

1.8 Interfaces for Standard Design

This section identifies the AP600 standard plant scope, interfaces related to design certification between the AP600 plant design and the Combined License applicant, and the site-specific items to be included in an application for a Combined License. It is submitted to satisfy the requirements of 10 CFR 52.47(a)(1)(vii).

The AP600 is a plant design incorporating six buildings, the equipment in them and the associated yard structures and tankage. This includes the entire nuclear island (consisting of the containment/shield building and the auxiliary building), the annex building and associated equipment, the diesel/generator building and associated equipment, the turbine generator building, the turbine/generator equipment and the radwaste facilities. The physical boundary of the portion of the AP600 design included in this application for Design Certification is shown on the site plan, Figure 1.2-2. It includes arrangement and placement of structures within the indicated boundary including the vehicle barriers necessary for security, but not the boundary fence. As a result, no interfaces need to be identified between or among the portions of the plant within the boundary. They are addressed in their appropriate section of this DCD. There are no safety-related interfaces to site-specific elements of the plant outside the scope of this certification application. Unless otherwise noted, the following site-specific elements are outside the scope of the AP600 standard plant:

- (1) The portions of the circulating water system and its heat sink outside the AP600 buildings, as well as the specific design details of the main condenser. A conceptual design is presented, delineated by Double Brackets ([[]]), in subsection 10.4.5, based upon a cooling tower approach.
- (2) The offsite power transmission system outside the low voltage terminals of the main and reserve transformers. Location and design of the main switchyard area and the equipment located therein, as well as design details such as voltage level for the main step-up transformers. A conceptual design of this system is included, delineated by Double Brackets ([[]]), in Section 8.2 for reference.
- (3) Raw water source and treatment outside the turbine building. An interface specification of amount and water chemistry limits is provided.
- (4) Sanitary and other drain systems outside the buildings identified above. This DCD is based upon the COL applicant providing adequate overall site drain collection and processing systems
- (5) Communications systems and equipment outside the buildings identified above. This DCD is based upon the COL applicant providing adequate external communications.
- (6) Location and design of administrative and training structures.
- (7) Landscaping features.

A more detailed listing of the systems included in the standard AP600 plant is included in Section 3.2.

There are a number of information interfaces between the AP600 design and other portions of a completely licensed facility which must be addressed by parties that reference the AP600 design. These interfaces are identified in Table 1.8-1 in the order they are presented in this DCD.

The safety-related interface requirements in Table 1.8-1 have been selected based on a review of interfaces between the AP600 plant design and other Combined License applicant or site-specific items. Satisfying the referenced information for each of the interfaces listed will provide confidence that systems, structures and components within the AP600 can perform their safety functions. The specific details of the interface parameters are identified in the DCD sections identified in Table 1.8-1. The interface specifications have been selected to suit a wide range of potential sites. Values identified by a Combined License applicant to be outside the range of acceptable parameters may be demonstrated to be acceptable. Such cases will be documented in the appropriate sections of the specific Combined License application.

The classification of interface types is based on the sources of interfaces listed in Appendix A of Regulatory Guide 1.70. The first four types below are directly related to the four sources of interfaces. They have been redefined slightly to reflect the fact that AP600 is an essentially complete plant design. The classification of interface types is as follows:

- **Requirement of AP600** – Requirements for operation of the AP600 design that must be satisfied by the matching portion of the site, utility or Combined License applicant administration.
- **AP600 Interface** – Interface condition used for AP600 design which must be more precisely defined during the coordination effort between the AP600 design team and the Combined License applicant.
- **Site Interface** – Site-related interface data upon which the AP600 design is based.
- **Pertinent Criteria** – Criteria pertinent to the AP600 design that may be useful for the design and staff review of the matching systems, components and structures.
- **Not an Interface** – Interface items identified in Appendix A of Regulatory Guide 1.70 which are wholly within the boundaries of the AP600 plant. As a result, the "Matching Interface Item" in Table 1.8-1 is identified as N/A (not applicable).
- **Non-Nuclear Safety (NNS)** – Interface items identified in Appendix A of Regulatory Guide 1.70 which are non-nuclear safety-related because of the design features of AP600.

Note that all plant interfaces listed in Appendix A of Regulatory Guide 1.70 have been listed in Table 1.8-1. As noted above and in Table 1.8-1, a number of these interfaces do not apply to the AP600 plant as described in this DCD. In some cases, the interface listed in Appendix A of Regulatory Guide 1.70 is totally within the AP600 plant and therefore not an interface. Other interfaces from Appendix A of Regulatory Guide 1.70 are identified as non-nuclear safety. The classification of systems, structures and components is described in Section 3.2. Only safety-related interfaces are detailed in Table 1-8.1. An example of an "NNS" (non-nuclear safety) type of interface is any of those associated with site service water. AP600 does not rely on site service water as a safety grade ultimate heat sink. Neither the cooling tower nor the diesel-generator building are safety-related in AP600. As such, there are no safety-related interfaces for these features.

Interfaces are listed in the order discussed in the DCD. General interfaces are listed as they relate to a particular section of this DCD. No specific system-by-system interface listings are required due to the complete nature of the AP600 plant design. All safety-related systems are contained within the AP600 plant design. The listing includes identification of the interface classification and the matching interface item to be specified by the Combined License applicant. In addition, the section of this DCD which addresses the listed interface is identified. To satisfy the requirements of 10 CFR 52.47(a)(1)(ix), representative conceptual designs are included in this DCD for those portions of the plant for which Westinghouse does not seek certification to aid the NRC staff in its review of the DCD and the probabilistic risk assessment to be submitted in support of the application, and to permit assessment of the adequacy of interface requirements.

Combined License Information

Combined License applicants referencing the AP600 certified design will be required to provide site-specific information, verification that interface criteria are satisfied, information related to operating procedures, and other information required to support the AP600 Design Certification. The description of information to be provided by the Combined License applicant is found in the DCD sections applicable to the specific information. Table 1.8-2 is a listing of the Combined License information items and the DCD location of the description of the information.

Table 1.8-1 (Sheet 1 of 7)

**SUMMARY OF AP600 PLANT INTERFACES
WITH REMAINDER OF PLANT**

Item No.	Interface	Interface Type	Matching Interface Item	Section or Sub-section
1.1	Post accident Radio-Iodine sampling capability per NUREG 0737	Requirement of AP600	Combined License applicant program	1.9.3
2.1	Envelope of AP600 plant site related parameters	Site Interface	Site specific parameters	2.0
2.2	External missiles from man-made hazards and accidents	Site Interface	Site specific parameters	2.2
2.3	Maximum loads from man-made hazards and accidents	Site Interface	Site specific parameters	2.2
2.4	Limiting meteorological parameters (χ/Q) for design basis accidents and for routine releases and other extreme meteorological conditions for the design of systems and components exposed to the environment.	Site Interface	Site specific parameters	2.3
2.5	Tornado and operating basis wind loadings	Site Interface	Site specific parameters	2.3
2.6	External missiles generated by natural phenomena	Site Interface	Site specific parameters	2.3
2.7	Snow, ice and rain loads	Site Interface	Site specific parameters	2.3
2.8	Ambient air temperatures	Site Interface	Site specific parameters	2.3
2.9	Onsite meteorological measurement program	Requirement of AP600	Combined License applicant program	2.3.3
2.10	Flood and ground water elevations	Site Interface	Site specific parameters	2.4
2.11	Hydrostatic loads on systems, components and structures	Site Interface	Site specific parameters	2.4
2.12	Seismic parameters peak ground acceleration response spectra shear wave velocity	Site Interface	Site specific parameters	2.5 2.5 2.5

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**SUMMARY OF AP600 PLANT INTERFACES
WITH REMAINDER OF PLANT**

Item No.	Interface	Interface Type	Matching Interface Item	Section or Sub-section
2.13	Required bearing capacity of foundation materials	Site Interface	Site specific parameters	2.5
3.1	Deleted			
3.2	Operating procedures to minimize water hammer	Requirement of AP600	Combined License applicant procedure	3.6, 10
3.3	Site seismic sensor location and "trigger" value	Requirement of AP600	Onsite implementation	3.7.4
3.4	Depth of overburden	Requirement of AP600	Onsite implementation	3.8
3.5	Depth of embedment	Requirement of AP600	Onsite implementation	3.8
3.6	Specific depth of waterproofing	Requirement of AP600	Onsite implementation	3.8.5
3.7	Foundation Settlement Monitoring	Requirement of AP600	Combined License applicant coordination	3.8.5
3.8	Lateral earth pressure loads	Not an Interface	N/A	3
3.9	Preoperational piping vibration test parameters	Not an Interface	N/A	3
3.10	Inservice Inspection requirements and locations	Requirement of AP600	Combined License applicant program	3.9.6 5.2.4 6.6
3.11	Maintenance of preservice and reference test data for inservice testing of pumps and valves	Requirement of AP600	Combined License applicant program	3.9.6 5.2.4 6.6
3.12	Earthquake response procedures	Requirement of AP600	Combined License applicant program	3.7.4
5.1	Steam Generator Tube Surveillance Requirements	Requirement of AP600	Combined License applicant program	5.4.2

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**SUMMARY OF AP600 PLANT INTERFACES
WITH REMAINDER OF PLANT**

Item No.	Interface	Interface Type	Matching Interface Item	Section or Sub-section
6.1	Inservice Inspection requirements for the containment	Requirement of AP600	Combined License applicant program	6.2.1
6.2	Off site environmental conditions assumed for Main Control Room and technical support center habitability design	AP600 Interface	Site specific parameter	6.4
7.1	Listing of all design criteria applied to the design of the I&C systems	Not an Interface	N/A	7
7.2	Power required for site service water instrumentation	NNS and Not an Interface	N/A	7
7.3	Other provisions for site service water instrumentation	NNS and Not an Interface	N/A	7
8.1	Listing of design criteria applied to the design of the offsite power system	NNS	Combined License applicant coordination	8
8.2	Offsite ac requirements Steady-state load Inrush kVA for motors Nominal voltage Allowable voltage regulation Nominal frequency Allowable frequency fluctuation Maximum frequency decay rate Limiting under frequency value for RCP	NNS	Combined License applicant coordination	8

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**SUMMARY OF AP600 PLANT INTERFACES
WITH REMAINDER OF PLANT**

Item No.	Interface	Interface Type	Matching Interface Item	Section or Sub-section
8.3	Offsite transmission system analysis: Loss of AP600 or largest unit Voltage operating range Transient stability must be maintained and the RCP bus voltage must remain above the voltage required to maintain the flow assumed in Chapter 15 analyses for a minimum of three (3) seconds following a turbine trip. The protective devices controlling the switchyard breakers are set with consideration given to preserving the plant grid connection following a turbine trip.	NNS	Combined License applicant analysis	8.2
8.4	Listing of design criteria applied to the design of onsite ac power systems	NNS and Not an Interface	N/A	8
8.5	Onsite ac requirements	NNS and Not an Interface	N/A	8
8.6	Diesel generator room coordination	NNS and Not an Interface	N/A	8
8.7	Listing of design criteria applied to the design of onsite dc power systems	Not an Interface	N/A	8
8.8	Provisions of dc power systems to accommodate the site service water system	NNS and Not an Interface	N/A	8
9.1	Listing of design criteria applied to the design of portions of the site service water within AP600	NNS and Not an Interface	N/A	9
9.2	Integrated heat load to site service water system	NNS and Not an Interface	N/A	9
9.3	Plant cooling water systems parameters	NNS and Not an Interface	N/A	9

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**SUMMARY OF AP600 PLANT INTERFACES
WITH REMAINDER OF PLANT**

Item No.	Interface	Interface Type	Matching Interface Item	Section or Sub-section
9.4	Plant makeup water quality limits	NNS	Site specific parameter	9
9.5	Requirements for location and arrangement of raw and sanitary water systems	NNS	Site implementation	9
9.6	Ventilation requirements for diesel-generator room	NNS and Not an Interface	N/A	9
9.7	Requirements to satisfy fire protection program	AP600 Interface	Combined License applicant program	9.5.1
11.1	Expected release rates of radioactive material from the Liquid Waste System including: Location of release points Effluent temperature Effluent flow rate Size and shape of flow orifices	Site Interface	Site specific parameters	11.2
11.2	Expected release rates of radioactive materials from the Gaseous Waste System including: Location of release points Height above grade Height relative to adjacent buildings Effluent temperature Effluent flow rate Effluent velocity Size and shape of flow orifices	Site Interface	Site specific parameters	11.3

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**SUMMARY OF AP600 PLANT INTERFACES
WITH REMAINDER OF PLANT**

Item No.	Interface	Interface Type	Matching Interface Item	Section or Sub-section
11.3	Expected release rates of radioactive material from the Solid Waste System including: Location of release points Material types Material qualities Size and shape of material containers	Site Interface	Site specific parameters	11.4
11.4	Requirements for offsite sampling and monitoring of effluent concentrations	AP600 Interface	Combined License applicant program	11.5
12.1	Identification of miscellaneous radioactive sources	AP600 Interface	Combined License applicant program	12.2
13.1	Features that may affect plans for coping with emergencies as specified in 10 CFR 50, Appendix O	AP600 Interface	Combined License applicant program	13.3
13.2	Physical Security Plan consistent with AP600 plant	AP600 Interface	Combined License applicant program	13.6
14.1	Identification of special features to be considered in development of the initial test program	Requirement of AP600	Combined License applicant program	14
14.2	Maintenance of preoperational test data and inservice inspection baseline data	AP600 Interface	Combined License applicant program	14
16.1	Administrative requirements associated with reliability information maintenance	AP600 Interface	Combined License applicant program	16
16.2	Administrative requirements associated with the Technical Specifications	Requirement of AP600	Combined License applicant implementation	16
16.3	Site and operator related information associated with the Reliability Assurance Program (D-RAP)	Requirement of AP600	Combined License applicant program	16.2
18.1	Operating staff consistent with Human Factors evaluations	AP600 Interface	Combined License applicant program	18.6
18.2	Operator training consistent with Human Factors evaluations	AP600 Interface	Combined License applicant program	18.8 18.10

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**SUMMARY OF AP600 PLANT INTERFACES
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Item No.	Interface	Interface Type	Matching Interface Item	Section or Sub-section
18.3	Operating Procedures consistent with Human Factors evaluations	AP600 Interface	Combined License applicant program	18.8 18.10
18.4	Final coordination and integration of human system interface areas within a specific AP600 consistent with Human Factors evaluations	AP600 Interface	Combined License applicant program	18.2 18.8
18.5	Final coordination and integration of Combined License applicant facilities with those of a specific AP600 consistent with Human Factors evaluations	AP600 Interface	Combined License applicant program	18.2 18.8

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**SUMMARY OF AP600 STANDARD PLANT
COMBINED LICENSE INFORMATION ITEMS**

Item No.	Subject	Subsection
1.1-1	Construction and Startup Schedule	1.1.7
2.1-1	Geography and Demography	2.1.1
2.2-1	Identification of Site-specific Potential Hazards	2.2.1
2.3-1	Regional Climatology	2.3.6.1
2.3-2	Local Meteorology	2.3.6.2
2.3-3	Onsite Meteorological Measurements Program	2.3.6.3
2.3-4	Short-Term Diffusion Estimates	2.3.6.4
2.3-5	Long-Term Diffusion Estimates	2.3.6.5
2.4-1	Hydrological Description	2.4.1.1
2.4-2	Floods	2.4.1.2
2.4-3	Cooling Water Supply	2.4.1.3
2.4-4	Groundwater	2.4.1.4
2.4-5	Accidental Release of Liquid Effluents into Ground and Surface Water	2.4.1.5
2.4-6	Flood Protection Emergency Operation Procedures	2.4.1.6
2.5-1	Basic Geologic and Seismic Information	2.5.1
2.5-2	Site Seismic and Tectonic Characteristics Information	2.5.2.1
2.5-3	Surface Faulting	2.5.3
2.5-4	Site and Structures	2.5.4.6.1
2.5-5	Properties of Underlying Materials	2.5.4.6.2
2.5-6	Excavation and Backfill	2.5.4.6.3
2.5-7	Ground Water Conditions	2.5.4.6.4
2.5-8	Response of Soil and Rock to Dynamic Loading	2.5.4.6.5
2.5-9	Liquefaction Potential	2.5.4.6.6
2.5-10	Bearing Capacity	2.5.4.6.7
2.5-11	Static and Dynamic Stability of Facilities	2.5.4.6.10

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**SUMMARY OF AP600 STANDARD PLANT
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Item No.	Subject	Subsection
2.5-12	Subsurface Instrumentation	2.5.4.6.11
2.5-13	Stability of Slopes	2.5.5
2.5-14	Embankments and Dams	2.5.6
3.3-1	Wind and Tornado Site Interface Criteria	3.3.3
3.4-1	Site-Specific Flooding Hazards Protective Measures	3.4.3
3.5-1	External Missile Protection Requirements	3.5.4
3.6-1	Pipe Break Hazards Analysis	3.6.4.1
3.6-2	Leak-Before-Break Evaluation	3.6.4.2
3.7-1	Seismic Analysis of Dams	3.7.5.1
3.7-2	Post-Earthquake Procedures	3.7.5.2
3.7-3	Seismic Interaction Review	3.7.5.3
3.7-4	Reconciliation of Seismic Analyses of Nuclear Island Structures	3.7.5.4
3.8-1	Containment Vessel Design Adjacent to Large Penetrations	3.8.6.1
3.8-2	Passive Containment Cooling System Water Storage Tank Examination	3.8.6.2
3.8-3	As-Built Summary Report	3.8.6.3
3.9-1	Reactor Internal Vibration Response	3.9.8.1
3.9-2	Design Specification and Reports	3.9.8.2
3.9-3	Snubber Operability Testing	3.9.8.3
3.9-4	Valve Inservice Testing	3.9.8.4
3.9-5	Surge Line Thermal Monitoring	3.9.8.5
3.9-6	Piping Benchmark Program	3.9.8.6
3.10-1	Experience-Based Qualification	3.10.6
3.11-1	Equipment Qualification File	3.11.5
4.2-1	Changes to Reference Reactor Design	4.2.5
4.3-1	Changes to Reference Reactor Design	4.3.4
4.3-2	Fixed Incore Detectors	4.3.4
4.4-1	Changes to Reference Reactor Design	4.4.7

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**SUMMARY OF AP600 STANDARD PLANT
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Item No.	Subject	Subsection
5.2-1	ASME Code and Addenda	5.2.6.1
5.2-2	Plant Specific Inspection Program	5.2.6.2
5.3-1	Reactor Vessel Pressure - Temperature Limit Curves	5.3.6.1
5.3-2	Reactor Vessel Materials Surveillance Program	5.3.6.2
5.3-3	Reactor Vessel Materials Properties Verification	5.3.6.3
5.3-4	Reactor Vessel Insulation	5.3.6.4
5.4-1	Steam Generator Tube Integrity	5.4.15
6.1-1	Procedure Review for Austenitic Stainless Steels	6.1.3.1
6.1-2	Coating Program	6.1.3.2
6.2-1	Containment Leak Rate Testing	6.2.6
6.3-1	Containment Cleanliness Program	6.3.8.1
6.4-2	Local Toxic Gas Services and Monitoring	6.4.7
6.4-3	Procedures for Training for Control Room Habitability	6.4.7
6.6-1	Inspection Programs	6.6.9.1
6.6-2	Construction Activities	6.6.9.2
7.1-1	Setpoint Calculations for Protective Functions	7.1.6
8.2-1	Offsite Electrical Power	8.2.5
8.2-2	Technical Interfaces	8.2.5
8.3-1	Onsite Electrical Power	8.3.3
8.3-2	Onsite Electrical Power Plant Procedures	8.3.3
9.1-1	New Fuel Rack	9.1.6
9.1-2	Criticality Analysis for New Fuel Rack	9.1.6
9.1-3	Spent Fuel Racks	9.1.6
9.1-4	Criticality Analysis for Spent Fuel Racks	9.1.6
9.1-5	Inservice Inspection Program of Cranes	9.1.6
9.1-6	Radiation Monitor	9.1.6
9.3-1	Air Systems (NUREG-0933 Issue 43)	9.3.7
9.4-1	Ventilation Systems Operations	9.4.12

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**SUMMARY OF AP600 STANDARD PLANT
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Item No.	Subject	Subsection
9.5-1	Qualification Requirements for Fire Protection Program	9.5.1.8
9.5-2	Fire Protection Analysis Information	9.5.1.8
9.5-3	Regulatory Conformance	9.5.1.8
9.5-4	NFPA Exceptions	9.5.1.8
9.5-5	Operator Actions Minimizing Spurious ADS Actuation	9.5.1.8
9.5-6	Offsite Interfaces	9.5.2.5.1
9.5-7	Emergency Response Facility Communications	9.5.2.5.2
9.5-8	Security Communications	9.5.2.5.3
9.5-9	Cathodic Protection	9.5.4.7
9.5-10	Fuel Degradation Protection	9.5.4.7
10.1-1	Erosion-Corrosion Monitoring	10.1.3
10.2-1	Turbine Maintenance and Inspection	10.2.6
10.4-1	Circulating Water Supply	10.4.12.1
10.4-2	Condensate, Feedwater and Auxiliary Steam System Chemistry Control	10.4.12.2
10.4-3	Potable Water	10.4.12.3
11.2-1	Liquid Radwaste Processing by Mobile Equipment	11.2.5.1
11.2-2	Cost Benefit Analysis of Population Doses	11.2.5.2
11.2-3	Identification of Ion Exchange and Adsorbent Media	11.2.5.3
11.2-4	Dilution and Control of Boric Acid Discharge	11.2.5.4
11.3-1	Cost Benefit Analysis of Population Doses	11.3.5.1
11.3-2	Identification of Adsorbent Media	11.3.5.2
11.4-1	Solid Waste Management System Process Control Program	11.4.6
11.5-1	Plant Offsite Dose Calculation Manual (ODCM)	11.5.7
11.5-2	Effluent Monitoring and Sampling	11.5.7
11.5-3	10 CFR 50, Appendix I	11.5.7
12.1-1	ALARA and Operational Policies	12.1.3
12.2-1	Additional Contained Radiation Sources	12.2.3
12.3-1	Administrative Controls for Radiological Protection	12.3.5

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**SUMMARY OF AP600 STANDARD PLANT
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Item No.	Subject	Subsection
12.3-2	Criteria and Methods for Radiological Protection	12.3.5
12.5-1	Radiological Protection Organization and Procedures	12.5.5
13.1-1	Organizational Structure of Combined License Applicant	13.1.1
13.2-1	Training Program for Plant Personnel	13.2.1
13.3-1	Emergency Planning and Communications	13.3.1
13.3-2	Activation of Emergency Operations Facility	13.3.1
13.3-3	Capability to Obtain and Analyze Samples	13.3.1
13.4-1	Operational Review	13.4.1
13.5-1	Plant Procedures	13.5.1
13.6-1	Security Plans, Organization and Testing	13.6.13.1
13.6-2	Vital Equipment Verification	13.6.13.2
13.6-3	Site-Specific Security System	13.6.13.3
14.4-1	Organization and Staffing	14.4.1
14.4-2	Test Specifics and Procedures	14.4.2
14.4-3	Conduct of Test Program	14.4.3
14.4-4	Review and Evaluation of Test Results	14.4.4
14.4-5	Testing Interface Requirements	14.4.5
14.4-6	First-Plant-Only and Three-Plant-Only Tests	14.4.6
16.1-1	Technical Specification Preliminary Information	16.1
16.3-1	Procedure to Control Operability of Investment Protection Systems, Structures and Components	16.3.2
17.5-1	Quality Assurance Design Phase	17.5
17.5-2	Quality Assurance for Procurement, Fabrication, Installation, Construction and Testing	17.5
17.5-3	Design Reliability Assurance Program/Site Specific List of Systems, Structures and Components	17.5
17.5-4	Quality Assurance Program for Operations	17.5
17.5-5	Maintaining Reliability of Risk-Significant SSCs	17.5
17.5-6	Maintenance Activities Relevant to Maintenance Rule	17.5
17.5-7	Operational Reliability Assurance Activities	17.5
17.5-8	Operational Reliability Assurance Program Integration with Quality Assurance Program	17.5

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**SUMMARY OF AP600 STANDARD PLANT
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Item No.	Subject	Subsection
18.2-1	Execution of the NRC Approved Human Factors Engineering Program	18.2.6
18.2-2	Design of the Emergency Operations Facility	18.2.6
18.3-1	Operating Experience Review	18.3.1
18.5-1	Task Analysis	18.5.4
18.5-2	Main Control Room	18.5.4
18.6-1	Plant Staffing	18.6.1
18.7-1	Execution and Documentation of the Human Reliability Analysis/Human Factors Engineering Integration	18.7.1
18.8-1	Execution and Documentation of the Human System Interface Design Implementation Plan	18.8.5
18.9-1	Procedure Development	18.9.1
18.10-1	Training Program Development	18.10.1
18.11-1	Verification and Validation of AP600 Human Factors Engineering Program	18.11.1
19.59.10-1	As-built SSC HCLPF comparison to seismic margin evaluation	19.59.10.5
19.59.10-2	Baseline PRA	19.59.10.5
19.59.10-3	Internal fire and internal flood analyses	19.59.10.5
19.59.10-4	Develop and implement severe accident management guidance	19.59.10.5
19.59.10-5	Equipment survivability	19.59.10.5
	Bulletins and Generic Letters (WCAP-13559)	1.9.5.5
	Unresolved Safety Issues and Generic Safety Issues	Table 1.9-2