.3.1															

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13.5.2.1	Operating and Emergency Operating Procedures	13.5	Plant Procedures	13.5.2	Operating and Maintenance Procedures	Emergency Procedures Development	13.4	13.5.3.2															
13.5.2.1	Operating and Emergency Operating Procedures	13.5	Plant Procedures	13.5.2	Operating and Maintenance Procedures	Plant Operating Procedures Development Plan (LTR Expected from Applicant)									LTR Expected from Applicant								
13.5.2.1	Operating and Emergency Operating Procedures	13.5	Plant Procedures	13.5.2	Operating and Maintenance Procedures	Emergency Procedures Development (LTR Expected from Applicant)									LTR Expected from Applicant								
13.5.2.1	Operating and Emergency Operating Procedures	13.5	Plant Procedures	13.5.2	Operating and Maintenance Procedures	Implementation of the Plan	13.5	13.5.3.3															
13.5.2.1	Operating and Emergency Operating Procedures	13.5	Plant Procedures	13.5.2	Operating and Maintenance Procedures	Procedures Included in Scope of Plan	13.6	13.5.3.4															
13.5.2.2	Maintenance and Other Operating Procedures	13.5	Plant Procedures	13.5.2	Operating and Maintenance Procedures																		
13.6	Physical Security	13.6	Physical Security	13.6	Physical Security	Operational Program #15 - Security Program: Physical Security Program								15									
13.6	Physical Security	13.6	Physical Security	13.6	Physical Security	Operational Program #15 - Security Program: Safeguards Contingency Program								15									
13.6	Physical Security	13.6	Physical Security	13.6	Physical Security	Operational Program #15 - Security Program: Training and Qualification Program								15									
13.6	Physical Security	13.6	Physical Security	13.6	Physical Security	Physical Security Interfaces	13.7	13.6.3	13.6.3 Amendment 33														
		13.6.1	Preliminary Planning	13.6.1	Preliminary Planning																		
		13.6.2	Security Plan	13.6.2	Security Plan																		
		13.6.3	Control of Access to Areas Containing Vital Equipment																				
13.5.1.1	Administrative Procedures - General	13.5	Plant Procedures																				
13.5.1.2	Administrative Procedures - Initial Test Program	13.5	Plant Procedures																				
13.6.1	Physical Security - Combined License Review Responsibilities																						
13.6.2	Physical Security - Design Certification																						
13.6.3	Physical Security - Early Site Permit																						
14	**Initial Test Program and ITAAC-Design Certification**																						
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2	Initial Plant Test Programs	14.0	Initial Test Program	Operational Program #19 - Initial Test Program								19									
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2	Initial Plant Test Programs	14.0	Initial Test Program																		
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.1	Preliminary Safety Analysis Reports Information	14.1	Specific Information to be Included in Preliminary Safety Analysis Reports																		
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2	Initial Plant Test Programs	14.2	Specific Information to be Included in Final Safety Analysis Reports	ABWR Startup Administrative Manual (NEDO-33305)									NEDO-33305								
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2	Initial Plant Test Programs	14.2	Specific Information to be Included in Final Safety Analysis Reports	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2	Initial Plant Test Programs	14.2	Specific Information to be Included in Final Safety Analysis Reports	ABWR Plant Medium Voltage Electrical System Design (NEDO-33335)									NEDO-33335								
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2	Initial Plant Test Programs	14.2	Specific Information to be Included in Final Safety Analysis Reports	CRD Friction Testing Requirements										STP DEP 14.2-1							
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.1	Summary of Test Program and Objectives	14.2.1	Summary of Test Programs and Objectives																		
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.2	Organization and Staffing	14.2.2	Organization and Staffing																		
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.3	Test Procedures	14.2.3	Test Procedures	Test Procedures/Startup Administrative Manual (Summary Level)	14.2	14.2.13.2	14.2.3, 14.2.4, 14.2.10, 14.2.11														
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.3	Test Procedures	14.2.3	Test Procedures	ABWR Startup Test Specification (NEDO-33310)									NEDO-33310								
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.4	Conduct of Test Program	14.2.4	Conduct of Test Program	Other Testing	14.1	14.2.13.1															

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14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.4	Conduct of Test Program	14.2.4	Conduct of Test Program	Test Procedures/Startup Administrative Manual (Summary Level)	14.2	14.2.13.2	14.2.3, 14.2.4, 14.2.10, 14.2.11														
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.5	Review, Evaluation, and Approval of Test Results	14.2.5	Review, Evaluation, and Approval of Test Results																		
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.6	Test Records	14.2.6	Test Records																		
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.7	Conformance of Test Program With Regulatory Guides	14.2.7	Conformance of Test Program with Regulatory Guides																		
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.8	Utilization of Reactor Operating and Testing Experience in the Development of Test Program	14.2.8	Utilization of Reactor Operating and Testing Experience in the Development of Test Program																		
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.9	Trial Use of Plant Operating and Emergency Procedures	14.2.9	Trial Use of Plant Operating and Emergency Procedures																		
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.10	Initial Fuel Loading and Initial Criticality	14.2.10	Initial Fuel Loading and Initial Criticality	Test Procedures/Startup Administrative Manual (Summary Level)	14.2	14.2.13.2	14.2.3, 14.2.4, 14.2.10, 14.2.11														
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.11	Test Program Schedule	14.2.11	Test Program Schedule	Test Procedures/Startup Administrative Manual (Summary Level)	14.2	14.2.13.2	14.2.3, 14.2.4, 14.2.10, 14.2.11														
14.2	Initial Plant Test Program - Design Certification and New License Applicants	14.2.12	Individual Test Descriptions	14.2.12	Individual Test Descriptions																		
14.3	Inspections, Tests, Analyses, and Acceptance Criteria	14.3	Certified Design Material	14.3	Tier 1 Selection Criteria and Processes	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
14.3.2	Structural and Systems Engineering Inspections, Tests, Analyses, and Acceptance Criteria	14.3.2	Certified Design Material for Structures and Systems	14.3.2	Tier 1 Section: 2.0 Certified Design Material for ABWR Systems																		
14.3.3	Piping Systems and Components - Inspections, Tests, Analyses, and Acceptance Criteria	14.3.2	Certified Design Material for Structures and Systems	14.3.2	Tier 1 Section: 2.0 Certified Design Material for ABWR Systems																		
14.3.4	Reactor Systems - Inspections, Tests, Analyses, and Acceptance Criteria	14.3.2	Certified Design Material for Structures and Systems	14.3.2	Tier 1 Section: 2.0 Certified Design Material for ABWR Systems																		
14.3.5	Instrumentation and Controls - Inspections, Tests, Analyses, and Acceptance Criteria	14.3.2	Certified Design Material for Structures and Systems	14.3.2	Tier 1 Section: 2.0 Certified Design Material for ABWR Systems																		
14.3.6	Electrical Systems - Inspections, Tests, Analyses, and Acceptance Criteria	14.3.2	Certified Design Material for Structures and Systems	14.3.2	Tier 1 Section: 2.0 Certified Design Material for ABWR Systems																		
14.3.7	Plant Systems - Inspections, Tests, Analyses, and Acceptance Criteria	14.3.2	Certified Design Material for Structures and Systems	14.3.2	Tier 1 Section: 2.0 Certified Design Material for ABWR Systems																		
14.3.8	Radiation Protection - Inspections, Tests, Analyses, and Acceptance Criteria	14.3.2	Certified Design Material for Structures and Systems	14.3.2	Tier 1 Section: 2.0 Certified Design Material for ABWR Systems																		
14.3.9	Human Factors Engineering - Inspections, Tests, Analyses, and Acceptance Criteria	14.3.2	Certified Design Material for Structures and Systems	14.3.2	Tier 1 Section: 2.0 Certified Design Material for ABWR Systems																		
14.3.10	Emergency Planning - Inspections, Tests, Analyses, and Acceptance Criteria	14.3.2	Certified Design Material for Structures and Systems	14.3.2	Tier 1 Section: 2.0 Certified Design Material for ABWR Systems																		
14.3.11	Containment Systems - Inspections, Tests, Analyses, and Acceptance Criteria	14.3.2	Certified Design Material for Structures and Systems	14.3.2	Tier 1 Section: 2.0 Certified Design Material for ABWR Systems																		
14.3.12	Physical Security Hardware - Inspections, Tests, Analyses, and Acceptance Criteria	14.3.2	Certified Design Material for Structures and Systems	14.3.2	Tier 1 Section: 2.0 Certified Design Material for ABWR Systems																		
15	**Accident Analysis**																						
15.0.1	Radiological Consequence Analyses Using Alternate Source Terms																						
15.0.2	Review of Transient and Accident Analysis Methods	15	Transient and Accident Analysis	15.04	Event Evaluation	Anticipated Operational Occurrences	15.1	15.0.5.1	15.0.4.5														
15.0.2	Review of Transient and Accident Analysis Methods	15	Transient and Accident Analysis	15.04	Event Evaluation	Anticipated Operational Occurrences	15.1	15.0.5.1	15.0.4.5.2														

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15.0.2	Review of Transient and Accident Analysis Methods	15	Transient and Accident Analysis	15.04	Event Evaluation	Operating Limits	15.2	15.0.5.2	15.0.4.5														
15.0.2	Review of Transient and Accident Analysis Methods	15	Transient and Accident Analysis	15.04	Event Evaluation	Operating Limits	15.2	15.0.5.2	15.0.4.5.2														
15.0.2	Review of Transient and Accident Analysis Methods	15	Transient and Accident Analysis	15.04	Event Evaluation	Design Basis Accidents	15.3	15.0.5.3	15.0.4.5.2														
15.0.3(new)	Radiological Consequences of Design Basis Accidents - for ESP, DC, and COL applications																						
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	15.1	Anticipated Operational Occurrences	15.1.1 - 15.1.4	Loss of Feedwater Heating; Feedwater Controller Failure--Maximum Demand; Pressure Regulator Failure--Open; Inadvertent Safety/Relief Valve Opening																		
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)	15.1	Anticipated Operational Occurrences	15.2.1 - 15.2.5	Pressure Regulator Failure--Closed; Generator Load Rejection; Turbine Trip; MSIV Closures; Loss of Condenser Vacuum	Radiological Effects of MSIV Closure	15.4	15.2.10.1	15.2.4.5.3														
15.2.6	Loss of Nonemergency AC Power to the Station Auxiliaries	15.1	Anticipated Operational Occurrences	15.2.6	Loss of Non-Emergency AC Power to Station Auxiliaries																		
15.2.7	Loss of Normal Feedwater Flow	15.1	Anticipated Operational Occurrences	15.2.7	Loss of Feedwater Flow																		
15.3.1 - 15.3.2	Loss of Forced Reactor Coolant Flow Including Trip of Pump Motor and Flow Controller Malfunctions	15.1 - 15.2	Anticipated Operational Occurrences; Trip of All Reactor Internal Pumps and Pressure Regulator Downscale Failure	15.3.1 - 15.3.2	Reactor Internal Pump Trip; Recirculation Flow Control Failure--Decreasing Flow																		
15.3.3 - 15.3.4	Reactor Coolant Pump Rotor Seizure and Reactor Coolant Pump Shaft Break	15.1	Anticipated Operational Occurrences	15.3.3 - 15.3.4	Reactor Internal Pump Seizure; Reactor Internal Pump Shaft Break																		
15.4.1	Uncontrolled Control Rod Assembly Withdrawal from a Subcritical or Low Power Startup Condition	15.4.1	Control Rod Drop Accidents	15.4.1	Rod Withdrawal Error--Low Power																		
15.4.2	Uncontrolled Control Rod Assembly Withdrawal at Power	15.4.1	Control Rod Drop Accidents	15.4.2	Rod Withdrawal Error at Power																		
15.4.3	Control Rod Misoperation (System Malfunction or Operator Error)	15.4.1	Control Rod Drop Accidents	15.4.3	Control Rod Maloperation (System Malfunction or Operator Error)																		
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	15.1	Anticipated Operational Occurrences	15.4.4 - 15.4.5	Abnormal Startup of Idle Reactor Internal Pump; Recirculation Flow Control Failure with Increasing Flow																		
15.4.7	Inadvertent Loading and Operation of a Fuel Assembly in an Improper Position	15.4	Accidents	15.4.7	Mislocated Bundle Accident	Mislocated Fuel Bundle Accident	15.5	15.4.11.1	15.4.7.3														
15.4.7	Inadvertent Loading and Operation of a Fuel Assembly in an Improper Position	15.4	Accidents	15.4.8	Misoriented Fuel Bundle Accident	Misoriented Fuel Bundle Accident	15.6	15.4.11.2	15.4.8.3														
15.4.9	Spectrum of Rod Drop Accidents (BWR)	15.4.1	Control Rod Drop Accidents	15.4.9	Rod Ejection Accident																		
15.4.9.A	Radiological Consequences of Control Rod Drop Accident (BWR)																		No DCD Section				
15.5.1 - 15.5.2	Inadvertent Operation of ECCS and Chemical and Volume Control System Malfunction that Increases Reactor Coolant Inventory	15.1	Anticipated Operational Occurrences	15.5.1 - 15.5.2	Inadvertent HPCF Startup; Chemical Volume Control System Malfunction (or Operator Error)																		
15.6.1	Inadvertent Opening of a PWR Pressurizer Pressure Relief Valve or a BWR Pressure Relief Valve	15.1	Anticipated Operational Occurrences	15.6.1	Inadvertent Safety/Relief Valve Opening																		
15.6.2	Radiological Consequences of the Failure of Small Lines Carrying Primary Coolant Outside Containment	15.4.2	Failure of Small Lines Carrying Primary Coolant Outside Containment	15.6.2	Failure of Small Line Carrying Primary Coolant Outside Containment	Iodine Removal Credit	15.7	15.6.7.1	15.6.2.5.3														
15.6.4	Radiological Consequences of Main Steam Line Failure Outside Containment (BWR)	15.4.3	Main Steamline Failure Outside Containment	15.6.4	Steam System Piping Break Outside Containment	Iodine Removal Credit	15.7	15.6.7.1	15.6.4.5.1.3														

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15.6.5	Loss of Coolant Accidents Resulting from Spectrum of Postulated Piping Breaks Within the Reactor Coolant Pressure Boundary	15.4.4	Loss-of-Coolant Accidents	15.6.5	Loss of Coolant Accident (Resulting from Spectrum of Postulated Piping Breaks Within the Reactor Coolant Pressure Boundary (Inside Containment)	Iodine Removal Credit	15.7	15.6.7.1	15.6.5.5														
15.6.5A	Radiological Consequences of a Design Basis Loss of Coolant Accident Including Containment Leakage Contribution	15.4.4	Loss-of-Coolant Accidents	15.6.5	Loss of Coolant Accident (Resulting from Spectrum of Postulated Piping Breaks Within the Reactor Coolant Pressure Boundary (Inside Containment)														No DCD Section				
15.6.5B	Radiological Consequences of a Design Basis Loss of Coolant Accident: Leakage from Engineered Safety Feature Components Outside Containment	15.4.4	Loss-of-Coolant Accidents	15.6.5	Loss of Coolant Accident (Resulting from Spectrum of Postulated Piping Breaks Within the Reactor Coolant Pressure Boundary (Inside Containment)														No DCD Section				
15.6.5D	Radiological Consequences of a Design Basis Loss of Coolant Accident: Leakage From Main Steam Isolation Valve Leakage Control System (BWR)	15.4.4	Loss-of-Coolant Accidents	15.6.5	Loss of Coolant Accident (Resulting from Spectrum of Postulated Piping Breaks Within the Reactor Coolant Pressure Boundary (Inside Containment)														No DCD Section				
15.7.3	Postulated Radioactive Release Due to Liquid-Containing Tank Failure	15.4.6	Postulated Radioactive Releases Resulting from Liquid Tank Failures	15.7.3	Postulated Radioactive Release Due to Liquid Radwaste Tank Failure	Radiological Consequences of Non-Line Break Accidents	15.9	15.7.6.1	15.7.3.4														
15.7.4	Radiological Consequences of Fue Handling Accidents	15.4.5	Fuel Handling and Fuel Cask Drop Accidents	15.7.4	Fuel-Handling Accident	Radiological Consequences of Non-Line Break Accidents	15.9	15.7.6.1	15.7.4.5.1.3														
15.7.5	Spent Fuel Cask Drop Accidents	15.4.5	Fuel Handling and Fuel Cask Drop Accidents	15.7.5	Spent Fuel Cask Drop Accident	Radiological Consequences of Non-Line Break Accidents	15.9	15.7.6.1	15.7.5.2														
15.8	Anticipated Transients Without Scram	15.5	Anticipated Transient Without Scram	15.8	Anticipated Transients Without Scram																		
15.9 (new)	BWR Core Stability			15.9 (new)															No DCD Section				
15.x (new)	Spent Fuel Pool Criticality and Boron Dilution Analyses			15.x (new)															No DCD Section				
				15A	Plant Nuclear Safety Operational Analysis (NSOA)	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
16	**Technical Specifications**																						
16.1	Risk-Informed Decision Making: Technical Specifications	16.1	Technical Specifications Introduction	16.1	COL License Information																		
				16.1.1	COL Information Required for Plant Specific Technical Specifications	COL Information Required for Plant Specific Technical Specification	16.1	16.1.1															
				16.2		Safety Limit Violation										STP DEP 16.2-1							
				16.2		Safety Limits										STP DEP 16.2-2							
				16.3		LCO Applicability										STP DEP 16.3-1							
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				16.3		SLC										STP DEP 16.3-3							
				16.3		Shutdown Margin										STP DEP 16.3-4							
				16.3		Reactor Internal Pumps (RIPs)										STP DEP 16.3-5							
				16.3		RIPs-Operating										STP DEP 16.3-6							
				16.3		S/RVs										STP DEP 16.3-7							
				16.3		P/T Limits										STP DEP 16.3-8							
				16.3		RHR SDC System										STP DEP 16.3-9							
				16.3		ECCS Operating										STP DEP 16.3-10							
				16.5		Responsibility										STP DEP 16.5-1							
				16.5		Unit Staff										STP DEP 16.5-2							
				16.5		Technical Specification Basis Control										STP DEP 16.5-3							
				16.5		Reporting Requirements										STP DEP 16.5-4							
17.0	**Quality Assurance**																						
17.1	Quality Assurance During the Design and Construction Phases	17.1	Quality Assurance During the Design Phase	17.1	Quality Assurance During Design and Construction	QA Programs For Construction and Operation	17.1	17.0.1.1	17														
17.2	Quality Assurance During the Operations Phase	17.2	Quality Assurance During the Operations Phase	17.2	Quality Assurance During the Operations Phase	Operational Program #16 - Quality Assurance Program - Operation								16									

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17.2	Quality Assurance During the Operations Phase	17.2	Quality Assurance During the Operations Phase	17.2	Quality Assurance During the Operations Phase	QA Programs For Construction and Operation	17.1	17.0.1.1	17														
17.3	Quality Assurance Program Description																						
17.4	Reliability Assurance Program (RAP)	17.3	Reliability Assurance Program	17.3	Reliability Assurance Program - During Design Phase	Policy and Implementation Procedures for D-RAP	17.2	17.3.13.1	17.3.1														
17.4	Reliability Assurance Program (RAP)	17.3	Reliability Assurance Program	17.3	Reliability Assurance Program - During Design Phase	D-RAP Organization	17.3	17.3.13.2	17.3.5														
17.4	Reliability Assurance Program (RAP)	17.3	Reliability Assurance Program	17.3	Reliability Assurance Program - During Design Phase	Provision for O-RAP	17.4	17.3.13.3	17.3.9														
17.4	Reliability Assurance Program (RAP)	17.3	Reliability Assurance Program	17.3	Reliability Assurance Program - During Design Phase	Operational Reliability Assurance Program (LTR Expected from Applicant)									LTR Expected from Applicant								
17.4	Reliability Assurance Program (RAP)	17.3	Reliability Assurance Program	17.3	Reliability Assurance Program - During Design Phase	Design Reliability Assurance Program (LTR Expected from Applicant)									LTR Expected from Applicant								
17.5	Quality Assurance Program Description - Design Certification, Early Site Permit and New License Applicants																						
17.6	Maintenance Rule					Operational Program #17 - Maintenance Rule								17									
18	**Human Factors Engineering**																						
18	Human Factors Engineering	18	Human Factors Engineering	18	Human Factors Engineering																		
		18.2	Design Goals	18.2	Design Goals and Design Bases	Number of Operators Needing Controls Access	18.2	18.8.2	18.2														
		18.3	Main Control Room Standard Design Features	18.4	Control Room Standard Design Features	Main Generator Synchronization Control Relocation										STP DEP 18.4-1							
		18.3	Main Control Room Standard Design Features	18.4.1	Introduction	Standard Design Features Design Validation	18.5	18.8.5	18.4.1														
		18.3	Main Control Room Standard Design Features	18.4.2	Standard Design Feature Descriptions	Standard Design Features Design Validation	18.5	18.8.5	18.4.2.1														
		18.3	Main Control Room Standard Design Features	18.4.2	Standard Design Feature Descriptions	Automation Strategies and Their Effect on Operator Reliability	18.3	18.8.3	18.4.2.6.1														
		18.3	Main Control Room Standard Design Features	18.4.2	Standard Design Feature Descriptions	SPDS Integration With Related Emergency Response Capabilities	18.4	18.8.4	18.4.2.11														
		18.3	Main Control Room Standard Design Features	18.4.2	Standard Design Feature Descriptions	Safety System Status Monitoring	18.9	18.8.9	18.4.2.8														
		18.3	Main Control Room Standard Design Features	18.4.2	Standard Design Feature Descriptions	PGCS Malfunction	18.10	18.8.10	18.4.2.6.1														
		18.5	Remote Shutdown System	18.5	Remote Shutdown System	Remote Shutdown System Design Evaluation	18.6	18.8.6	18.5														
		18.6	Local Valve Position Indication	18.8	COL License Information	Local Valve Position Indication	18.7	18.8.7															
		18.7	Unresolved and Generic Safety Issues	18.8	COL License Information	Operator Training	18.8	18.8.8	19A.2.13														
				18.8	COL License Information	Local Control Stations	18.11	18.8.11															
				18.8	COL License Information	As-Built Evaluation of MCR and RSS	18.12	18.8.12															
				18.8	COL License Information	Accident Monitoring Instrumentation	18.13	18.8.13	1A.2.15														
				18.8	COL License Information	Accident Monitoring Instrumentation	18.13	18.8.13	19A.2.29														
				18.8	COL License Information	In-Core Cooling Instrumentation	18.14	18.8.14	1A.2.16														
				18.8	COL License Information	In-Core Cooling Instrumentation	18.14	18.8.14	19A.2.30														
				18.8	COL License Information	Performance of Critical Tasks	18.15	18.8.15	19D.7														
				18.8	COL License Information	Plant Status and Post Accident Monitoring	18.16	18.8.16	19B.2.65														
				18.A	Emergency Procedure Guidelines	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
		18.7	Unresolved and Generic Safety Issues	18.E	ABWR Human-System Interface Design Implementation Process	HIS Design Implementation Process	18.1	18.8.1	18E														

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				18.F	Emergency Operating Information and Controls	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
19	**Response to Severe Accident Policy Statement**																						
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	3.7	Seismic Design	2.3.1.2	Seismic Design Parameters	Seismic Capacity	19.29	19H.5.1	2.3.1.2														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	7.3	Engineered Safet Features Systems	7A.3	Electrical Isolators	Testing of Isolators	19.28a	19B.3.2	7A.3														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	8.3.2.1.3.1	Class 1E 125 VDC Systems Configuration	Actions to Mitigate Station Blackout Events	19.9	19.9.9	8.3.2.1.3.1														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	12.2	Radiation Sources	12.5.2	In-Plant and Airborne Radioactivity Monitoring	In-Plant Radiation Monitoring	19.24	19A.3.5	12.5.2														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	12.3	Radiation Protection Design	12.5.3.1	Radiation Protection program	In-Plant Radiation Monitoring	19.24	19A.3.5	12.5.3.1														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	12.2	Radiation Sources	12.5.3.2	Compliance With Paragraph 50.34(f)(xxvii) of 10CFR50 and NUREG 0737 Item III.D.3.3	In-Plant Radiation Monitoring	19.24	19A.3.5	12.5.3.2														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	13.2	Training	13.2.3	COL License Information	Feedback of Operating, Design and Construction Experience	19.25	19A.3.6	13.2.3														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	13.5	Plant Procedures	13.5.3	COL License Information	Feedback of Operating, Design and Construction Experience	19.25	19A.3.6	13.5.3														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.3.7.2	Operator Training and Procedures	13.5.3.1	Plant Operating Procedures Development Plan	Long-Term Program of Upgrading o Procedures	19.21	19A.3.2	13.5.3.1														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.3.7.2	Operator Training and Procedures	18.8.8	Operator Training	Long-Term Training Upgrade	19.20	19A.3.1	18.8.8														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.3.3.1.1	ABWR Alternate Decay Heat Removal Features	19.3.1	Frequency of Core Damage	Confirmation of CUW Operation Beyond Design Basis	19.2	19.9.2	19.3.1.3.1														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1	Probabilistic Safety Assessment	19.7	PRA as a Design Tool	ABWR Plant Medium Voltage Electrical System Design (NEDO-33335)									NEDO-33335								
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1	Probabilistic Safety Assessment	19.7	PRA as a Design Tool	Control Rod Drive Improvements										STP DEP 19.7-1							
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	19.7.3	PRA Studies During The Certification Effort	Manual Operation of MOVs	19.15	19.9.15	19.7.3(3)(a)														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2.2.1.2	Station Blackout	19.7.3(3a)	PRA Studies During The Certification Effort	Actions to Mitigate Station Blackout Events	19.9	19.9.9	19.7.3(3a)														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	19.8	Important Features Identified by the ABWR PRA	Seismic Capacity	19.29	19H.5.1	19.8														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	19.8.2	Important Features From Seismic Analyses	Plant Walkdowns	19.5	19.9.5	19.8.2.3														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2	Severe Accident Performance	19.8.4	Important features From Suppression Pool Bypass and Ex-Containment LOCA Analyses	Procedures to Insure Sample Lines and Drywell Purge Lines Remain Closed During Operation	19.18	19.9.18	19.8.4.3														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.2.3	Plant features and Operator Actions Important to Risk	19.10.8	Fire Truck Insights	Procedures and training for Use of AC-Independent Water Addition System	19.7	19.9.7	19.10.8														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2.5	Accident Management	19.11	Human Action Overview	Accident Management	19.14	19.9.14	19.11														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	19.13.4	Additional Studies	Event Specific Procedures For Sever External Flooding	19.3	19.9.3	19.13.4														
				19A	Response to CP/ML Rule 10 CFR 50.34(f)	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.3.7.2	Operator Training and Procedures	19A.2.13	Long-Term Training Upgrade	Long-Term Training Upgrade	19.20	19A.3.1	19A.2.13														

SRP section no.	SRP section title	FSER Section #	FSER Section Title	DCD Section No.	DCD Section Title	COL Issues for NRC Review													Comments	Closure References			Consistent with RG 1.206, C.III - to be added later
						COL Issue Title	COL Items: Table 1.9 COL Info. Item No.	COL Items: DCD Subsection Ref.	COL Items: Additional DCD References	Interfaces for Standard Design (Item No.)	DAC/ITAAC for NRO Review	Generic Design Change	Plant Specific Design Departure	Operational Program	Tech. Rpt. No.	Departure Status Report (See Tier 1 Departures at Bottom of Matrix)	Generic Issue	ESP action item		DC FSER Section	SSER Section	Other	
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.3.8	Summary of Test Program and Objectives	19A.2.14	Long-Term Program of Upgrading of Procedures	Long-Term Program of Upgrading o Procedures	19.21	19A.3.2	19A.2.14														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2	Severe Accident Performance	19A.2.27	Purging	Purge System Reliability	19.22	19A.3.3	19A.2.27														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	13.3	Emergency Planning	19A.2.37	Upgrade License Emergency Support Facility	Licensing Emergency Support Facility	19.23	19A.3.4	19A.2.37														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	12.3	Radiation Protection Design	19A.2.39	Inplant Radiation Monitoring Program	In-Plant Radiation Monitoring	19.24	19A.3.5	19A.2.39														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	13.5	Plant Procedures	19A.2.41	Procedures for Feedback of Operating, Design, and Construction Experience	Feedback of Operating, Design and Construction Experience	19.25	19A.3.6	19A.2.41														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	17	Quality Assurance	19A.2.43	Develop More Detailed QA Criteria	Develop More Detailed QA Criteria	19.27	19A.3.8	19A.2.43														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	13.2	Training	19A.2.47	Organization and Staffing to Oversee Design and Construction	Organization and Staffing to Oversee Design and Construction	19.26	19A.3.7	19A.2.47														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	20	Generic Issues	19B	Resolution of Applicable Unresolved Safety Issues and Generic Safety Issues	ABWR Plant Medium Voltage Electrical System Design (NEDO-33335)									NEDO-33335								
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	20	Generic Issues	19B	Resolution of Applicable Unresolved Safety Issues and Generic Safety Issues	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	20	Generic Issues	19B.1.1	Purpose	COL Applicant Safety Issues	19.28	19B.3.1	19B.1.1														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	7.8	COL License Information	19B.2.53	Leakage Through Electrical Isolators in Instrumentation Circuits	Testing of Isolators	19.28a	19B.3.2	19B.2.53														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2.2.1.2	Station Blackout	19B.2.54	Availability of Chilled Water Systems and Room Cooling	Actions to Mitigate Station Blackout Events	19.9	19.9.9	19B.2.54														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	19D	Probabilistic Evaluations	Confirmation of Loss of AC Power Event	19.6	19.9.6	19D.3.1.2.4														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	19D	Probabilistic Evaluations	Accident Management	19.14	19.9.14	19D.7														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	19D	Probabilistic Evaluations	Reactor Service Water Systems Definition	19.19g	19.9.26	19D.6.4.2														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.2.3	Plant Features and Operator Actions Important to Risk	19D	Probabilistic Evaluations	High Pressure Core Flooder Discharge Valve	19.16	19.9.16	19D.7.7.5														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.2.5	Insights From Uncertainty, Importance, and Sensitivity Analyses	19D	Probabilistic Evaluations	Actions to Avoid Common-Cause Failures in the Essential Multiplexing System (EMUX) and Other Common Cause Failures	19.8	19.9.8	19D.7														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.5.3	Important Design Features for Containmen Performance	19D	Probabilistic Evaluations	ECCS Test and Surveillance Intervals	19.13	19.9.13	19D.6														
				19E	Deterministic Evaluations	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2.2.1.2	Station Blackout	19E.2.1.2	ABWR Configuration Basis	Actions to Mitigate Station Blackout Events	19.9	19.9.9	19E.2.1.2														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2.2.1.2	Station Blackout	19E.2.1.2.2.2	Core Cooling	Actions to Mitigate Station Blackout Events	19.9	19.9.9	19E.2.1.2.2.2(2)(b)														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2.2.1.2	Station Blackout	19E.2.1.2.2.2	Core Cooling	Actions to Mitigate Station Blackout Events	19.9	19.9.9	19E.2.1.2.2.2(2)(a)														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2.3	Deterministic Assessment of Severe Accident Mitigation	19E.2.1.2.2.2	Core Cooling	Procedures to Assure SRV Operability During Station Blackout	19.19c	19.9.22	19E.2.1.2.2.2														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.5.3	Important Design Features for Containmen Performance	19E.2.1.2.3	Equipment Survivability	Capability of Vacuum Breakers	19.19h	19.9.27	19E.2.1.2.3														

SRP section no.	SRP section title	FSER Section #	FSER Section Title	DCD Section No.	DCD Section Title	COL Issues for NRC Review													Comments	Closure References			Consistent with RG 1.206, C.III - to be added later
						COL Items																	
						COL Issue Title	Table 1.9 COL Info. Item No.	DCD Subsection Ref.	Additional DCD References	Interfaces for Standard Design (Item No.)	DAC/ITAAC for NRO Review	Generic Design Change	Plant Specific Design Departure	Operational Program	Tech. Rpt. No.	Departure Status Report (See Tier 1 Departures at Bottom of Matrix)	Generic Issue	ESP action item		DC FSER Section	SSER Section	Other	
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2.3	Deterministic Assessment of Severe Accident Mitigation	19E.2.1.2.3	Equipment Survivability	Capability of the Containment Atmospheric Monitoring System	19.19i	19.9.28	19E.2.1.2.3														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2.2.1.2	Station Blackout	19E.2.2.8	Concurrent Station Blackout with ATWS (NSRC)	Accident Management	19.14	19.9.14	19E.2.2.8														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.9.2	Adequacy of GE's Treatment of the Reactor Water Cleanup System	19E.2.3	Justification of Phenomenological Assumptions	Post Accident Recovery Procedure For Unisolated CUW Line Break	19.1	19.9.1	19E.2.3.3														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	3.9	Mechanical Systems and Components	19H.4.3	Generic Components	Seismic Capacity	19.29	19H.5.1	19H.4.3														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	19H.5.1	Seismic Capacity	Confirmation of Seismic Capacities Beyond the Plant Design Bases	19.4	19.9.4	19H.5														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	19H.5.1	Seismic Capacity	Plant Walkdowns	19.5	19.9.5	19H.5.1														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.3.1	Seismic Events	19I	Seismic Margins Analysis	Seismic Capacity	19.29	19H.5.1	Appendix 19I														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2.3.3	Severe Accident Mitigative Features	19I.3.1	Support State Event Tree	Housing of ACIWA	19.19b	19.9.21	19I.3.1														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.7	PRA-Based Input to the Certified Design	19K.11.5	AC-Independent Water Addition (Firewater System)				19K.11.5														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	9.5.1	Fire Protection System	19M.3	Summary of Results	Manual Control of RCIC		19M.7.1	19M.3														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.3.2.3	Plant Features and Operator Actions Important to Risk	19M.6.2	Results	Procedures for Operation of RCIC From Outside the Control Room	19.12	19.9.12	19M.6.2														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.2.3	Plant features and Operator Actions Important to Risk	19N.4.12	Summary				19N.4.12														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.3.6	Shutdown Risk Insights	19Q	ABWR Shutdown Risk Assessment	Actions to Avoid Loss of Decay Heat Removal and Minimize Shutdown Risk	19.11	19.9.11	Appendix 19Q														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.3.5	Flooding and Fire Protection	19Q.6	Flooding and Fire Protection	Procedures for Controlling Combustion During Shutdown	19.19e	19.9.24	19Q.6														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.3.3.2.1.1	Use of Freeze Seals in ABWR	19Q.8	Use of Freeze Seals in ABWR	Procedures for Ensuring Integrity of Freeze Seals	19.19d	19.9.23	19Q.8														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	19Q.10	Procedures	Outage Planning and Control	19.19f	19.9.25	19Q.10														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2.3.3.5.1	Preventative and/or Mitigative Features	19Q.10	Procedures	Plant Specific Safety-Related Issues and Vendors Operating Guidance	19.19j	19.9.29	19Q.10														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights	19R	Probabilistic Flooding Analysis	Actions to Reduce Risk of Internal Flooding	19.10	19.9.10	Appendix 19R														
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.3.5	Flooding and Fire Protection	19R	Probabilistic Flood Analysis	Event Specific Procedures For Sever External Flooding	19.3	19.9.3	Appendix 19R														
				19R	Probabilistic Flooding Analysis	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19	Severe Accidents																				
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.2	Severe Accident Performance			Capability of Containment Isolation Valves	19.17	19.9.17															
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3	Advanced Boiling Water Reactor Probabilistic Risk Assessment-Based Safety Insights			Actions to Assure Reliability of the Supporting RCW and Service Water Systems	19.19a	19.9.20															
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.2.3	Plant features and Operator Actions Important to Risk			Procedures for Combustion Turbine Generator to Supply Power to Condensate Pumps	19.19	19.9.19															
19	Probabilistic Risk Assessment and Severe Accident Evaluation for New Reactors	19.1.3.2.4	Interface and COL Applicant Action Items			PRA Update	19.30	19.9.30															
19.1	Determining the Technical Adequacy of Probabilistic Risk Assessment Results for Risk-Informed Activities																						

SRP section no.	SRP section title	FSER Section #	FSER Section Title	DCD Section No.	DCD Section Title	COL Issues for NRC Review													Comments	Closure References			Consistent with RG 1.206, C.III - to be added later
						COL Items																	
						COL Issue Title	Table 1.9 COL Info. Item No.	DCD Subsection Ref.	Additional DCD References	Interfaces for Standard Design (Item No.)	DAC/ITAAC for NRO Review	Generic Design Change	Plant Specific Design Departure	Operational Program	Tech. Rpt. No.	Departure Status Report (See Tier 1 Departures at Bottom of Matrix)	Generic Issue	ESP action item		DC FSER Section	SSER Section	Other	
19.2	Review of Risk Information Used to Support Permanent Plant-Specific Changes to the Licensing Basis: General Guidance																						
20	**Question and Response Guide**																						
				20B	Equipment Data Base	ABWR Hydrogen Recombiner Requirements Elimination (NEDO-33330)									NEDO-33330								
	Generic Information																						
						New Generic Issue 156: Systematic Evaluation Program											New Generic Issue 156		NUREG-0933 App. B: Potential Applicability to Future Plant				
						New Generic Issue 172: Multiple System Responses Program											New Generic Issue 172		This issue concerns topics that ORNL considers should be addressed in the plant-specific PRA for specific applications.				
						New Generic Issue 177: Vehicle Intrusion at TMI											New Generic Issue 177		NUREG-0933 App. B: Potential Applicability to Future Plant				
						New Generic Issue 181: Fire Protection											New Generic Issue 181		NRC program for a strong, broad-based and coherent fire protection program				
						New Generic Issue 186: Potential Risk and Consequences of Heavy Load Drops in Nuclear Power Plants											New Generic Issue 186		NUREG-0933 App. B: Potential Applicability to Future Plant				
						New Generic Issue 189: Susceptibility of Ice Condenser and Mark III Containments to Early Failure from Hydrogen Combustion During a Severe Accident											New Generic Issue 189		NUREG-0933 App. B: Potential Applicability to Future Plant				
						New Generic Issue 193: BWR ECCS Suction Concerns											New Generic Issue 193		NUREG-0933 App. B: Potential Applicability to Future Plant				
						New Generic Issue 194: Implications of Updated Probabilistic Seismic Hazard Estimates											New Generic Issue 194						
						New Generic Issue 196: Boral Degradation											New Generic Issue 196		NUREG-0933 App. B: Potential Applicability to Future Plant				
						New Generic Issue 199: Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States for Existing…											New Generic Issue 199		NUREG-0933 App. B: Potential Applicability to Future Plant				
						New Generic Issue 200: Tin Whiskers											New Generic Issue 200		NUREG-0933 App. B: Potential Applicability to Future Plant				
						New Generic Issue 202: Spent Fuel Pool Leakage Limits											New Generic Issue 202		Initial screening completed. Review of the screening to be completed.				
						0																	
						HF1.1											HF1.1						
						HF4.4											HF4.4						
						HF5.1											HF5.1						
						HF5.2											HF5.2						
						Generic Communications										Generic Communications			Review of relevant operating experience contained in NRC Bulletins and Generic Letters issued after NRC Bulletin 91-01 and GL 91-17.				

References

SRP	NRC Standard Review Plan, NUREG-0800, March 2007
SER	ABWR Safety Evaluation Report, NUREG-1503
SSER	Suplemental SER
DCD	ABWR Design Control Document Rev. 4
RG 1.206	US NRC Regulatory Guide 1.206,
NUREG-0933	Generic Issues, with new issues screened using Appendix B. Some New Issues were identified in personal communications and unreleased drafts on the status of GIs.

Operational Program	SRP Section
1. Inservice Inspection Program	5.2.4, 6.6
2. Inservice Testing Program	3.9.6, 5.2.4
3. Environmental Qualification	3.11
4. Preservice Inspection Program	5.2.4, 6.6
5. Reactor Vessel Material Surveillance Program Surveillance Program	5.3.1
6. Preservice Testing Program 1	3.9.6
7. Containment Leakage Rate Testing Program	6.2.6
8. Fire Protection Program	9.5.1
9. Process and Effluent Monitoring and Sampling Program:	
Radiological Effluent Technical Specifications/Standard Radiological Effluent Controls (RETS/SREC)	11.5
Offsite Dose Calculation manual (ODCM)	11.5
Radiological Environmental Monitoring Program (REMP)	11.5
Process Control Program (PCP)	11.4
10. Radiation Protection Program	12.5
11. Non licensed Plant Staff Training Program	13.2.2
12. Reactor Operator Training Program	13.2.1
13. Reactor Operator Requalification Program	13.2.1
14. Emergency Planning	13.3
15. Security Program:	13.6.1
Physical Security Program	
Safeguards Contingency Program	
Training and Qualification Program	
16. Quality Assurance Program - Operation	17.5
17. Maintenance Rule	17.6
18. Motor-Operated Valve Testing	3.9.6
19. Initial Test Program	14.2

Overview of the ABWR Matrix

This matrix was developed to provide NRC a reference document of regulatory open items and issues that need to be evaluated when the NRC staff reviews combined license (COL) applications.

are reviewing the submittal to determine if the organization and content of the matrices may be refined to be more intuitive and effective. We are also checking the quality of the data and discussing how to make the structures of the ABWR and AP1000 matrices more consistent, with the recognition that there are differences in how COL action items and information items are defined for the two plant types. [The DCD for the ABWR is also 13+ years old, and its structure is not identical to the AP1000 DCD.] NRC feedback on the early matrices may result in additional near-term changes.)

1. SRP Section Number and Title

structure.

2. FSER Section Number and Title

These columns contain the FSER Section Number and Title that correspond to the SRP section. The correspondence is to be based on subject matter rather than section numbers, although in most instances, the numbering also matches the SRP section numbering.

3. DCD Section Number and Title

correspondence is to be based on subject matter rather than section numbers, although in most instances, the numbering also matches the SRP section numbering. If COL items pertain to a DCD section that is not included in the SRP structure, then an additional matrix row is added for the new DCD section. In the present structure, if a matrix row was added for a new DCD section, the SRP Section Number and Title were left blank to indicate that the SRP structure did not contain the section corresponding to the

4. COL Issue Title

technical report, Interfaces for Standard Designs, etc. The COL issues are referenced to the pertinent technical section of the DCD (vs. the administrative or COL License Information section) when it could be readily discerned.

5. Table 1.9 COL Info. Item No.

This column contains the Item No. from DCD Table 1.9 issues.

6. DCD Subsection Ref.

is almost always to a DCD subsection entitled COL License Information. The technical section (vs. the administrative section or COL License Information Section number) is used as the reference to the DCD Section Number (Item 3 above).

7. Additional DCD References
A review of the DCD Subsection Reference (in a COL License Information subsection) frequently references a technical section of the DCD. This section reference is captured in this column. A technical section may also refer to the DCD Subsection Reference for COL Information. This column was used to note the technical sections that may reference COL License Information sections as well.

8. Interfaces for Standard Design

subsection.

9. ITAAC

ITAAC reference number from DCD Tier 1. ITAAC information is presently listed separately from the other matrix information and will be further addressed later.

10. Generic Design Change

TBD

11. Plant Specific Design Departure

TBD

12. Operation Program

SRP Section 13.4 identifies 19 specific operational programs that need to be addressed by the licensee. These operational programs have been inserted into the matrix under the appropriate SRP section.

13. Tech Report #

this column. In some cases, a technical report is noted to be expected in the future for a specific subject. In some cases, a new matrix row was added if the reference is to a DCD section that does not correspond to an existing SRP section.

14. Departure Status Report

Departures from the DCD provided by STP. Departure number from August 2, 2007, file is placed in this column. The title of the issue is shown in the COL issue title column.

15. Generic Issue

This column was used to record new Generic Issue numbers. The title of the generic issue was captured in the COL Issue Title column.

16. ESP action items

NA to likely ABWR applicants.

17. Comments

Use this column for added information

18. Closure references

The use of these 3 columns is TBD.

19. Consistent with RG 1.206

To be added later.

20. Sort Column

Column values were added to the matrix to permit the original matrix order to be restored after sorting.