

## F. COMBINED LICENSE ACTION ITEMS

FSER Item	DCD Table 1.8-2	DCD Section	Description
2.1.1-1	2.1-1	2.1.1	COL applicants referencing the AP1000 certified design will provide site-specific information related to site location and description, including political subdivisions, natural and man-made features, population, highways, railways, waterways, and other significant features of the area.
2.1.2-1	2.1-1	2.1.1	COL applicants referencing the AP1000 certified design will provide site-specific information on the exclusion area authority and control, as well as any activity that may be permitted within the exclusion area.
2.1.3-1	2.1-1	2.1.1	COL applicants referencing the AP1000 certified design will provide site-specific information on population distribution.
2.2-1	2.2-1	2.2.1	COL applicants referencing the AP1000 certified design will provide site -specific information related to the identification of potential hazards, stemming from nearby industrial, transportation, and military facilities within the site vicinity, including an evaluation of potential accidents (such as explosions, flammable vapor clouds, toxic chemicals, fires, and airplane crashes).
2.3.1-1	2.3-1	2.3.6.1	The COL applicant will provide site-specific regional climatology information.
2.3.2-1	2.3-2	2.3.6.2	The COL applicant will provide site-specific local meteorology information.
2.3.3-1	2.3-3	2.3.6.3	The COL applicant will provide the onsite meteorological measurements program.
2.3.4-1	2.3-4	2.3.6.4	The COL applicant will determine the site specific $\chi/Q$ values. If the site-specific values exceed the bounding $\chi/Q$ values, the COL applicant will address how the radiological consequences associated with the controlling design basis accident continue to meet the radiological dose consequence criteria given in Title 10, Section 50.34(a)(1)(ii)(D)(1) and (2), of the <i>Code of Federal Regulations</i> (10 CFR 50.34), using site-specific $\chi/Q$ values.

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2.3.4-2	2.3-4	2.3.6.4	The COL applicant will determine the site specific $\chi/Q$ values. If the site-specific values exceed the bounding $\chi/Q$ values, the COL applicant will address how the radiological consequences associated with the controlling design basis accident continue to meet the control room operator dose limits given in General Design Criterion 19, using site-specific $\chi/Q$ values.
2.3.4-3	2.3-4	2.3.6.4	The COL applicant will provide $\chi/Q$ values for each cumulative frequency distribution that exceeds the median value (50 percent of the time).
2.3.5-1	2.3-5	2.3.6.5	The COL applicant will provide site-specific long-term diffusion estimates and $\chi/Q$ values for any selected site where the $\chi/Q$ value at or beyond the site boundary falls outside of the bounds of the site parameter for atmospheric dispersion. The COL applicant will address how the postulated radiological consequences will stay within the dose reference values.
2.3.5-2	2.3-5	2.3.6.5	The COL applicant will provide estimates of annual average $\chi/Q$ values for 16 radial sectors to a distance of 50 miles from the plant.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
2.4.1-1	2.4-2 2.4-3 2.4-4 2.4-5 2.4-6 2.5-8	2.4.1.2 2.4.1.3 2.4.1.4 2.4.1.5 2.4.1.6 2.5.4.5.4	The COL applicant will provide site-specific information on historical flooding and potential flooding factors, including the effects of local intense precipitation. The COL applicant will also provide site-specific information on the water supply sources to provide makeup water to the service water system cooling tower. Additionally, the COL applicant will provide site-specific information on groundwater. In addition, the COL applicant will provide site-specific information on the ability of the ground and surface water to disperse, dilute, or concentrate accidental releases of liquid effluents. The COL applicant will also address the effects of such releases on existing and known future use of surface water resources. Additionally, the COL applicant will provide any flood protection emergency procedures necessary to meet the site parameter for flood level. In addition, the COL applicant will provide detailed site-specific information on the groundwater, relative to the foundation stability of the safety-related structures at the site.
2.5.1-1	2.5-1, 2.5-5	2.5.1, 2.5.4.5.1	COL applicants referencing the AP1000 certified design will provide site-specific geological, seismological, and geophysical information as well as conditions caused by human activities.
2.5.2-1	2.5-2	2.5.2.1	COL applicants referencing the AP1000 certified design will provide site specific information related to seismicity, as well as geologic and tectonic characteristics of the site and region.
2.5.2-2	2.5-11	2.5.4.5.7	The COL applicant will provide information on the plant design accounting for static and dynamic lateral earth pressures and hydrostatic groundwater pressures acting on plant safety -related facilities.
2.5.3-1	2.5-4	2.5.3	The COL applicant will provide detailed surface and subsurface geological, seismological, and geophysical information.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
2.5.4-1	2.5-7	2.5.4.5.3	The COL applicant will provide site-specific information about the extent (horizontal and vertical) of seismic Category I excavations, fills, and slopes.
2.5.4.3-1	2.5-9	2.5.4.5.5	The COL applicant will provide site-specific information on soil liquefaction.
2.5.5-1	2.5-12, 2.5-14	2.5.4.5.9, 2.5.5	The COL applicant will perform site-specific static and dynamic stability analyses or evaluations of the nuclear island which includes foundation rebound, settlement, and differential settlement. The COL applicant will also provide site-specific information about the static and dynamic stability of soil and rock slopes, the failure of which could adversely affect the nuclear island.
2.5.6-1	2.5-15	2.5.6	COL applicants referencing the AP1000 design will provide site -specific information about the static and dynamic stability of embankments and dams, the failure of which could adversely affect the nuclear island.
2.6-1	2.4-1	2.4.1.1	The COL applicant will provide a detailed description of the major hydrologic features.
2.6-2	2.5-3	2.5.2.3	The COL applicant will provide site-specific soil-structure interaction analyses to demonstrate the acceptability of the seismic and soil characteristics.
2.6-3	2.5-6	2.5.4.5.2	The COL applicant will establish the site-specific properties of the foundation soils to be within the range considered for design of the nuclear island basemat.
2.6-4	2.5-10	2.5.4.5.6	The COL applicant will provide site-specific information on allowable soil bearing capacities for static and dynamic loads.
2.6-5	2.5.13	2.5.4.5.10	The COL applicant will provide information pertaining to subsurface instrumentation.
3.3.2.2-1	3.3-1	3.3.3	COL applicants referencing the AP1000 certified design will address site interface criteria for wind and tornadoes.
3.4.1.1-1	3.4-1	3.4.3	The COL applicant will evaluate events leading to potential flooding and demonstrate that the design will fall within the values of these site parameters.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
3.5.1.5-1	3.5-1	3.5.4	The COL applicant will provide site-specific information that the site is protected against those external events that produce missiles that are more energetic than the tornado missiles postulated for design of the AP1000 reactor, or additional analyses of the AP1000 capability to protect against the specific hazard.
3.6.2.3-1	3.6-1	3.6.4.1	COL applicants referencing the AP1000 certified design will provide the site-specific final pipe whip restraint design and will address as-built reconciliation of the pipe break hazards analysis.
3.6.3.1-1	3.6-3	3.6.4.3	The COL applicant should verify that the actual material properties and the final as-built piping analyses meet the acceptance parameters established in the bounding leak-before-break (LBB) analyses.
3.6.3.1-2	3.6-2	3.6.4.2	COL applicants referencing the AP1000 certified design will complete the LBB evaluation by comparing the results of the as-designed piping stress analysis with the bounding analysis curves
3.6.3.4-1	3.6-4	3.6.4.4	COL applicants referencing the AP1000 certified design will develop an inspection program for piping systems that are qualified for LBB.
3.7.2.13-1	3.7-1	3.7.5.1	The COL applicant will perform seismic analyses for evaluating the safety of existing or new dams, the failure of which could affect the site interface flood. This evaluation of the safety of existing and new dams will use the site-specific safe-shutdown earthquake.
3.7.5-1	3.7-4	3.7.5.4	The COL applicant will reconcile the seismic analyses for detail changes at rock sites, such as those attributable to as-procured equipment information.
3.7.5-2	3.7-2	3.7.5.2	The COL applicant will specify site-specific procedures for activities following an earthquake and those procedures will follow the guidance of Reports NP-5930, TR-100082, and NP-6695 promulgated by the Electric Power Research Institute (EPRI).

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
3.7.5-3	3.7-3	3.7.5.3	The COL applicant will provide an updated seismic interaction review, which will be performed in parallel with the seismic margin evaluation.
3.7.5-4	3.7-5	3.7.5.5	The COL applicant will determine the location for the free-field acceleration sensor.
3.8.2.4.1.2-1	3.8-1	3.8.6.1	The COL applicant will complete the final design of containment vessel elements (reinforcements) adjacent to concentrated masses (penetrations), and will document that design in the design report prepared in accordance with the Boiler and Pressure Vessel Code promulgated by the American Society of Mechanical Engineers (ASME Code).
3.8.6-1	3.8-2	3.8.6.2 3.8.4.7	The COL applicant will examine the structures supporting the passive containment cooling storage tank on the shield building roof during initial tank filling.
3.8.6-2	3.8-3	3.8.6.3	The COL applicant will evaluate any deviations from the design that may be attributable to as-procured or as-built conditions, and will summarize the results of that evaluation in an as-built summary report.
3.8.6-3	3.8-4	3.8.2.7, 3.8.6.4	The COL applicant will perform inservice inspection (ISI) of the containment in accordance with Section XI, Subsection IWE, of the ASME Code.
3.9.2.3-1	3.9-1	3.9.8.1	The COL applicant will provide information (including predicted vibration response and allowable response) prior to the preoperational vibration testing of the first AP1000 reactor.

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3.9.2.4-1	3.9-2	3.9.8.2	The COL applicant will complete the AP1000 Design Specifications and Design Reports, and will make them available for audit by the staff of the U.S. Nuclear Regulatory Commission (NRC). The COL applicant will also address findings from the EPRI/Materials Reliability Project (MRP) reactor internals material reliability programs that are applicable to the design of the AP1000 reactor internals. <i>[The design report for the ASME Class 1, 2, and 3 piping will include the reconciliation of the as-built piping as outlined in subsection 3.9.3. This reconciliation includes verification of the thermal cycling and stratification loadings considered in the stress analysis discussed in subsection 3.9.3.1.2.]*</i>
3.9.6.4-1	3.9-4	3.9.8.4	The COL applicant will provide an inservice test (IST) program that complies with the inservice testing requirements for valves.
3.9.8-1	3.9-3	3.9.8.3 3.9.3.4.3	COL applicants referencing the AP1000 design will develop a program to verify operability of essential snubbers.
3.10-1	3.10-1	3.10.6	<i>[The Combined License applicant will address, as part of the Combined License application, identification of the equipment qualified based on experience and include details of the methodology and the corresponding experience data. The corresponding experience data for each piece of equipment will be included in the equipment qualification file.]*</i>
3.11.2-1	3.11-1	3.11.5	The COL applicant is responsible for maintaining the equipment qualification file during the equipment selection and procurement phase.
3.12.4.5-1	3.9-6	3.9.8.6	The COL applicant will implement a benchmark program, if a piping analysis computer program other than one of those used for design certification is used.
3.12.5.10-1	3.9-5	3.9.8.5	The first AP1000 COL holder will implement a monitoring program at the first AP1000 plant to record temperature distributions and thermal displacements of the surge line piping.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
4.2.8-1	4.2-1 4.3-1 4.4-1	4.2.5 4.3.4 4.4.7	COL applicants referencing the AP1000 certified design will address changes to the reference design of the fuel, burnable absorber rods, rod cluster control assemblies, or initial core design from that presented in the DCD.
4.4-1	4.4-2	4.4.7	Following selection of the actual plant operating instrumentation and calculation of the instrumentation uncertainties of the operating plant parameters, the COL applicant will calculate the design limit departure from nucleate boiling ratio (DNBR) values using the revised thermal design procedure with these instrumentation uncertainties and confirm that either the design limit DNBR values remain valid, or that the safety analysis minimum DNBR bounds the new design limit DNBR values plus DNBR penalties, such as rod bow penalty.
4.5.1-1	5.2-2	5.2.6.2	The COL applicant will provide a preservice inspection program which will include examinations of the reactor vessel closure head.
4.5.1-2	5.2-2	5.2.6.2	The COL applicant's inservice inspection program will address the susceptibility calculations, inspections of the reactor vessel closure head, and associated reports and notifications, as defined in NRC Order EA-03-009.
5.2.1.1-1	5.2-1	5.2.6.1	The COL applicant will address consistency of the design with the construction practices (including inspection and examination methods) of later ASME Code edition and addenda.
5.2.2.2-1	5.3-1	5.3.6.1	The COL applicant will provide site-specific pressure-temperature (P/T) curves for staff review.



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5.2.4.1-1	5.2-2	5.2.6.2	The COL applicant will provide plant-specific preservice inspection and ISI programs. These programs will reference the edition and addenda of ASME Code Section XI used for selecting components subject to examination, describe the components that are exempted from examination by the applicable code, and provide drawings or other descriptive information used for the examination.
5.3.2.2-1	5.3-3	5.3.6.3	The COL applicant will confirm the surveillance capsule lead factors and azimuthal locations through an analysis that includes modeling of the capsule/holder.
5.3.2.4-1	5.3-2	5.3.6.2	The COL applicant will provide its reactor vessel material surveillance program.
5.3.4.3-1	5.3-4	5.3.6.4	The COL applicant will verify and provide the plant-specific belt line material properties, which will include a pressurized thermal shock evaluation based on as-procured reactor vessel material data and the projected neutron fluences for the plant design objective of 60-years. <sup>1</sup>
5.4.2.2.3-1	5.4-1	5.4.15	The COL applicant will develop and provide a steam generator tube surveillance program.
6.1.1-1	6.1-1	6.1.3.1	The COL applicant will review vendor fabrication and welding procedures or other quality assurance methods to ensure that austenitic stainless steels meet the guidelines of RGs 1.31 and 1.44.
6.1.2-1	6.1-2	6.1.3.2	The COL applicant will prepare a program to control procurement, application, and monitoring of Service Level I and Service Level III coatings.
6.2.1.8.1-1	6.3-1	6.3.8.1	The COL applicant will develop a program to limit the amount of debris that might be left in the containment following refueling and maintenance outages.

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<sup>1</sup>Westinghouse letter dated August 11, 2004 provided a DCD markup to specify "...for the plant design objective of 60-years."

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
6.2.1.8.2-1	6.3-2	6.3.8.2	The COL applicant will perform an evaluation consistent with RG 1.82, Revision 3, and based on the resolution of Generic Safety Issue (GSI) 191, to confirm that adequate long-term core cooling is available considering debris resulting from a loss-of-coolant-accident (LOCA), together with debris that exists before a LOCA.
6.2.6-1	6.2-1	6.2.6	The COL applicant will develop and submit a containment leakage rate testing program.
6.4-1	6.4-2	6.4.7	The COL applicant will verify that procedures and training for control room habitability are consistent with GSI-83, "Control Room Habitability."
6.4-2	6.4-3	6.4.7	The COL applicant will provide the testing frequency for the main control room inleakage test.
6.4-3	6.4-1	6.4.7	The COL applicant will determine the amount and location of possible sources of toxic chemicals in or near the plant and for seismic Category I Class 1E toxic gas monitoring, using methods discussed in RG 1.78.
6.6-1	6.6-1	6.6.9.1	The COL applicant will develop a preservice inspection program (nondestructive examination) and an ISI program for ASME Code, Section III Class 2 and 3 systems, components, and supports.
6.6-2	6.6-2	6.6.9.2	The COL applicant is responsible for preserving accessibility and inspectability for ASME Code, Section III, Class 2 and 3 components and piping during construction or other post-design-certification activities.
7.1.7-1	7.1-1, 7.1-2	7.1.6	The COL applicant will provide a calculation of setpoints for protective functions consistent with the methodology presented in WCAP-14605, and a plant-specific setpoint study when the specific instrumentation equipment is obtained.
7.2.3-1	7.1-1, 7.1-2	7.1.6	The COL applicant will provide a calculation of setpoints for protective functions consistent with the methodology presented in WCAP-14605, and a plant-specific setpoint study when the specific instrumentation equipment is obtained.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
7.2.3-2	7.2-1	7.2.3	The COL applicant will provide a failure modes and effects analysis (FMEA) for the protection and safety monitoring system.
7.2.6-1	7.2-1	7.2.3	The COL applicant will provide an FMEA for the protection and safety monitoring system.
7.2.7-1	7.1-1, 7.1-2	7.1.6	The COL applicant will provide a calculation of setpoints for protective functions consistent with the methodology presented in WCAP-14605, and a plant-specific setpoint study when the specific instrumentation equipment is obtained.
8.2.3-1	8.2-2	8.2.5, DCD Table 1.8-1, Item 8.3	The operating voltage for the high side of the AP1000 transformer and transmission switchyard, as well as the frequency decay rate, are site specific and, therefore, will be addressed in the COL application. The COL applicant will provide analysis of these matters, including transient stability, voltage operating range, and preservation of the grid connections, in the COL application.
8.2.3.1-1	8.2-2	8.2.2, 8.2.5, DCD Table 1.8-1, Item 8.3	The COL applicant will perform a site-specific grid stability analysis to show that, with no electrical system failures, the grid will remain stable and the reactor coolant pump bus voltage will remain above the voltage necessary to maintain the flow assumed in the Chapter 15 analyses for a minimum of 3 seconds following a turbine trip.
8.2.3.1-2	8.2-2	8.2.2, 8.2.5	The COL applicant will set the protective devices controlling the switchyard breakers in such a way as to preserve the grid connection following a turbine trip.
8.2.3.1-3	8.2-2	8.2.2, 8.2.5, DCD Table 1.8-1, Item 8.3	The COL applicant will perform a site-specific grid stability analysis to show that, with no electrical system failures, the grid will remain stable and the reactor coolant pump bus voltage will remain above the voltage necessary to maintain the flow assumed in the Chapter 15 analyses for a minimum of 3 seconds following a turbine trip.
8.2.3.3-1	8.2-1	8.2.5	The COL applicant will provide the design of the ac power transmission system and its testing and inspection plan.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
8.3.1.2-1	8.3-2	8.3.3	The COL applicant will establish plant procedures for preoperational testing to verify proper operation of the ac power system.
8.3.1.6-1	8.3-1	8.3.3	The COL applicant will provide the design of the site-specific grounding and lightning protection.
8.4.1-1	8.3-2	8.3.3	The COL applicant will establish plant procedures for periodic testing of penetration protective devices.
9.1.6-1	9.1-1	9.1.6	The COL applicant will perform a confirmatory structural dynamic and stress analysis for the new fuel rack.
9.1.6-2	9.1-2	9.1.6	The COL applicant will perform a confirmatory criticality analysis for the new fuel rack.
9.1.6-3	9.1-3	9.1.6	The COL applicant will perform a confirmatory structural dynamic and stress analysis for the spent fuel racks.
9.1.6-4	9.1-4	9.1.6	The COL applicant will perform a confirmatory criticality analysis for the spent fuel racks.
9.1.6-5	9.1-5	9.1.6	The COL applicant will develop a program for inservice inspection of the light load handling system and the overhead heavy load handling system.
9.1.6-6	9.1-6	9.1.6	The COL applicant/holder will ensure that an operating radiation monitor is mounted on any crane or fuel handling machine when it is handling fuel.
9.3.1-1	9.3-1	9.3.7	The COL applicant will address NUREG-0933, Issue 43 (Air Systems) as part of training and procedures.
9.4.1-1	9.4-1	9.4.12	The COL applicant will develop a program to maintain operability of the nuclear island nonradioactive ventilation system and the containment air filtration system.
9.5.1-1(a)	9.5-1	9.5.1.8	The COL applicant will establish a fire protection program at the facility for the protection of structures, systems, and components (SSCs) important to safety. The COL applicant will also establish the procedures, equipment, and personnel needed to implement the program.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
9.5.1-1(b)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant will implement the fire protection program prior to receiving fuel onsite for fuel storage areas, and for the entire unit prior to reactor startup.
9.5.1-1(c)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant will establish administrative controls to maintain the performance of the fire protection system and personnel.
9.5.1-1(d)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant will establish a site fire brigade that is trained and equipped for fire fighting to ensure adequate manual fire fighting capability for all plant areas containing SSCs important to safety.
9.5.1-1(e)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant will establish a quality assurance (QA) program to ensure that the guidelines for the design, procurement, installation, and testing, as well as the administrative controls for fire protection systems are satisfied.
9.5.1-1(f)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant is responsible for the inspection and maintenance of fire doors, access to keys for the fire brigade, and the marking of exit routes.
9.5.1-1(g)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant is responsible for the collection and sampling of water drainage from areas that may contain radioactivity.
9.5.1-1(h)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant is responsible for controlling the use of compressed gases inside structures.
9.5.1-1(i)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant is responsible for the use of portable radio communication by the plant fire brigade.
9.5.1-1(j)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant is responsible for fire protection inside containment during refueling and maintenance.
9.5.1-1(k)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant is responsible for controlling combustible materials in the remote shutdown workstation.
9.5.1-1(l)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant is responsible for fire protection for cooling towers.
9.5.1-1(m)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant is responsible for the proper storage of welding gas cylinders.
9.5.1-1(n)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant is responsible for the proper storage of ion exchange resins.

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9.5.1-1(o)	9.5-3	9.5.1.8, Table 9.5.1-1	The COL applicant is responsible for the proper storage of hazardous chemicals.
9.5.1-2	9.5-2	9.5.1.8	The COL applicant will provide site-specific fire protection analysis information for the yard area, the administration building, and other outlying buildings.
9.5.1-3	9.5-7	9.5.1.8	The COL applicant will establish procedures to address a fire watch for fire areas breached during maintenance.
9.5.1-4	9.5-5	9.5.1.8	The COL applicant will provide an analysis to demonstrate that operator actions that minimize the potential for spurious actuation of the automatic depressurization system (ADS) as a result of a fire can be accomplished within 30 minutes following detection of the fire, as well as the procedure for manual actuation of the fire water containment supply isolation valve to allow fire water to reach the automatic fire system in the containment maintenance floor.
9.5.1-5	9.5-4	9.5.1.8	The COL applicant is responsible for ensuring that any deviations from the applicable National Fire Protection Association (NFPA) codes and standards in addition to those in the DCD, are incorporated into the final safety analysis report (FSAR) with appropriate technical justification.
9.5.1-6	9.5-6	9.5.1.8	The COL applicant will establish the process for identifying deviations between the as-built installation of fire barriers and their tested configurations.
9.5.1-7	9.5-8	9.5.1.8	The COL applicant will provide 2-hour fire resistance test data in accordance with American Society for Testing and Materials (ASTM) Standard E-119 and NFPA 251 for the composite material selected for stairwell fire barriers.
9.5.2-1	9.5-10	9.5.2.5.2	The COL applicant will provide a description of the emergency offsite communication system, including the crisis management radio system.
9.5.2-2	9.5-11	9.5.2.5.3	The COL applicant will provide a description of the security communication system.

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9.5.2-3	9.5-9	9.5.2.5.1	The COL applicant will address interfaces to offsite locations; this will include addressing the recommendations of NRC Bulletin (BL) 80-15 regarding loss of the emergency notification system as a result of a loss of offsite power.
9.5.9-1	9.5-12	9.5.4.7	The COL applicant will evaluate the site-specific need for cathodic protection in accordance with the National Association of Corrosion Engineers (NACE) Standard RP-01-69 for external metal surfaces of metal tanks in contact with the ground.
9.5.9-2	9.5-13	9.5.4.7	The COL applicant will develop site-specific factors in the fuel oil storage tank installation specification to reduce the effects of sun heat input into the stored fuel, as well as the diesel fuel specifications grade and fuel properties consistent with manufacturers' recommendations, and will develop a program of fuel sampling and testing to protect against fuel degradation.
10.3.2-1	10.1-1	10.1.3	The COL holder will develop an erosion-corrosion monitoring program for carbon steel portions of the steam and power conversion systems that contain water or wet steam.
10.5-1	10.1-1	10.1.3	The COL holder will develop an erosion-corrosion monitoring program for carbon steel portions of the steam and power conversion systems that contain water or wet steam.
10.5-2	10.2-1	10.2.6	Pursuant to 10 CFR 50.91 and 50.92, within 3 years of obtaining a COL, the COL holder will submit to the staff a turbine maintenance and inspection program for review. The COL applicant will have plant-specific turbine rotor test data and calculated toughness curves that support the material property assumptions in the turbine rotor analysis.
10.5-3	10.4-1	10.4.12.1	The COL applicant is responsible for the site-specific configuration of the plant circulating water system (including piping design pressure), the cooling tower, or other site-specific heat sink.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
10.5-4	10.4-2	10.4.12.2	The COL applicant is responsible for chemistry control of the condensate, feedwater, and auxiliary steam system.
10.5-5	10.4-3	10.4.12.3	The COL applicant is responsible for the site-specific biocide for use in the potable water system.
11.2-1	11.2-1	11.2.5.1	The COL applicant will provide information on how any mobile or temporary equipment used for storing or processing liquid radwaste conforms to RG 1.143.
11.2-2	11.2-2	11.2.5.2	The COL applicant will provide a site-specific cost benefit analysis to demonstrate compliance with 10 CFR Part 50, Appendix I, regarding population doses due to liquid effluents.
11.2-3	11.2-3	11.2.5.3	The COL applicant will identify the types of liquid waste ion exchange and adsorbent media to be used in the liquid radwaste system (WLS).
11.2-4	11.2-4	11.2.5.4	The COL applicant will identify the planned discharge flow rate for borated wastes and controls for limiting the boric acid concentration in the circulating water system blowdown.
11.3-1	11.3-1	11.3.5.1	The COL applicant will provide a site-specific cost benefit analysis to demonstrate compliance with 10 CFR Part 50, Appendix I, regarding population doses due to gaseous effluents.
11.3-2	11.3-2	11.3.5.2	The COL applicant will identify the types of adsorbent media to be used in the gaseous radwaste system.
11.4-1	11.4-1	11.4.6	The COL applicant will develop a process control program for both wet and dry solid wastes.
11.5-1	11.5-1	11.5.7	The COL applicant will develop an offsite dose calculation manual that contains the methodology and parameters used to calculate offsite doses resulting from gaseous and liquid effluents.



<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
11.5-2	11.5-2	11.5.7	The COL applicant is responsible for ensuring that the process and effluent monitoring and sampling program at its site conforms to the guidelines of American National Standards Institute (ANSI) N13.1-1969, RG 1.21, and RG 4.15.
11.5-3	11.5-3	11.5.7	The COL applicant is responsible for addressing the guidelines of Appendix I to 10 CFR Part 50, as they relate to maximally exposed offsite individual doses and population doses attributable to liquid and gaseous effluents.
12.2.1-1	12.1-1	12.1.3	The COL applicant will submit an operational As Low As Reasonably Achievable (ALARA) policy, which conforms to the requirements of 10 CFR Part 20 and the recommendations of RGs 1.8, 8.8, and 8.10.
12.2.3-1	12.1-1	12.1.3	The COL applicant will submit its intention to follow the guidance contained in the RGs listed in Section 12.2.3 of this report, or state what alternatives will be used.
12.3.1-1	12.2-1	12.2.3	The COL applicant will identify any additional contained radiation sources, used for instrument calibration or radiography, for staff review.
12.4.2-1	12.3-1	12.3.5	The COL applicant will develop administrative controls (lock and access control procedures) in order to limit access to radiological restricted areas, including potentially very-high-radiation areas.
12.4.4-1	12.3-2	12.3.5	The COL applicant will provide the criteria and methods for obtaining representative measurement of radiological conditions, including airborne radioactivity concentrations in work areas.
12.6-1	12.5-1	12.5.5	The COL applicant will provide information related to the organization and procedures that will be used for radiological protection and to ensure that personnel radiation exposures will be maintained ALARA.
13.1-1	13.1-1	13.1.1	The COL applicant will describe its organizational structure.
13.2-1	13.2-1	13.2.1	The COL applicant will develop and implement training programs for plant personnel.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
13.3-1	13.3-1	13.3.1	The COL applicant will develop an emergency plan for the site.
13.3.3.3.5-1	13.3-2	13.3.1	The COL applicant will develop the criteria for activating the emergency operations facility consistent with current operating practice and NUREG-0654/FEMA-REP-1.
13.4-1	13.4-1	13.4.1	The COL applicant is responsible for each operational review.
13.5-1	13.5-1	13.5.1	The COL applicant will develop and describe its plant procedures, including administrative, operating, and maintenance procedures.
13.6.2-1	13.6-1	13.6.13.1	The COL applicant will develop and describe the security plan.
13.6.2-2	13.6-1	13.6.13.1	The COL applicant will provide information on its site-specific physical security, contingency response, and guard training and qualification plans in accordance with 10 CFR 50.34 and 10 CFR Part 73.
13.6.4-1	13.6-1	13.6.13.1	The COL applicant will describe its security organization.
13.6.5.1-1	13.6-3	13.6.13.3	The COL applicant will describe the protected area.
13.6.5.4-1	13.6-3	13.6.13.3	The COL applicant will describe its bullet-resisting barriers and the vehicle barrier system.
13.6.6-1	13.6-1	13.6.13.1	The COL applicant will describe its access control measures.
13.6.7-1	13.6-3	13.6.13.3	The COL applicant will describe its detection aids to identify an unauthorized attempt to gain access into the protected area.
13.6.8-1	13.6-3	13.6.13.3	The COL applicant will describe its design of security lighting.
13.6.9-1	13.6-3	13.6.13.3	The COL applicant will describe its design of the security power supply system.
13.6.10-1	13.6-3	13.6.13.3	The COL applicant will describe its design of the security communication system.
13.6.11-1	13.6-3	13.6.13.3	The COL applicant will describe its testing and maintenance of the plant security system.
13.6.12-1	13.6-1	13.6.13.1 13.6.12	The COL applicant will describe the response of the security system such that the requirements of 10 CFR 73.55(h) are met.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
13.6.13.1-1	13.6-2	13.6.13.2	The COL applicant will verify that the as-built location of vital equipment is inside the vital areas.
13.6.13.2-1	13.6-3	13.6.13.3	The COL applicant will describe the design features of its plant security system in sufficient detail for the staff to review their acceptability in light of the applicable requirements of 10 CFR 73.55.
13.6.13.3-1	13.6-4	13.6.13.4	The COL applicant will describe its specific material control measures as required by 10 CFR 70.51(c) and the guidance provided in ANSI N15.8, "Nuclear Material Control Systems for Nuclear Power Plants," issued in 1974.
14.4-1	14.4-1	14.4.1	The COL applicant will establish the specific staff, staff responsibilities, authorities, and personnel qualifications for performing the AP1000 initial test program.
14.4-2	14.4-2	14.4.2	The COL applicant will develop test specifications and procedures for the preoperational and startup tests for review by the NRC.
14.4-3	14.4-3	14.4.3	The COL applicant is responsible for preparing a startup administration manual which contains the administrative procedures and standards that govern the activities associated with the plant initial test program.
14.4-4	14.4-4	14.4.4	The COL applicant or holder is responsible for review and evaluation of individual test results.
14.4-5	14.4-5	14.4.5	The COL applicant is responsible for testing that may be required of structures and systems that are outside the scope of the design certification.
14.4-6	14.4-6	14.4.6	The COL applicant or holder for the first plant or the first three plants constructed (as specified in Section 14.2.5 of this report) will perform the tests listed in Section 14.2.5 of this report.
15.1.5-1	7.1-1	7.1.6	The COL applicant will confirm the validity of the safety analysis documented in the AP1000 DCD using plant-specific setpoints and instrument uncertainties, including the steam generator mid-deck plate level measurement uncertainties.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
15.3.8-1	15.7-1	15.7.6	The COL applicant will perform a site-specific analysis of the consequences of a potential release of radioactivity to the environment as a result of a liquid tank failure.
16.2-1	16.1-1	16.1	The COL applicant will provide plant specific values or alternative text into the brackets where information should be included in the technical specifications on detailed design information, equipment selection, allowable values, or other information.
17.1-1	17.5-1, 17.5-2	17.5	The COL applicant or holder will submit its design phase QA program, as well as its QA program for procurement, fabrication, installation, construction, and testing of SSCs in the facility.
17.2-1	17.5-4	17.5	The COL applicant or holder will submit its QA program for operations.
17.5-1	17.5-1, 17.5-2	17.5	The COL applicant or holder will submit its design phase QA program, as well as its QA program for procurement, fabrication, installation, construction, and testing of SSCs in the facility.
17.5-2	17.5-3	17.5	The COL applicant or holder will establish probabilistic risk assessment (PRA) importance measures, an expert panel process, and other deterministic methods to determine the site-specific list of SSCs that are within the scope of the reliability assurance program (RAP).
17.5-3	17.5-8	17.5	The COL applicant is responsible for integrating the objectives of the operational reliability assurance process (O-RAP) into the QA program.
17.5-4	17.5-4	17.5	The COL applicant or holder will address its QA program for operations.
17.5-5	17.5-5, 17.5-6	17.5	The COL applicant will perform the tasks necessary to maintain the reliability of risk-significant SSCs. In addition, the COL applicant will describe its maintenance activities that address its SSC performance-related goals during plant operation.
17.5-6	17.5-7	17.5	The COL applicant will submit for NRC review its O-RAP-related QA activities, which occur during the operational phase of plant life.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
18.2.3.1-1	18.2-2	18.2.6	The COL applicant will design the emergency operations facility, including specification of the location, in accordance with the AP1000 human factors engineering (HFE) program.
18.2.4-1	18.2-1	18.2.6	The COL applicant will implement the NRC-approved HFE program.
18.5.3-1	18.5-2	18.5.4	The COL applicant will document the scope and responsibilities of each main control room position, considering the assumptions and results of the task analysis.
18.5.3-2	18.5-1	18.5.4	The COL applicant will utilize the AP1000-specific task analysis in the development of procedures and training programs.
18.5.3-3	18.5-1	18.5.4	The NRC staff reviewed the HFE task analysis at an implementation plan level of detail; that is, finished products for the element were not available for review but the staff evaluated the methodology for conducting a complete task analysis. The COL applicant will use this methodology to conduct a complete HFE task analysis after design certification.
18.6.3-1	18.6-1	18.6.1	The COL applicant will address the staffing levels and qualifications of plant personnel including operations, maintenance, engineering, instrumentation and control technicians, radiological protection technicians, security, and chemists. Specifically, the COL applicant will (1) address the staffing considerations in NUREG -0711, and (2) identify the minimum documentation that is necessary for the staff to complete its review.
18.7.3-1	18.7-1	18.7.1	In the COL application, the COL applicant will address the human reliability analysis (HRA) (with appropriate modifications, if necessary) and assess the impact of the changes on the PRA. In addition, the COL applicant will document the results of the exercises intended to validate the HRA performance assumptions in a report that the COL applicant will submit with the application.
18.7.4-1	18.7-1	18.7.1	The COL applicant is responsible for executing and documenting the HRA/HFE integration implementation plan.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
18.8.1.4-1	18.8-1	18.8.5	The COL applicant is responsible for the executing and documenting of the human system interface design implementation plan.
18.9.3-1	18.9-1	18.9.1	With regard to procedure development, the COL applicant will (1) address the procedure development considerations in NUREG-0711, and (2) identify the minimum documentation that the COL applicant will provide to enable the staff to complete its review.
18.10.3-1	18.10-1	18.8.2.7 18.10.1	With regard to training program development, the COL applicant will (1) address the training program development considerations in NUREG-0711, (2) address relevant concerns identified in this report, and (3) identify the minimum documentation that the COL applicant will provide to enable the staff to complete its review.
18.11.4-1	18.11-1	18.11.1	The COL applicant will develop, execute, and document the implementation plan for the verification and validation of the AP1000 HFE program. In addition, the COL applicant will develop the implementation plan using the programmatic-level description of the AP1000 verification and validation program, presented and referenced by DCD Tier 2, Section 18.11.
18.13-1	18.14-1	18.14	The COL applicant is responsible for human performance monitoring after the plant is placed into operation.
19.1.1.1-1	19.59.10-2	Table 19.59-18, Item 45, and 19.59.10.5	The COL applicant should revise the design-specific PRA, developed as part of the design certification process, to account for site-specific information, as-built (plant-specific) information refinements in the level of design detail, technical specifications (TS), plant-specific emergency operating procedures, and design changes.
19.1.1.1-2	19.59.10-2	Table 19.59-18, Item 45, and 19.59.10.5	As plant experience data accumulates, the COL holder should update failure rates (taken from generic databases) and human errors assumed in the design PRA and incorporate them, as appropriate, into the QA and maintenance rule programs.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
19.1.3.1.4-1	18.7-1	Table 19.59-18, Item 11, and 18.7.1	The COL applicant will use the list of risk-important operator tasks that should be taken into account in the control room design as well as for implementing procedures and developing training programs.
19.1.3.1.4-2	18.7-1	18.7.1	During the main control room validation process, the COL applicant will qualitatively confirm that the “findings” from the integrated system validation do not lead to a risk-significant increase in error potential over that represented in the AP1000 PRA HRA. If this is not confirmed, the COL applicant should model the additional risk-significant errors in an updated HRA.
19.1.5-1	19.59.10-2	Table 19.59-18, Item 45, and 19.59.10.5	The COL applicant will perform a site-specific PRA-based analysis of external flooding, hurricanes, or other external events pertinent to the site to search for site-specific vulnerabilities.
19.1.5.2.1-1	19.59.10-3	Table 19.59-18, Item 14, and 19.59.10.5	The COL applicant will provide an updated internal fires PRA that accounts for design details (e.g., cable routing, door and equipment locations and fire detection and suppression system locations) to search for internal fire vulnerabilities in the detailed design.
19.1.5.3-1	19.59.10-3	19.59.10.5	The COL applicant should provide an updated internal flood PRA that accounts for design details (e.g., pipe routing, door locations, and flood barriers) to search for internal flooding vulnerabilities in the detailed design.
19.1.8.1-1	19.59.10-2	Table 19.59-18, Item 45, and 19.59.10.5	As deemed necessary, during the detailed design phase, the COL applicant will update the PRA, including the fire and flood analyses for both at-power and shutdown operation. Using the final design information and site-specific information, the COL applicant will reevaluate the qualitative screening of external events. The updated PRA will include any identified site-specific susceptibilities, as well as the applicable external events.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
19.1.8.1-2	9.5-8	Table 19.59-18, Item 81, and 9.5.1.8	The COL applicant will take appropriate compensatory measures to minimize risk when a fire door, fire barrier penetration, or flood barrier penetration must be open to allow specific maintenance (e.g., during plant shutdown). Appropriate outage management, administrative controls, procedures, and operator knowledge of plant configuration minimize risk during shutdown. In particular, minimizing risk will call for configuration control of fire/flood barriers to ensure the integrity of fire and flood barriers between areas containing equipment performing redundant safe-shutdown functions.
19.1.8.1-3	9.5-3	Table 19.59-18, Item 15, and 9.5.1.8	The design provides fire detection and suppression capability. The design also provides flooding control features and sump level indication. The COL applicant is expected to take compensatory measures to maintain adequate detection and suppression capability during maintenance activities.
19.1.8.1-4	13.5-1	Table 19.59-18, Item 47, and 13.5.1	The COL applicant will implement the maintenance guidelines as described in the "Shutdown Evaluation Report" (WCAP-14837).
19.1.8.1-5	Table 19.59-18, Item 48	Table 19.59-18, Item 48	The COL applicant will control transient combustibles. This is particularly important during shutdown operation with ongoing maintenance activities.
19.1.8.3-1	13.5-1, 13.2-1	Table 19.59-18, Item 65, and 13.5.1, 13.2.1	The COL applicant is responsible for developing procedures and training to close containment hatches and penetrations following an accident during Modes 5 and 6, before steam is released into the containment.



<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
19.1.8.7-1	13.5-1, 13.2-1	Table 19.59-18, Item 62, and 13.5.1, 13.2.1	The COL applicant will develop procedures and policies to maximize the availability of the non-safety-related wide range pressurizer level indication (cold calibrated) during reactor coolant system (RCS) draining operations during cold shutdown. Specifically, the COL applicant should provide training to the operators on how to use this indication to identify inconsistencies in the safety-related hot-leg level instrumentation to prevent RCS overdraining.
19.1.8.16-1	13.5-1	Table 19.59-18, Item 76 and 13.5.1	The COL applicant will have policies that maximize the availability of normal residual heat removal (RNS) valve V-023 and procedures to open this valve during cold shutdown and refueling operations when the RCS is open and the passive residual heat removal system (PRHR) cannot be used for core cooling.
19.1.8.16-2	13.5-1	Table 19.59-18, Item 67, and 13.5.1	The COL applicant will develop administrative controls to ensure that inadvertent opening of RNS valve V-024 is unlikely since inadvertent opening results in a draindown of the RCS inventory to the in-containment refueling water storage tank (IRWST) and requires gravity injection from the IRWST.
19.1.8.16-3	18.7-1	18.7.1	In designing the control room, the COL applicant will take into account that inadvertent opening of RNS valve V-024 results in a draindown of the RCS inventory to the IRWST and requires gravity injection from the IRWST.
19.1.8.16-4	13.5-1	Table 19.59-18, Item 71, and 13.5.1	The COL applicant will maintain procedures to respond to low hot-leg level alarms.
19.2.3.3.1.3.2-1	5.3-5	Table 19.59-18, Item 26, and 5.3.6.5	The COL applicant will be responsible for completing the design of the reactor vessel insulation system.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
19.2.3.3.7.3-1	19.59.10-5	19.59.10.5	The COL applicant will perform a thermal lag assessment of the as-built equipment used to mitigate severe accidents (hydrogen igniters and containment penetrations) to provide additional assurance that this equipment can perform its severe accident functions during environmental conditions resulting from hydrogen burns associated with severe accidents.
19.2.5-1	19.59.10-4	19.59.10.5	The COL applicant will develop and implement severe accident management guidance.
19.3.2.1-1	13.5-1	Table 19.59-18, Item 47, and 13.5.1	The COL applicant will address plant procedures for normal and abnormal operations, emergency operation, refueling and outage planning, alarm response, maintenance, inspection, test and surveillance, and administrative controls.
19.3.3-1	13.5-1	13.5.1	The COL applicant will develop plant-specific procedures to reduce the potential for loss of RCS boundary and inventory when using freeze seals.
19.3.7-1	13.5-1	13.5.1	The COL applicant will develop an outage planning and control program and will appropriately address the factors that improve low-power and shutdown operations.
19A.2-1	19.59.10-1	Table 19.59-18, Item 24, and 19.59.10.5	COL applicants referencing the AP1000 certified design should compare the HCLPF of the as-built SSCs to those assumed in the AP1000 seismic margin evaluation by performing seismic walkdowns.
19A.2-2	19.59.10-1	Table 19.59-18, Item 24, and 19.59.10.5	The COL applicant referencing the AP1000 design will perform a seismic walkdown to ensure that the as-built plant conforms to the design used as the basis for the seismic margins evaluation and that seismic spatial systems interactions do not exist. The COL applicant will develop the details of the process.
20.1.4-1	USI/GSI	Table 1.9-2, Note f	The COL applicant will address those items in DCD Tier 2, Table 1.9-2, identified with Note f, as being not a design certification issue, but the responsibility of the COL applicant.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
20.2-1	USI/GSI	Table 1.9-2, Issue A-3	The COL applicant will develop a steam generator tube surveillance program, which includes preservice and inservice inspection programs for steam generator tubes.
20.3-1	USI/GSI	Table 1.9-2, Issue 135	The COL applicant will develop a steam generator tube surveillance program which includes access to the tubes for inspection, repair, and plugging in accordance with RG 1.83.
20.3-2	USI/GSI	Table 1.9-2, Issue 142	For Issue 142, the COL applicant will implement an annual program to inspect and test all electronic isolators between Class 1E and non-Class 1E systems, and to identify the specific isolation devices used in the design.
20.4-1	USI/GSI	Table 1.9-2 Issue I.A.1.4	The COL applicant will address shift staffing and working hours of licensed operators in Issue I.A.1.4 as part of the licensing process.
20.4-2	USI/GSI	Table 1.9-2, Issue I.A.2.6(1)	The COL applicant will address qualification and training of plant personnel in Issue I.A.2.6(1) as part of the licensing process.
20.4-3	USI/GSI	Table 1.9-2, Issue II.J.3.1	For Issue II.J.3.1, the COL applicant will address the plant organization and construction, as well as any modifications to the AP1000 certified design.
20.4-4	USI/GSI	Table 1.9-2, Issue II.J.4.1	For Issue II.J.4.1, the COL applicant will address plant procedures for adequate reporting in accordance with 10 CFR Part 21 and 10 CFR 50.55(e).
20.4-5	USI/GSI	Table 1.9-2, Issue II.K.1(26)	For Issue II.K.1(26), the COL applicant will address the scope of licensing examinations, as well as new training requirements for operators.
20.7.1-1	WCAP-15800	1.9.5.5	The COL applicant will review and address the bulletins and generic letters identified in WCAP-15800 as procurement, procedural, or maintenance/surveillance issues, or those identified as "Part of COL."
20.7.4-1	WCAP-15800	1.9.5.5	For Bulletin 80-15, the COL applicant will review the recommendations related to loss of the emergency notification system as a result of a loss of offsite power.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
20.7.4-2	WCAP-15800	1.9.5.5	For GL 96-04, the COL applicant is responsible for all COL information items described in DCD Tier 2, Section 9.1.6, as they relate to fuel storage and handling.
20.7.4-3	WCAP-15800	1.9.5.5	The COL applicant will perform future site-specific safety analyses, using the guidelines specified in GL 83-11, Supplement 1.
20.7.4-4	WCAP-15800	1.9.5.5	The COL applicant will develop plant-specific emergency operating procedures that address the boron dilution events in accordance with GL 85-05.
20.7.4-5	WCAP-15800	1.9.5.5	The COL applicant will develop a boric acid corrosion program to provide reasonable assurance of compliance with the applicable regulatory requirements, as discussed in GL 88-05.
20.7.4-6	WCAP-15800	1.9.5.5	The COL applicant will address the guidance in GL 91-14, as it relates to the emergency offsite communication system, including the crisis management radio system.
20.7.4-7	WCAP-15800	1.9.5.5	The COL applicant will verify plant-specific belt line material properties, consistent with the guidance in GL 92-01. This verification will include a pressurized thermal shock evaluation based on as-procured reactor vessel material data and the projected neutron fluences for the plant design objective of 60-years, which the COL applicant will submit to the NRC for review. <sup>2</sup>
20.7.4-8	WCAP-15800	1.9.5.5	For GL 93-01, the COL applicant will address the recommendations of BL 80-15, as they relate to emergency planning, including post-72-hour actions and communications interfaces. In so doing, the COL applicant will address interfaces to required offsite locations, as well as the emergency response facility communication system, including the crisis management radio system.

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<sup>2</sup>Westinghouse letter dated August 11, 2004 provided a DCD markup to specify "...for the plant design objective of 60-years."

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
20.7.4-9	WCAP-15800	1.9.5.5	The COL applicant will perform preoperational and startup testing of the rod control system as described in GL 93-04. The COL applicant will perform additional testing during the operational phase of the plant.
20.7.4-10	WCAP-15800	1.9.5.5	The COL applicant will compare electrical schematic drawings and logic diagrams against plant surveillance test procedures to ensure that the surveillance procedures fulfill the requirements of the Technical Specifications. This will assist the COL applicant in testing safety-related logic circuits in accordance with GL 96-01.
20.7.4-11	WCAP-15800	1.9.5.5	The COL applicant will perform a confirmatory criticality analysis for the spent fuel pool storage racks. This analysis should address the degradation of Boraflex in the spent fuel pool storage racks as identified in GL 96-04, and should assess the Boraflex capability to maintain a 5-percent subcriticality margin.
20.7.4-12	WCAP-15800	1.9.5.5	For GL 97-06, the COL applicant will develop a steam generator tube surveillance program to address steam generator tube integrity, and will develop a program for periodic monitoring of degradation of steam generator internals.
22.5.9-1	16.3-1	16.3.2	The COL applicant will develop a procedure to control the operability of investment protection SSCs.

The following table shows a DCD COL Information Item which is not called out in this report.

<b>FSER Item</b>	<b>DCD Table 1.8-2</b>	<b>DCD Section</b>	<b>Description</b>
	1.1-1	1.1.7	COL applicants referencing the AP1000 certified design will provide construction and startup schedule information.