


United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of: FLORIDA POWER & LIGHT CO. (Turkey Point Nuclear Generating Units 6 and 7)	
Commission Mandatory Hearing	
	Docket #: 05200040 05200041 Exhibit #: NRC-003-MA-CM01 Admitted: 12/12/2017 Rejected: Other: Identified: 12/12/2017 Withdrawn: Stricken:

NRC-003

COMBINED LICENSE

TURKEY POINT UNIT 7

FLORIDA POWER & LIGHT COMPANY

Docket No. 52-041

License No. NPF-XXX

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for a combined license (COL) for Turkey Point Unit 7 filed by Florida Power & Light Company (FPL), which incorporates by reference Appendix D to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 52, complies with the applicable standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission regulations set forth in 10 CFR Chapter I, and all required notifications to other agencies or bodies have been duly made;
 - B. There is reasonable assurance that the facility will be constructed and will operate in conformity with the license, the provisions of the Act, and the Commission regulations set forth in 10 CFR Chapter I, except as exempted from compliance in Section 2.F below;
 - C. There is reasonable assurance (i) that the activities authorized by this COL can be conducted without endangering the health and safety of the public and (ii) that such activities will be conducted in compliance with the Commission regulations set forth in 10 CFR Chapter I, except as exempted from compliance in Section 2.F below;
 - D. FPL is technically qualified to engage in the activities authorized by this license in accordance with the Commission regulations set forth in 10 CFR Chapter I. FPL is financially qualified to engage in the activities authorized by this COL in accordance with the Commission regulations set forth in 10 CFR Chapter I;
 - E. FPL has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements;"
 - F. The issuance of this license will not be inimical to the common defense and security or to the health and safety of the public;
 - G. After weighing the environmental, economic, technical, and other benefits of the facility against environmental and other costs and considering reasonable available alternatives, the issuance of this license subject to the conditions for protection of the environment set forth herein is in accordance with Subpart A of 10 CFR Part 51 and all applicable requirements have been satisfied; and
 - H. The receipt, possession, and use of source, byproduct, and special nuclear material as authorized by this license will be in accordance with the applicable regulations in 10 CFR Parts 30, 40, and 70.

2. On the basis of the foregoing findings regarding this facility, COL No. NPF-XXX is hereby issued to FPL (the licensee), to read as follows:
- A. This license applies to Turkey Point Unit 7, a light-water nuclear reactor and associated equipment (the facility), owned by FPL. The facility would be located in unincorporated southeast Miami-Dade County, Florida (FL), approximately 25 miles south of Miami, FL, on an approximately 218-acre area south of the existing Turkey Point Units 3 and 4, and is described in FPL's final safety analysis report (FSAR), as supplemented and amended.
- B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
- (1) FPL, pursuant to Sections 103 and 185b. of the Act and 10 CFR Part 52, to construct, possess, use, and operate the facility at the designated location in accordance with the procedures and limitations set forth in this license;
- (2) (a) FPL, pursuant to the Act and 10 CFR Part 70, to receive and possess at any time, special nuclear material as reactor fuel, in accordance with the limitations for storage and in amounts necessary for reactor operation, described in the FSAR, as supplemented and amended;
- (b) FPL, pursuant to the Act and 10 CFR Part 70, to use special nuclear material as reactor fuel, after a Commission finding under 10 CFR 52.103(g) has been made, in accordance with the limitations for storage and in amounts necessary for reactor operation, described in the FSAR, as supplemented and amended;
- (3) (a) FPL, pursuant to the Act and 10 CFR Parts 30 and 70, to receive, possess, and use, at any time before a Commission finding under 10 CFR 52.103(g), such byproduct and special nuclear material (but not uranium hexafluoride) as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts not exceeding those specified in 10 CFR 30.35(d) and 10 CFR 70.25(d) for establishing decommissioning financial assurance, and not exceeding those specified in 10 CFR 30.72 and 10 CFR 70.22(i)(1);
- (b) FPL, pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess, and use, after a Commission finding under 10 CFR 52.103(g), any byproduct, source, and special nuclear material (but not uranium hexafluoride) as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts, as necessary;
- (4) (a) FPL, pursuant to the Act and 10 CFR Parts 30 and 70, to receive, possess, and use, before a Commission finding under 10 CFR 52.103(g), in amounts not exceeding those specified in 10 CFR 30.72, any byproduct or special nuclear material (but not uranium hexafluoride) that

is (1) in unsealed form; (2) on foils or plated surfaces, or (3) sealed in glass, for sample analysis or instrument calibration or other activity associated with radioactive apparatus or components, in amounts not exceeding those specified in 10 CFR 30.35(d) and 10 CFR 70.25(d) for establishing decommissioning financial assurance, and not exceeding those specified in 10 CFR 30.72 and 10 CFR 70.22(i)(1);

(b) FPL, pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess, and use, after a Commission finding under 10 CFR 52.103(g), in amounts as necessary, any byproduct, source, or special nuclear material (but not uranium hexafluoride) without restriction as to chemical or physical form, for sample analysis or instrument calibration or other activity associated with radioactive apparatus or components; and

(5) FPL, pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

C. The license is subject to, and FPL shall comply with, all applicable provisions of the Act and the rules, regulations, and orders of the Commission, including the conditions set forth in 10 CFR Chapter I, now or hereafter in effect.

D. The license is subject to, and FPL shall comply with, the conditions specified and incorporated below:

(1) Changes during Construction

(a) FPL may request use of a preliminary amendment request (PAR) process, for license amendments, at any time before a Commission finding under 10 CFR 52.103(g). To use the PAR process, FPL shall submit a written request to the Office of New Reactors (NRO) in accordance with COL-ISG-025, "Changes during Construction under Part 52."

(b) Before NRO's issuance of a written PAR notification, FPL shall submit the license amendment request (LAR). Thereafter, NRO will issue a written PAR notification, setting forth whether FPL may proceed in accordance with the PAR, LAR, and COL-ISG-025. If FPL elects to proceed and the LAR is subsequently denied, FPL shall return the facility to its current licensing basis.

(2) Pre-operational Testing

(a) FPL shall perform the design-specific pre-operational tests identified below:

1. In-Containment Refueling Water Storage Tank (IRWST) Heatup Test (first plant test as identified in AP1000 Design Control Document (DCD), Rev. 19, Section 14.2.9.1.3 Item (h));

2. Pressurizer Surge Line Stratification Evaluation (first plant test as identified in AP1000 DCD, Rev. 19, Section 14.2.9.1.7 Item (d));
 3. Reactor Vessel Internals Vibration Testing (first plant test as identified in AP1000 DCD, Rev. 19, Section 14.2.9.1.9);
 4. Core Makeup Tank Heated Recirculation Tests (first three plants test as identified in AP1000 DCD, Rev. 19, Section 14.2.9.1.3 Items (k) and (w)); and
 5. Automatic Depressurization System Blowdown Test (first three plants test as identified in AP1000 DCD, Rev. 19, Section 14.2.9.1.3 Item (s)).
- (b) FPL shall review and evaluate the results of the tests identified in Section 2.D.(2)(a) of this license and confirm that these test results are within the range of acceptable values predicted or otherwise confirm that the tested systems perform their specified functions in accordance with AP1000 DCD Rev. 19, Section 14.2.9.
 - (c) FPL shall notify the Director of NRO, or the Director's designee, in writing, upon successful completion of the design-specific pre-operational tests identified in Section 2.D.(2)(a) of this license; and
 - (d) FPL shall notify the Director of NRO, or the Director's designee, in writing, upon the successful completion of all the ITAAC included in Appendix C to this license.
- (3) Nuclear Fuel Loading and Pre-critical Testing
- (a) Until the submission of the notification required by Section 2.D.(2)(c) of this license, FPL shall not load fuel into the reactor vessel;
 - (b) Upon submission of the notification required by Section 2.D.(2)(c) of this license and upon a Commission finding in accordance with 10 CFR 52.103(g) that all the acceptance criteria in the ITAAC in Appendix C to this license are met, FPL is authorized to perform pre-critical tests in accordance with the conditions specified herein;
 - (c) FPL shall perform the pre-critical tests identified in AP1000 DCD Rev. 19, Section 14.2.10.1;
 - (d) FPL shall review and evaluate the results of the tests identified in Section 2.D.(3)(c) of this license and confirm that these test results are within the range of acceptable values predicted or otherwise confirm that the tested systems perform their specified

functions in accordance with AP1000 DCD Rev. 19, Section 14.2.10; and

- (e) FPL shall notify the Director of NRO, or the Director's designee, in writing, upon successful completion of the pre-critical tests identified in Section 2.D.(3)(c) of this license.

(4) Initial Criticality and Low-Power Testing

- (a) Upon submission of the notification required by Section 2.D.(3)(e) of this license, FPL is authorized to operate the facility at reactor steady-state core power levels not to exceed 5-percent thermal power in accordance with the conditions specified herein;
- (b) FPL shall perform the initial criticality and low-power tests identified in AP1000 DCD Rev. 19, Sections 14.2.10.2 and 14.2.10.3, respectively, the Natural Circulation (first plant test) identified in AP1000 DCD Rev. 19, Section 14.2.10.3.6, and the Passive Residual Heat Removal Heat Exchanger (first plant test) identified in AP1000 DCD Rev. 19, Section 14.2.10.3.7;
- (c) FPL shall review and evaluate the results of the tests identified in Section 2.D.(4)(b) of this license and confirm that these test results are within the range of acceptable values predicted or otherwise confirm that the tested systems perform their specified functions in accordance with AP1000 DCD Rev. 19, Section 14.2.10.2 and 14.2.10.3; and
- (d) FPL shall notify the Director of NRO, or the Director's designee, in writing, upon successful completion of initial criticality and low-power tests identified in Section 2.D.(4)(b) of this license, including the design-specific tests identified therein.

(5) Power Ascension Testing

- (a) Upon submission of the notification required by Section 2.D.(4)(d) of this license, FPL is authorized to operate the facility at reactor steady-state core power levels not to exceed 100-percent thermal power in accordance with the conditions specified herein, but only for the purpose of performing power ascension testing;
- (b) FPL shall perform the power ascension tests identified in the AP1000 DCD Rev. 19, Section 14.2.10.4, the Rod Cluster Control Assembly Out of Bank Measurements (first plant test) identified in AP1000 DCD, Rev. 19, Section 14.2.10.4.6, and the Load Follow Demonstration (first plant test) identified in AP1000 DCD, Rev. 19, Section 14.2.10.4.22;
- (c) FPL shall review and evaluate the results of the tests identified in Section 2.D.(5)(b) of this license and confirm that these test results are within the range of acceptable values predicted or

otherwise confirm that the tested systems perform their specified functions in accordance with AP1000 DCD Rev.19, Section 14.2.10.4; and

- (d) FPL shall notify the Director of NRO, or the Director's designee, in writing, upon successful completion of power ascension tests identified in Section 2.D.(5)(b) of this license, including the design-specific tests identified therein.

(6) Maximum Power Level

Upon submission of the notification required by Section 2.D.(5)(d) of this license, FPL is authorized to operate the facility at steady state reactor core power levels not to exceed 3400 MW thermal (100-percent thermal power), as described in the FSAR, in accordance with the conditions specified herein.

(7) Reporting Requirements

- (a) Within 30 days of a change to the initial test program described in FSAR Section 14, Initial Test Program, made in accordance with 10 CFR 50.59 or in accordance with 10 CFR Part 52, Appendix D, Section VIII, "Processes for Changes and Departures," FPL shall report the change to the Director of NRO, or the Director's designee, in accordance with 10 CFR 50.59(d).
- (b) FPL shall report any violation of a requirement in Section 2.D.(3), Section 2.D.(4), Section 2.D.(5), and Section 2.D.(6) of this license within 24 hours. Initial notification shall be made to the NRC Operations Center in accordance with 10 CFR 50.72, with written follow up in accordance with 10 CFR 50.73.

(8) Incorporation

The Technical Specifications, Environmental Protection Plan, and ITAAC in Appendices A, B, and C, respectively, of this license are hereby incorporated into this license.

(9) Technical Specifications

The technical specifications in Appendix A to this license become effective upon a Commission finding that the acceptance criteria in this license (ITAAC) are met in accordance with 10 CFR 52.103(g).

(10) Operational Program Implementation

FPL shall implement the programs or portions of programs identified below, on or before the date FPL achieves the following milestones.

- (a) Environmental Qualification Program implemented before initial fuel load;

- (b) Reactor Vessel Material Surveillance Program implemented before initial criticality;
- (c) Preservice Testing Program implemented before initial fuel load;
- (d) Containment Leakage Rate Testing Program implemented before initial fuel load;
- (e) Fire Protection Program
 - 1. The fire protection measures in accordance with Regulatory Guide (RG) 1.189 for designated storage building areas (including adjacent fire areas that could affect the storage area) implemented before initial receipt of byproduct or special nuclear materials that are not fuel (excluding exempt quantities as described in 10 CFR 30.18);
 - 2. The fire protection measures in accordance with RG 1.189 for areas containing new fuel (including adjacent areas where a fire could affect the new fuel) implemented before receipt of fuel onsite;
 - 3. All fire protection program features implemented before initial fuel load;
- (f) Standard Radiological Effluent Controls implemented before initial fuel load;
- (g) Offsite Dose Calculation Manual implemented before initial fuel load;
- (h) Radiological Environmental Monitoring Program implemented before initial fuel load;
- (i) Process Control Program implemented before initial fuel load;
- (j) Radiation Protection Program (RPP) (including the ALARA principle) or applicable portions as identified in FSAR Section 12.5 thereof:
 - 1. RPP features (including the ALARA principle) applicable to receipt of by-product, source, or special nuclear materials (excluding exempt quantities as described in 10 CFR 30.18) implemented before initial receipt of such materials;
 - 2. RPP features (including the ALARA principle) applicable to new fuel implemented before receipt of initial fuel on site;

3. All other RPP features (including the ALARA principle) except for those applicable to control radioactive waste shipment implemented before initial fuel load;
 4. RPP features (including the ALARA principle) applicable to radioactive waste shipment implemented before first shipment of radioactive waste;
- (k) Reactor Operator Training Program implemented 18 months before the scheduled date of initial fuel load;
- (l) Motor-Operated Valve Testing Program implemented before initial fuel load;
- (m) Initial Test Program
1. Construction Test Program implemented before the first construction test;
 2. Preoperational Test Program implemented before the first preoperational test; and
 3. Startup Test Program implemented before initial fuel load;
- (n) Special Nuclear Material Control and Accounting Program implemented before initial receipt of special nuclear material; and
- (o) Special Nuclear Material Physical Protection Program implemented before initial receipt of special nuclear material on site.

(11) Operational Program Implementation Schedule

No later than 12 months after issuance of the COL, FPL shall submit to the Director of NRO, or the Director's designee, a schedule for implementation of the operational programs listed in FSAR Table 13.4-201, including the associated estimated date for initial loading of fuel. The schedule shall be updated every 6 months until 12 months before scheduled fuel loading, and every month thereafter until all the operational programs listed in FSAR Table 13.4-201 have been fully implemented. The schedule shall identify the completion of or implementation of the following:

- (a) The construction and inspection procedures for steel concrete composite (SC) construction activities for seismic Category I nuclear island modules (including shield building SC modules) described in AP1000 DCD Rev. 19, Section 3.8.4.8;
- (b) The spent fuel rack Metamic Coupon monitoring program (before initial fuel load);

- (c) Implementation of the flow accelerated corrosion (FAC) program including construction phase activities (before initial fuel load);
- (d) A turbine maintenance and inspection program, which must be consistent with the maintenance and inspection program plan activities and inspection intervals identified in FSAR Section 10.2.3.6 (before initial fuel load);
- (e) The availability of documented instrumentation uncertainties to calculate a power calorimetric uncertainty (before initial fuel load);
- (f) The availability of administrative controls to implement maintenance and contingency activities related to the power calorimetric uncertainty instrumentation (before initial fuel load);
- (g) The site-specific severe accident management guidelines (before startup testing);
- (h) The operational and programmatic elements of the mitigative strategies for responding to circumstances associated with loss of large areas of the plant due to explosions or fire developed in accordance with 10 CFR 50.54(hh)(2) (before initial fuel load); and
- (i) The pre-operational and startup procedures (including the site-specific startup administration manual) identified in FSAR Section 14.2.3 (before initiating the initial test program).

(12) Site- and Unit-specific Conditions

- (a) Before commencing installation of individual piping segments and connected components in their final locations, FPL shall complete the as-designed pipe rupture hazards analysis for compartments (rooms) containing those segments in accordance with the criteria outlined in the AP1000 DCD, Rev. 19, Sections 3.6.1.3.2 and 3.6.2.5, and shall inform the Director of NRO, or the Director's designee, in writing, upon the completion of this analysis and the availability of the as-designed pipe rupture hazards analysis reports.
- (b) Before commencing installation of individual piping segments identified in AP1000 DCD, Rev. 19, Section 3.9.8.7, and connected components in their final locations in the facility, FPL shall complete the analysis of the as-designed individual piping segments and shall inform the Director of NRO, or the Director's designee, in writing, upon the completion of these analyses and the availability of the design reports for the selected piping packages.
- (c) No later than one hundred eighty (180) days before the date scheduled for initial fuel load set forth in the notification submitted in accordance with 10 CFR 52.103(a), FPL shall submit to the

Director of NRO, or the Director's designee, in writing, a fully developed set of plant-specific emergency action levels (EALs) in accordance with Nuclear Energy Institute (NEI) 07-01, "Methodology for Development of Emergency Action Levels – Advanced Passive Light Water Reactors," Revision 0, with no deviations. The EALs shall have been discussed and agreed upon with State and local officials.

- (d) No later than eighteen (18) months before the latest date set forth in the schedule submitted in accordance with 10 CFR 52.99(a) for completing the inspections, tests, and analysis in the ITAAC, FPL shall have performed a detailed staffing analysis, in accordance with NEI 10-05, "Assessment of On-Shift Emergency Response Organization Staffing and Capabilities," Revision 0.

No later than one hundred eighty (180) days before the date scheduled for initial fuel load set forth in the notification submitted in accordance with 10 CFR 52.103(a), FPL shall have revised the Emergency Plan to incorporate any changes identified in the staffing analysis that are needed to bring staffing to the required levels.

- (e) Before initial fuel load, FPL shall:
1. Update the seismic interaction analysis in AP1000 DCD, Rev. 19, Section 3.7.5.3 to reflect as-built information, which must be based on as-procured data, as well as the as-constructed condition;
 2. Reconcile the seismic analyses described in Section 3.7.2 of the AP1000 DCD, Rev. 19, to account for detailed design changes, including, but not limited to, those due to as-procured or as-built changes in component mass, center of gravity, and support configuration based on as-procured equipment information;
 3. Calculate the instrumentation uncertainties of the actual plant operating instrumentation to confirm that either the design limit departure from nucleate boiling ratio (DNBR) values remain valid or that the safety analysis minimum DNBR bounds the new design limit DNBR values plus DNBR penalties;
 4. Update the pressure-temperature (P-T) limits using the pressure temperature limits report (PTLR) methodologies approved in AP1000 DCD, Rev. 19, using the plant-specific material properties or confirm that the reactor vessel material properties meet the specifications of and use the Westinghouse generic PTLR curves;

5. Verify that plant-specific belt line material properties are consistent with the properties given in AP1000 DCD Rev. 19, Section 5.3.3.1 and Tables 5.3-1 and 5.3-3. The verification must include a pressurized thermal shock (PTS) evaluation based on as-procured reactor vessel material data and the projected neutron fluence for the plant design objective. Submit this PTS evaluation report to the Director of NRO, or the Director's designee, in writing, at least 18 months before initial fuel load;
6. Review differences between the as-built plant and the design used as the basis for the AP1000 seismic margin analysis. FPL shall perform a verification walkdown to identify differences between the as-built plant and the design. FPL shall evaluate any differences and must modify the seismic margin analysis as necessary to account for the plant-specific design and any design changes or departures from the certified design. FPL shall compare the as-built structures, systems, and components (SSCs) high confidence, low probability of failures (HCLPFs) with those assumed in the AP1000 seismic margin evaluation, before initial fuel load. FPL shall evaluate deviations from the HCLPF values or assumptions in the seismic margin evaluation due to the as-built configuration and final analysis to determine if vulnerabilities have been introduced;
7. Review differences between the as-built plant and the design used as the basis for the AP1000 probabilistic risk assessment (PRA) and the AP1000 DCD, Rev. 19, Table 19.59-18. FPL shall evaluate the plant-specific PRA-based insight differences and shall modify the plant-specific PRA model as necessary to account for the plant-specific design and any design changes or departures from the design certified in Rev. 19 of the AP1000 DCD;
8. Review differences between the as-built plant and the design used as the basis for the AP1000 internal fire and internal flood analysis. FPL shall evaluate the plant-specific internal fire and internal flood analyses and shall modify the analyses as necessary to account for the plant-specific design and any design changes or departures from the design certified in Rev. 19 of the AP1000 DCD; and
9. Perform a thermal lag assessment of the as-built equipment listed in Tables 6b and 6c in Attachment A of APP-GW-GLR-069, "Equipment Survivability Assessment," to provide additional assurance that this equipment can perform its severe accident functions during environmental

conditions resulting from hydrogen burns associated with severe accidents. FPL shall perform this assessment for equipment used for severe accident mitigation that has not been tested at severe accident conditions. FPL shall assess the ability of the as-built equipment to perform during accident hydrogen burns using the environment enveloping method or the test based thermal analysis method described in Electric Power Research Institute (EPRI) NP-4354, "Large Scale Hydrogen Burn Equipment Experiments."

10. Implement a surveillance program for explosively actuated valves (squib valves) that includes the following provisions in addition to the requirements specified in the edition of the *ASME Code for Operation and Maintenance of Nuclear Power Plants* (OM Code) as incorporated by reference in 10 CFR 50.55a.

- a. Preservice Testing

All explosively actuated valves shall be preservice tested by verifying the operational readiness of the actuation logic and associated electrical circuits for each explosively actuated valve with its pyrotechnic charge removed from the valve. This must include confirmation that sufficient electrical parameters (voltage, current, resistance) are available at the explosively actuated valve from each circuit that is relied upon to actuate the valve. In addition, a sample of at least 20% of the pyrotechnic charges in all explosively actuated valves shall be tested in the valve or a qualified test fixture to confirm the capability of each sampled pyrotechnic charge to provide the necessary motive force to operate the valve to perform its intended function without damage to the valve body or connected piping. The sampling must select at least one explosively actuated valve from each redundant safety train. Corrective action shall be taken to resolve any deficiencies identified in the operational readiness of the actuation logic or associated electrical circuits, or the capability of a pyrotechnic charge. If a charge fails to fire or its capability is not confirmed, all charges with the same batch number shall be removed, discarded, and replaced with charges from a different batch number that has demonstrated successful 20% sampling of the charges.

- b. Operational Surveillance

Explosively actuated valves shall be subject to the following surveillance activities after commencing plant operation:

- i. At least once every 2 years, each explosively actuated valve shall undergo visual external examination and remote internal examination (including evaluation and removal of fluids or contaminants that may interfere with operation of the valve) to verify the operational readiness of the valve and its actuator. This examination shall also verify the appropriate position of the internal actuating mechanism and proper operation of remote position indicators. Corrective action shall be taken to resolve any deficiencies identified during the examination with post-maintenance testing conducted that satisfies the preservice testing requirements.
- ii. At least once every 10 years, each explosively actuated valve shall be disassembled for internal examination of the valve and actuator to verify the operational readiness of the valve assembly and the integrity of individual components and to remove any foreign material, fluid, or corrosion. The examination schedule shall provide for both of the two valve designs used for explosively actuated valves at the facility to be included among the explosively actuated valves to be disassembled and examined every 2 years. Corrective action shall be taken to resolve any deficiencies identified during the examination with post-maintenance testing conducted that satisfies the preservice testing requirements.
- iii. For explosively actuated valves selected for test sampling every 2 years in accordance with the ASME OM Code, the operational readiness of the actuation logic and associated electrical circuits shall be verified for each sampled explosively actuated valve following removal of its charge. This must include confirmation that sufficient electrical parameters (voltage, current, resistance) are available for each valve actuation circuit. Corrective action shall be taken to

resolve any deficiencies identified in the actuation logic or associated electrical circuits.

- iv. For explosively actuated valves selected for test sampling every 2 years in accordance with the ASME OM Code, the sampling must select at least one explosively actuated valve from each redundant safety train. Each sampled pyrotechnic charge shall be tested in the valve or a qualified test fixture to confirm the capability of the charge to provide the necessary motive force to operate the valve to perform its intended function without damage to the valve body or connected piping. Corrective action shall be taken to resolve any deficiencies identified in the capability of a pyrotechnic charge in accordance with the preservice testing requirements.

This license condition shall expire upon (1) incorporation of the above surveillance provisions for explosively actuated valves into the facility's inservice testing program, or (2) incorporation of inservice testing requirements for explosively actuated valves in new reactors (i.e., plants receiving a construction permit, or combined license for construction and operation, after January 1, 2000) to be specified in a future edition of the ASME OM Code as incorporated by reference in 10 CFR 50.55a, including any conditions imposed by the NRC, into the facility's inservice testing program.

11. Address the following requirements using the guidance contained in JLD ISG-2012-03, Compliance with Order EA-12-051, Reliable Spent Fuel Pool Instrumentation, Revision 0:

The spent fuel pool instrumentation shall be maintained available and reliable through the development and implementation of a training program. The training program shall include provisions to ensure trained personnel can route the temporary power lines from the alternate power source to the appropriate connection points, and connect the alternate power source to the safety-related level instrument channels.

12. Develop, implement, and maintain procedural controls limiting radionuclide inventory in each of the Radwaste Building Monitor Tanks, and separately in each of up to three (3) Radwaste Building mobile radwaste processing

systems to below A_2 quantities for radionuclides specified in Appendix A to 10 CFR Part 71 (Tables A-1 and A-3), as described in FSAR Subsection 13.5.2.2.5. The procedures shall also ensure that any additional equipment located in the Radwaste Building is limited to below A_2 quantities and that the total cumulative radioactive inventory contained in unpackaged wastes (including liquid waste, wet waste, solid waste, gaseous waste, activated or contaminated metals and components, and contaminated waste present at any time in the Radwaste Building) is limited so that an unmitigated release, occurring over a two hour time period, would not result in a dose of greater than 500 millirem at the protected area boundary or an unmitigated exposure, occurring over a two hour time period, would not result in a dose of greater than 5 rem to site personnel located 10 feet from the total cumulative radioactive inventory.

- (f) FPL shall perform geologic mapping of excavations for safety related structures; examine and evaluate geologic features discovered in these excavations; and shall inform the Director of NRO, or the Director's designee, in writing, once excavations for these safety related structures are open for examination.

(g) Emergency Planning Actions

1. Communications:

- a. No later than eighteen (18) months before the latest date set forth in the schedule submitted in accordance with 10 CFR 52.99(a) for completing the inspections, tests, and analyses in the ITAAC, the licensee shall have performed an assessment of on-site and off-site communications systems and equipment relied upon during an emergency event to ensure communications capabilities can be maintained during an extended loss of alternating current power. The communications capability assessment shall be performed in accordance with NEI 12-01, "Guideline for Assessing Beyond Design Basis Accident Response Staffing and Communications Capabilities," Revision 0.
- b. No later than one hundred eighty (180) days before the date scheduled for initial fuel load set forth in the notification submitted in accordance with 10 CFR 52.103(a), the licensee shall have completed implementation of corrective actions identified in the communications capability assessment, including revisions to the Emergency Plan.

2. Staffing:

- a. No later than eighteen (18) months before the latest date set forth in the schedule submitted in accordance with 10 CFR 52.99(a) for completing the inspections, tests, and analyses in the ITAAC, the licensee shall have performed an assessment of the on-site and augmented staffing capability for response to a multi-unit event. The staffing assessment shall be performed in accordance with NEI 12-01, "Guideline for Assessing Beyond Design Basis Accident Response Staffing and Communications Capabilities," Revision 0.
- b. No later than one hundred eighty (180) days before the date scheduled for initial fuel load, as set forth in the notification submitted in accordance with 10 CFR 52.103(a), the licensee shall revise the Emergency Plan to include the following:
 - i. Incorporation of corrective actions identified in the staffing assessments described by this license condition.
 - ii. Identification of how the augmented staff will be notified, given degraded communications capabilities.

(h) Mitigation Strategies for Beyond-Design-Basis External Events

- 1. FPL shall complete development of an overall integrated plan of strategies to mitigate a beyond-design-basis external event at least 1 year before the completion of the last ITAAC on the schedule required by 10 CFR 52.99(a).
- 2. The overall integrated plan required by this condition must include guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities. The overall integrated plan must include provisions to address all accident mitigation procedures and guidelines (including the guidance and strategies required by this section, emergency operating procedures, abnormal operating procedures, and extensive damage management guidelines).
- 3. The guidance and strategies required by this condition must be capable of (i) mitigating a simultaneous loss of all alternating current (ac) power and loss of normal access to the normal heat sink and (ii) providing for adequate capacity to perform the functions upon which the guidance

and strategies rely for all units on the Turkey Point site and in all modes at each unit on the site.

4. Before initial fuel load, the licensee shall fully implement the guidance and strategies required by this condition, including:
 - a. Procedures;
 - b. Training
 - c. Acquisition, staging or installation of equipment and consumables relied upon in the strategies; and
 - d. Configuration controls and provisions for maintenance and testing (including testing procedures and frequencies for preventative maintenance) of the equipment upon which the strategies and guidance required by this condition rely
5. The training required by this condition must use a Systematic Approach to Training (SAT) to evaluate training for station personnel, and must be based upon plant equipment and procedures upon which the guidance and strategies required by this Condition rely.
6. The licensee shall maintain the guidance and strategies described in the application upon issuance of the license, and the integrated plan of strategies upon its completion as required by this condition. The licensee may change the strategies and guidelines required by this condition provided that the licensee evaluates each such change to ensure that the provisions of 2.D.(12)(h)2 and 2.D.(12)(h)3 in this condition continue to be satisfied and the licensee documents the evaluation in an auditable form.

(i) Insurance and Indemnity

1. Before the scheduled date for initial fuel load, and within ninety (90) days after the NRC publishes the notice of intended operation in the *Federal Register*, FPL shall provide satisfactory documentary evidence to the Director of the Office of Nuclear Reactor Regulation or the Director's designee that it has obtained the appropriate amount of primary and secondary financial protection required of licensees pursuant to 10 CFR 140.11(a)(4) and the appropriate amount of financial protection required by 10 CFR 50.54(w).

2. Before the scheduled date of initial fuel load, and within ninety (90) days after the NRC publishes the notice of intended operation in the *Federal Register*, FPL shall provide evidence to the NRC that it would have the ability to pay into the nuclear industry retrospective rating plan in the event of a nuclear incident and in the amount specified in 10 CFR 140.11(a)(4) for one calendar year using one of the following methods:
 - a. Surety bond,
 - b. Letter of credit,
 - c. Revolving credit/term loan arrangement,
 - d. Maintenance of escrow deposits of government securities, or
 - e. Annual certified financial statement showing either that a cash flow (i.e., cash available to a company after all operating expenses, taxes, interest charges, and dividends have been paid) can be generated and would be available for payment of retrospective premiums within three (3) months after submission of the statement, or a cash reserve or a combination of cash flow and cash reserve.

Thereafter, FPL shall provide evidence of the guarantees of payment of deferred premiums in accordance with the provisions specified in 10 CFR 140.21.

- (j) At the first annual update of the Turkey Point Units 6 and 7 FSAR required by 10 CFR 50.71(e), FPL shall include the following changes based on inspection findings from NRC Inspection Report No. 99900404/2015-203:
 1. Revise Appendix 19F.4.1, "Malevolent Aircraft," to include the Auxiliary Building as a key design feature that also protects from physical damage the core cooling credited to meet 10 CFR 50.150(b)(2).
 2. Revise DCD drawings to show the 5 psid and 3 hour fire rated doors that have been added to the inner portion (annulus side) of the shield building in accordance with final markups used to satisfy NRC Inspection Report No. 99900404/2015-203 and 10 CFR 50.150(a)(1). The DCD figures listed below are to be revised:
 - a. Figure 1.2-7 – Nuclear Island General Arrangement Plan at Elevation 107'-2" & 111'-0"

- b. Figure 1.2-10 – Nuclear Island General Arrangement Plan at El. 135'-3"
 - c. Figure 9A-1 (Sheet 5 of 16) – Nuclear Island Fire Areas Plan at Elevation 100'-0" & 107'-2"
 - d. Figure 9A-1 (Sheet 7 of 16) – Nuclear Island Fire Area Plan at Elevation 135'-3"
 - e. Figure 12.3-1 (Sheet 6 of 16) – Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 100'-0" & 107'-2"
 - f. Figure 12.3-1 (Sheet 8 of 16) – Radiation Zones, Normal Operations/Shutdown Nuclear Island, Elevation 135'-3"
 - g. Figure 12.3-2 (Sheet 6 of 15) – Radiation Zones, Post-Accident Nuclear Island, Elevation 100'-0" & 107'-2"
 - h. Figure 12.3-2 (Sheet 8 of 15) – Radiation Zones, Post-Accident Nuclear Island, Elevation 135'-3"
 - i. Figure 12.3-3 (Sheet 6 of 16) – Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 100'-0" & 107'-2"
 - j. Figure 12.3-3 (Sheet 8 of 16) – Radiological Access Controls, Normal Operations/Shutdown Nuclear Island, Elevation 135'-3"
- E. FPL shall have and maintain financial protection of such type and in such amounts as the Commission shall require in accordance with Section 170 of the Act, to cover public liability claims.
- F. Exemptions
- (1) The following exemptions from the regulations were granted in the rulemaking for the design certification rule that is referenced in the application. In accordance with 10 CFR Part 52, Appendix A, Section V, Applicable Regulations, Subsection B, and pursuant to 10 CFR 52.63(a)(5), FPL is exempt from the following portions of the regulations:
 - (a) Paragraph (f)(2)(iv) of 10 CFR 50.34—Plant Safety Parameter Display Console
 - (b) Paragraph (c)(1) of 10 CFR 50.62—Auxiliary (or emergency) feedwater system; and

- (c) Appendix A to 10 CFR Part 50, GDC 17—Second offsite power supply circuit.
- (2) The following exemption from part of the referenced design certification rule meets the requirements of 10 CFR 52.7 and Section VIII.A.4, VIII.B.4, or VIII.C.4 of Appendix D to 10 CFR Part 52, is authorized by law, will not present an undue risk to the public health or safety, and is consistent with the common defense and security. Special circumstances are present in that the application of the regulation in this particular circumstance is not necessary to achieve the underlying purpose of the rule (10 CFR 50.12(a)(2)(ii)) as described in the application and the FSER associated with this license.
 - (a) FPL is exempt from the requirement of 10 CFR Part 52, Appendix D, Section IV.A.2.a to include a plant-specific DCD containing the same type of information and using the same organization and numbering as the generic DCD for the AP1000 certified design. This exemption is specific to the organization and numbering scheme in the FSAR and is related to departure number STD DEP 1.1-1.
- (3) For the reasons set forth below, the following specific exemptions which are outside the scope of the design certification rule referenced in the application are granted:
 - (a) FPL is exempt from the requirements of 10 CFR 70.22(b), 10 CFR 70.32(c), 10 CFR 74.31, 10 CFR 74.41, and 10 CFR 74.51 because FPL meets the requirements of 10 CFR 70.17 and 74.7 as discussed in Section 1.5.4 of the final safety evaluation report (FSER) associated with this license. The exemption meets the requirements of 10 CFR 52.7 because it is authorized by law, will not present an undue risk to public health and safety, and is consistent with the common defense and security. Additionally, special circumstances are present in that the application of the regulations in this particular circumstance is not necessary to achieve the underlying purpose of the rule (10 CFR 50.12(a)(ii)) as described in the FSER associated with this license.
 - (b) FPL is exempt from the requirements of 10 CFR 52.93(a)(1) as it relates to the exemption granted in Section 2.F.(2)(a) of this license because the exemption meets the requirements of 10 CFR 52.7 and because the exemption is authorized by law, will not present an undue risk to the public health or safety, and is consistent with the common defense and security. Additionally, special circumstances are present in that the application of the regulation in this particular circumstance is not necessary to achieve the underlying purpose of the rule (10 CFR 50.12(a)(2)(ii)) as described in the FSER associated with this license.

- (4) For the reasons set forth below, the following exemptions associated with departures from Tier 1 and generic technical specifications of the AP1000 design certification are granted:
- The Tier 1 and generic technical specifications departures listed below meet the requirements of 10 CFR Part 52, Appendix A, Section VIII.A.4 or VIII.C.4 and the regulations referenced therein because as discussed in Chapter 21 of the FSER associated with this license:
 - The Tier 1 departures will not significantly decrease the level of safety otherwise provided by the design;
 - The Tier 1 and generic technical specifications departures are authorized by law, will not present an undue risk to the public health and safety, and are consistent with the common defense and security;
 - Special circumstances are present as required by 10 CFR 50.12(a)(2); specifically, as discussed in Chapter 21 of the final safety evaluation report for this license, the staff finds that there are special circumstances under 10 CFR 50.12(a)(2)(ii) for the following Tier 1 and generic technical specifications exemptions because application of the regulation in the particular circumstances would not serve the underlying purpose of the rule or is not necessary to achieve the underlying purpose of the rule;
 - For Tier 1 departures identified in 2.F.(4)(a), 2.F.(4)(b), 2.F.(4)(c), and 2.F.(4)(d), special circumstances do not outweigh any potential decrease in safety due to reduced standardization.
- a. PTN DEP 3.2-1 (exemption from Tier 1 and generic technical specifications)
 - b. PTN DEP 6.4-1 (exemption from Tier 1 and generic technical specifications)
 - c. PTN DEP 6.4-2 (exemption from Tier 1 and generic technical specifications)
 - d. PTN DEP 6.2-1 (exemption from Tier 1)
 - e. PTN DEP 7.3-1 (exemption from generic technical specifications)
- G. FPL shall maintain the guidance and strategies developed in accordance with 10 CFR 50.54(hh)(2).
- H. This license is effective as of insert actual date of license issuance and shall expire at midnight on the date 40 years from the date that the Commission finds

that the acceptance criteria in the combined license are met in accordance with 10 CFR 52.103(g).

FOR THE NUCLEAR REGULATORY
COMMISSION

Frederick D. Brown, Acting Director
Office of New Reactors

Appendices:

Appendix A – Technical Specifications

Appendix B – Environmental Protection Plan

Appendix C – Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC)

APPENDIX A

TURKEY POINT UNIT 7

TECHNICAL SPECIFICATIONS

The unit-specific technical specifications from the Turkey Point Unit 7 combined license application, Part 4, Section B, will be included in Appendix A of the Turkey Point Unit 7 combined license. The applicant has committed to providing the NRC with unit-specific versions of the Unit 6/Unit 7 technical specifications that were submitted in the combined license application in a suitable timeframe to support issuance of each individual unit's combined license. These unit-specific technical specifications will exceed 250 pages. Therefore, for ease of handling, the technical specifications are not included in this draft combined license, but can be viewed in the Agencywide Documents Access and Management System (ADAMS) at the Accession Number given below:

[ML16250A350 – FPL – Turkey Point Units 6 & 7 COLA Rev. 8 \(Technical Specifications\) – Part 4 Technical Specifications](#)

APPENDIX B
TURKEY POINT UNIT 7
ENVIRONMENTAL PROTECTION PLAN
(NONRADIOLOGICAL)

1.0 Objectives of the Environmental Protection Plan

The Environmental Protection Plan (EPP) objectives are to ensure compliance with Biological Opinions issued pursuant to the Endangered Species Act of 1973, as amended (ESA), and to ensure that the U.S. Nuclear Regulatory Commission (NRC) is kept informed of other environmental matters. The EPP is intended to be consistent with Federal, State, and local requirements for environmental protection.

2.0 Environmental Protection Issues

In the Final Environmental Impact Statement (FEIS) dated October 2016 the staff considered the environmental impacts associated with the construction and operation of Turkey Point Units 6 and 7. This EPP applies to Florida Power & Light's (FPL, the licensee) actions affecting the environmental resources evaluated in the FEIS and FPL's actions that may affect any newly discovered environmental resources.

2.1 Aquatic Resources Issues

Federal agencies other than the NRC, such as the U.S. Environmental Protection Agency and the U.S. Army Corps of Engineers, have jurisdiction to regulate aquatic resources under the Federal Water Pollution Control Act (Clean Water Act or CWA) and the Rivers and Harbors Appropriation Act of 1899 (RHA). Certain water quality environmental considerations identified in the FEIS, including effluent limitations, monitoring requirements, and wetland and aquatic resource mitigation measures, are regulated under FPL's CWA permits, such as National Pollutant Discharge Elimination System and Section 404 permits, and RHA Section 10 permit. Nothing within this EPP shall be construed to place additional requirements on the regulation of aquatic resources except the imposition of the requirements in a Biological Opinion under the ESA (see Section 2.3). FPL is required to inform the NRC of events or situations concerning aquatic resources consistent with the provisions of Title 10 of the Code of Federal Regulations (10 CFR) Section 50.72(b)(2)(xi), and this EPP does not expand any reporting requirement required by that regulation.

2.2 Terrestrial Resources Issues

Several statutes govern the regulation of terrestrial resources. For example, the U.S. Fish and Wildlife Service (FWS) regulates matters involving migratory birds and their nests in accordance with the Migratory Bird Treaty Act (MBTA). Activities affecting migratory birds or their nests may require permits under the MBTA. The FWS also regulates matters involving the protection and taking of bald and golden eagles in accordance with the Bald and Golden Eagle Protection Act. FPL shall inform NRC of any events or situations concerning terrestrial resources consistent with the provisions of 10 CFR 50.72(b)(2)(xi), and this EPP does not expand any reporting requirement required by that regulation.

2.3 Endangered Species Act of 1973

The NRC may be required to protect some aquatic resources and terrestrial resources in accordance with the ESA. In accordance with ESA Section 7, FPL shall comply with the following conditions to implement the terms and conditions set forth in the Incidental Take Statement of the Biological Opinion issued by the FWS on June 23, 2017 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17177A673):

1. No earlier than one year (two years for the Miami tiger beetle) before commencing land clearing and construction activities for the plant and associated facilities in areas potentially containing one or more of the following species, FPL shall conduct surveys to determine whether the following species are present:

- Florida bonneted bat
- Piping plover
- Bartram's scrub-hairstreak butterfly
- Florida leafwing butterfly
- Miami tiger beetle (a minimum of two years of survey data for appropriate habitat is required)

FPL shall provide the survey results in a report to the FWS Vero Beach Field Office and the NRC. If any individuals are found by these surveys, the licensee shall coordinate with the FWS to avoid or minimize any "take" of these species.

2. No earlier than one year before commencing land clearing and construction activities for the plant and associated facilities in areas potentially containing one or more of the following species, FPL shall conduct surveys to determine whether the following species are present:

- Beach jaquemontia
- Carter's small-flowered flax
- Crenulate lead plant
- Deltoid spurge
- Florida Brickell-bush
- Garber's spurge
- Small's milkpea
- Tiny polygala

FPL shall provide the survey results in a report to the FWS Vero Beach Field Office and NRC. If any occurrences of these species are found by these surveys, the licensee shall coordinate with the FWS to avoid or minimize any "take" of these species.

3. Before and for each day throughout the period of active land clearing, site preparation, and muck placement work, the licensee shall conduct pedestrian surveys for the American crocodile and eastern indigo snake in potentially suitable habitats undergoing disturbance. If any crocodiles are found, the licensee shall cease work in the affected area until the individuals have left or been relocated. If any eastern indigo snakes are found, the licensee shall cease work until the individuals have left areas where they might be killed or injured by project work.

4. Prior to land-clearing to build the west transmission lines, the licensee shall conduct an aerial survey for the wood stork during the nesting season to determine if active wood stork nesting colonies occur within 0.5 mi (0.8 km) of the west transmission line route.
5. After land-clearing but prior to commencing construction on the west transmission lines, the licensee shall conduct flight surveys for the wood stork during the nesting season.
6. During the first nesting season following completion of construction of the west transmission lines, the licensee shall monitor for injured or dead wood storks along the section of the west transmission line that occurs near the known wood stork nesting colonies. Monitoring methods shall be developed in conjunction with the FWS, Florida Fish and Wildlife Conservation Commission, and South Florida Water Management District.
7. Following commencement of construction and throughout the period of construction, the licensee shall submit to the FWS Vero Beach Field Office an annual report describing:
 - 1) Any observations within the project area of injured or dead individuals of the following species: American crocodile, eastern indigo snake, Everglade snail kite, Florida panther, red knot, and wood stork.
 - 2) The acreage of each habitat type cleared, using habitat names used in the FEIS.
8. Upon locating a dead, injured, or sick threatened or endangered species, the licensee shall immediately notify the FWS Law Enforcement Office at 20501 Independence Boulevard, Groveland, Florida 34736-8573; Phone 352-429-1064 and the Florida Fish and Wildlife Conservation Commission, South Region, 3900 Drane Field Road, Lakeland, Florida, 33811-1299; Phone 800-282-8002. The licensee shall follow the instruction of the FWS Law Enforcement Office regarding the care, disposition, and/or preservation of any such individuals.

If any Federally listed species or critical habitat occurs in an area affected by construction or operation of the plant that was not previously identified as occurring in such areas, including species and critical habitat that were not previously Federally listed, FPL shall inform the NRC within four hours of discovery. The time of discovery is identified as the specific time when a decision is made to notify another agency or to issue a press release. Similarly, FPL shall inform the NRC within four hours of discovery of any take, as defined in the ESA, of a Federally listed species or destruction or adverse modification of critical habitat. The four-hour discovery notification shall be made to the NRC Operations Center via the Emergency Notification System. FPL shall provide any necessary information to the NRC if the NRC initiates or reinitiates consultation under the ESA.

Unusual Event - FPL shall inform the NRC of any onsite mortality, injury, or unusual occurrence of any species protected by the ESA within four hours of discovery, followed by a written report in accordance with Section 4.1. The time of discovery is identified as the specific time when a decision is made to notify another agency or to issue a press release. Such incidents shall be reported regardless of FPL's assessment of causal relation to plant construction or operation.

3.0 Consistency Requirements

FPL shall notify the NRC of proposed changes to permits or certifications concerning aquatic or terrestrial resources by providing the NRC with a copy of the proposed change(s) at the same time it is submitted to the permitting agency.

FPL shall provide the NRC with a copy of the application for renewal of permits or certifications at the same time the application is submitted to the permitting agency.

Changes to or renewals of such permits or certifications shall be reported to the NRC within 30 days following the later of the date the change or renewal is approved or the date the change becomes effective. If a permit or certification, in part or in its entirety, is appealed and stayed, the NRC shall be notified within 30 days following the date the stay is granted.

4.0 Administrative Procedures

4.1 Plant Reporting Requirements: Non-routine Reports

A written report shall be submitted to the NRC within 30 days of occurrence of any unusual event described in Section 2.3 of this EPP. The report shall:

- (a) describe, analyze, and evaluate the event, including extent and magnitude of the impact and plant operating characteristics at the time of the event,
- (b) describe the probable cause of the event,
- (c) indicate the action taken to correct the reported event,
- (d) indicate the corrective action taken to preclude repetition of the event and to prevent similar occurrences involving similar components or systems, and
- (e) indicate the agencies notified and their preliminary responses.

Events reportable under this subsection, which also require reports to other Federal, state, or local agencies, shall be reported in accordance with those reporting requirements in lieu of the requirements of this subsection. The NRC shall be provided a copy of such report at the same time it is submitted to the other agency.

4.2 Review and Audit

FPL shall provide for review and audit of compliance with Section 2.3 of this EPP. The audits shall be conducted independently of the individual or groups responsible for performing the specific activity. A description of the organizational structure utilized to achieve the independent review and audit function and results of the audit activities shall be maintained and made available for inspection.

4.3 Records Retention

Records required by this EPP shall be made and retained in a manner convenient for review and inspection. These records shall be made available to the NRC on request. The records,

data, and logs relating to this EPP shall be retained for five years or, where applicable, in accordance with the requirements of other agencies.

4.4 Changes in Environmental Protection Plan

A request for a change in the EPP shall include an assessment of the environmental impact of the proposed change and a supporting justification. Implementation of such changes in the EPP shall not commence prior to NRC approval of the proposed changes in the form of a license amendment incorporating the appropriate revision to the EPP.

FPL shall request a license amendment to incorporate the requirements of any Terms and Conditions set forth in the Incidental Take Statement of applicable Biological Opinions issued subsequent to the effective date of this EPP.

APPENDIX C

TURKEY POINT UNIT 7

INSPECTIONS, TESTS, ANALYSES, AND ACCEPTANCE CRITERIA (ITAAC)

The ITAAC Master List is a table of unit-specific ITAAC which are from the AP1000 DCD and the Turkey Point combined license application. The consolidated set of unit-specific ITAAC will be included in Appendix C of the Turkey Point Unit 7 combined license. These unit-specific ITAAC details will exceed 170 pages. Therefore, for ease of handling, the ITAAC details are not included in this draft combined license, but can be viewed in the Agencywide Documents Access and Management System (ADAMS) at the Accession Number given below:

- COL Application Part 10, Rev. 8 (COL8) – [ML16250A554 – FPL – Turkey Point Units 6 & 7 COLA Rev. 8 \(ITAAC\) – Part 10 License Conditions \(Including ITAAC\)](#)
- Westinghouse AP1000 DCD, Rev. 19, document files 5 through 21 (DCD19) – <http://pbadupws.nrc.gov/docs/ML1117/ML11171A500.html>

No.	ITAAC No.	Plant System ITAAC	Source
1	2.1.01.01	Fuel Handling and Refueling System	DCD19
2	2.1.01.02		DCD19
3	2.1.01.03		DCD19
4	2.1.01.04		DCD19
5	2.1.01.05		DCD19
6	2.1.01.06.i		DCD19
7	2.1.01.06.ii		DCD19
8	2.1.01.07.i		DCD19
9	2.1.01.07.ii		DCD19
10	2.1.01.07.iii		DCD19
11	2.1.01.07.iv		DCD19
12	2.1.02.01	Reactor Coolant System	DCD19
13	2.1.02.02a		DCD19
14	2.1.02.02b		DCD19
15	2.1.02.03a		DCD19
16	2.1.02.03b		DCD19
17	2.1.02.04a		DCD19
18	2.1.02.04b		DCD19
19	2.1.02.05a.i		DCD19
20	2.1.02.05a.ii		DCD19
21	2.1.02.05a.iii		DCD19
22	2.1.02.05b		DCD19
23	2.1.02.06		DCD19
24	2.1.02.07a.i		DCD19
25	2.1.02.07a.ii		DCD19
26	2.1.02.07b		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
27	2.1.02.07c	Reactor Coolant System (cont'd)	DCD19
28	2.1.02.08a.i		DCD19
29	2.1.02.08a.ii		DCD19
30	2.1.02.08b		DCD19
31	2.1.02.08c		DCD19
32	2.1.02.08d.i		DCD19
33	2.1.02.08d.ii		DCD19
34	2.1.02.08d.iii		DCD19
35	2.1.02.08d.iv		DCD19
36	2.1.02.08d.v		DCD19
37	2.1.02.08d.vi		DCD19
38	2.1.02.08d.vii		DCD19
39	2.1.02.08d.viii		DCD19
40	2.1.02.08e		DCD19
41	2.1.02.09a		DCD19
42	2.1.02.09b.i		DCD19
43	2.1.02.09b.ii		DCD19
44	2.1.02.09c		DCD19
45	2.1.02.10		DCD19
46	2.1.02.11a.i		DCD19
47	2.1.02.11a.ii		DCD19
48	2.1.02.11b.i		DCD19
49	2.1.02.11b.ii		DCD19
50	2.1.02.11b.iii		DCD19
51	2.1.02.11c.i		DCD19
52	2.1.02.11c.ii		DCD19
53	2.1.02.12a.i		DCD19
54	2.1.02.12a.ii		DCD19
55	2.1.02.12a.iii		DCD19
56	2.1.02.12a.iv		DCD19
57	2.1.02.12a.v		DCD19
58	2.1.02.12a.vi		DCD19
59	2.1.02.12a.vii		DCD19
60	2.1.02.12a.viii		DCD19
61	2.1.02.12a.ix		DCD19
62	2.1.02.12b		DCD19
63	2.1.02.13a		DCD19
64	2.1.02.13b		DCD19
65	2.1.02.13c		DCD19
66	2.1.02.14		DCD19
67	2.1.02.15		DCD19
68	2.1.03.01	Reactor System	DCD19
69	2.1.03.02a		DCD19
70	2.1.03.02b		DCD19
71	2.1.03.02c		DCD19
72	2.1.03.03		DCD19
73	2.1.03.04		DCD19
74	2.1.03.05		DCD19
75	2.1.03.06.i		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
76	2.1.03.06.ii	Reactor System (cont'd)	DCD19
77	2.1.03.06.iii		DCD19
78	2.1.03.07.i		DCD19
79	2.1.03.07.ii		DCD19
80	2.1.03.08		DCD19
81	2.1.03.09a.i		DCD19
82	2.1.03.09a.ii		DCD19
83	2.1.03.09b		DCD19
84	2.1.03.09c		DCD19
85	2.1.03.10		DCD19
86	2.1.03.11		DCD19
87	2.1.03.12		DCD19
88	2.1.03.13	Containment System	DCD19
89	2.1.03.14		DCD19
90	2.2.01.01		DCD19
91	2.2.01.02a		DCD19
92	2.2.01.02b		DCD19
93	2.2.01.03a		DCD19
94	2.2.01.03b		DCD19
95	2.2.01.04a.i		DCD19
96	2.2.01.04a.ii		DCD19
97	2.2.01.04b		DCD19
98	2.2.01.05.i		DCD19
99	2.2.01.05.ii		DCD19
100	2.2.01.05.iii		DCD19
101	2.2.01.06a.i		DCD19
102	2.2.01.06a.ii		DCD19
103	2.2.01.06b		DCD19
104	2.2.01.06c		DCD19
105	2.2.01.06d.i		DCD19
106	2.2.01.06d.ii		DCD19
107	2.2.01.07.i		DCD19
108	2.2.01.07.ii		DCD19
109	2.2.01.08		DCD19
110	2.2.01.09		DCD19
111	2.2.01.10a		DCD19
112	2.2.01.10b		DCD19
113	2.2.01.10c		DCD19
114	2.2.01.11a.i		DCD19
115	2.2.01.11a.ii		DCD19
116	2.2.01.11a.iii		DCD19
117	2.2.01.11a.iv		DCD19
118	2.2.01.11b	Passive Containment Cooling System	DCD19
119	2.2.02.01		DCD19
120	2.2.02.02a		DCD19
121	2.2.02.02b		DCD19
122	2.2.02.03a		DCD19
123	2.2.02.03b		DCD19
124	2.2.02.04a		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
125	2.2.02.04b	Passive Containment Cooling System (cont'd)	DCD19
126	2.2.02.05a.i		DCD19
127	2.2.02.05a.ii		DCD19
128	2.2.02.05a.iii		DCD19
129	2.2.02.05b		DCD19
130	2.2.02.05c		DCD19
131	2.2.02.06a.i		DCD19
132	2.2.02.06a.ii		DCD19
133	2.2.02.06b		DCD19
134	2.2.02.06c		DCD19
135	2.2.02.07a.i		DCD19
136	2.2.02.07a.ii		DCD19
137	2.2.02.07a.iii		DCD19
138	2.2.02.07b.i		DCD19
139	2.2.02.07b.ii		DCD19
140	2.2.02.07b.iii		DCD19
141	2.2.02.07c		DCD19
142	2.2.02.07d		DCD19
143	2.2.02.07e.i		DCD19
144	2.2.02.07e.ii		DCD19
145	2.2.02.07f.i		DCD19
146	2.2.02.07f.ii		DCD19
147	2.2.02.08a		DCD19
148	2.2.02.08b		DCD19
149	2.2.02.08c		DCD19
150	2.2.02.09		DCD19
151	2.2.02.10a		DCD19
152	2.2.02.10b		DCD19
153	2.2.02.10c		DCD19
154	2.2.02.11a.i		DCD19
155	2.2.02.11a.ii		DCD19
156	2.2.02.11a.iii		DCD19
157	2.2.02.11b		DCD19
158	2.2.03.01	Passive Core Cooling System	DCD19
159	2.2.03.02a		DCD19
160	2.2.03.02b		DCD19
161	2.2.03.03a		DCD19
162	2.2.03.03b		DCD19
163	2.2.03.04a		DCD19
164	2.2.03.04b		DCD19
165	2.2.03.05a.i		DCD19
166	2.2.03.05a.ii		DCD19
167	2.2.03.05a.iii		DCD19
168	2.2.03.05b		DCD19
169	2.2.03.06		DCD19
170	2.2.03.07a.i		DCD19
171	2.2.03.07a.ii		DCD19
172	2.2.03.07b		DCD19
173	2.2.03.07c		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
174	2.2.03.08a	Passive Core Cooling System (cont'd)	DCD19
175	2.2.03.08b.01		DCD19
176	2.2.03.08b.02		DCD19
177	2.2.03.08c.i.01		DCD19
178	2.2.03.08c.i.02		DCD19
179	2.2.03.08c.i.03		DCD19
180	2.2.03.08c.i.04		DCD19
181	2.2.03.08c.ii		DCD19
182	2.2.03.08c.iii		DCD19
183	2.2.03.08c.iv.01		DCD19
184	2.2.03.08c.iv.02		DCD19
185	2.2.03.08c.iv.03		DCD19
186	2.2.03.08c.iv.04		DCD19
187	2.2.03.08c.v.01		DCD19
188	2.2.03.08c.v.02		DCD19
189	2.2.03.08c.vi.01		DCD19
190	2.2.03.08c.vi.02		DCD19
191	2.2.03.08c.vi.03		DCD19
192	2.2.03.08c.vii		DCD19
193	2.2.03.08c.viii		DCD19
194	2.2.03.08c.ix		DCD19
195	2.2.03.08c.x		DCD19
196	2.2.03.08c.xi		DCD19
197	2.2.03.08c.xii		DCD19
198	2.2.03.08c.xiii		DCD19
199	2.2.03.08c.xiv		DCD19
200	2.2.03.08d		DCD19
201	2.2.03.09a.i		DCD19
202	2.2.03.09a.ii		DCD19
203	2.2.03.09a.iii		DCD19
204	2.2.03.09b		DCD19
205	2.2.03.09c		DCD19
206	2.2.03.10		DCD19
207	2.2.03.11a.i		DCD19
208	2.2.03.11a.ii		DCD19
209	2.2.03.11b.i		DCD19
210	2.2.03.11b.ii		DCD19
211	2.2.03.11b.iii		DCD19
212	2.2.03.11c.i		DCD19
213	2.2.03.11c.ii		DCD19
214	2.2.03.12a.i		DCD19
215	2.2.03.12a.ii		DCD19
216	2.2.03.12a.iv		DCD19
217	2.2.03.12b		DCD19
218	2.2.03.13		DCD19
219	2.2.04.01	Steam Generator System	DCD19
220	2.2.04.02a		DCD19
221	2.2.04.02b		DCD19
222	2.2.04.03a		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
223	2.2.04.03b	Steam Generator System (cont'd)	DCD19
224	2.2.04.04a		DCD19
225	2.2.04.04b		DCD19
226	2.2.04.05a.i		DCD19
227	2.2.04.05a.ii		DCD19
228	2.2.04.05a.iii		DCD19
229	2.2.04.05b		DCD19
230	2.2.04.06		DCD19
231	2.2.04.07a.i		DCD19
232	2.2.04.07a.ii		DCD19
233	2.2.04.07b		DCD19
234	2.2.04.07c		DCD19
235	2.2.04.08a.i		DCD19
236	2.2.04.08a.ii		DCD19
237	2.2.04.08b.i		DCD19
238	2.2.04.08b.ii		DCD19
239	2.2.04.08c		DCD19
240	2.2.04.09a.i		DCD19
241	2.2.04.09a.ii		DCD19
242	2.2.04.09b.i		DCD19
243	2.2.04.09b.ii		DCD19
244	2.2.04.10		DCD19
245	2.2.04.11a		DCD19
246	2.2.04.11b.i		DCD19
247	2.2.04.11b.ii		DCD19
248	2.2.04.12a.i		DCD19
249	2.2.04.12a.ii		DCD19
250	2.2.04.12a.iii		DCD19
251	2.2.04.12b		DCD19
252	2.2.05.01	Main Control Room Emergency Habitability System	DCD19
253	2.2.05.02a		DCD19
254	2.2.05.02b		DCD19
255	2.2.05.03a		DCD19
256	2.2.05.03b		DCD19
257	2.2.05.04a		DCD19
258	2.2.05.04b		DCD19
259	2.2.05.05a.i		DCD19
260	2.2.05.05a.ii		DCD19
261	2.2.05.05a.iii		DCD19
262	2.2.05.05b		DCD19
263	2.2.05.06a		DCD19
264	2.2.05.06b		DCD19
265	2.2.05.07a.i		DCD19
266	2.2.05.07a.ii		DCD19
267	2.2.05.07a.iii		DCD19
268	2.2.05.07b.i		DCD19
269	2.2.05.07b.ii		DCD19
270	2.2.05.07c		DCD19
271	2.2.05.07d		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
272	C.2.2.05.07e	Main Control Room Emergency Habitability System (cont'd)	COL8
273	2.2.05.08		DCD19
274	2.2.05.09a		DCD19
275	2.2.05.09b		DCD19
276	2.2.05.10		DCD19
277	2.2.05.11		DCD19
278	2.2.05.12		DCD19
279	2.3.01.01	Component Cooling Water System	DCD19
280	2.3.01.02		DCD19
281	2.3.01.03.i		DCD19
282	2.3.01.03.ii		DCD19
283	2.3.01.04		DCD19
284	2.3.01.05		DCD19
285	2.3.02.01	Chemical and Volume Control System	DCD19
286	2.3.02.02a		DCD19
287	2.3.02.02b		DCD19
288	2.3.02.03a		DCD19
289	2.3.02.03b		DCD19
290	2.3.02.04a		DCD19
291	2.3.02.04b		DCD19
292	2.3.02.05.i		DCD19
293	2.3.02.05.ii		DCD19
294	2.3.02.05.iii		DCD19
295	2.3.02.06a.i		DCD19
296	2.3.02.06a.ii		DCD19
297	2.3.02.06b		DCD19
298	2.3.02.06c		DCD19
299	2.3.02.07a		DCD19
300	2.3.02.07b		DCD19
301	2.3.02.07c		DCD19
302	2.3.02.08a.i		DCD19
303	2.3.02.08a.ii		DCD19
304	2.3.02.08a.iii		DCD19
305	2.3.02.08b		DCD19
306	2.3.02.09		DCD19
307	2.3.02.10a		DCD19
308	2.3.02.10b.i		DCD19
309	2.3.02.10b.ii		DCD19
310	2.3.02.11a.i		DCD19
311	2.3.02.11a.ii		DCD19
312	2.3.02.11a.iii		DCD19
313	2.3.02.11a.iv		DCD19
314	2.3.02.11b		DCD19
315	2.3.02.12a		DCD19
316	2.3.02.12b		DCD19
317	2.3.02.13		DCD19
318	2.3.02.14		DCD19
319	2.3.03.01	Standby Diesel Fuel Oil System	DCD19
320	2.3.03.02		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
321	2.3.03.03a	Standby Diesel Fuel Oil System (cont'd)	DCD19
322	2.3.03.03b		DCD19
323	2.3.03.03c		DCD19
324	2.3.03.03d		DCD19
325	2.3.03.04		DCD19
326	2.3.03.05		DCD19
327	2.3.04.01	Fire Protection System	DCD19
328	2.3.04.02.i		DCD19
329	2.3.04.02.ii		DCD19
330	2.3.04.03		DCD19
331	2.3.04.04.i		DCD19
332	2.3.04.04.ii		DCD19
333	2.3.04.05		DCD19
334	2.3.04.06		DCD19
335	2.3.04.07		DCD19
336	2.3.04.08		DCD19
337	2.3.04.09		DCD19
338	2.3.04.10		DCD19
339	2.3.04.11		DCD19
340	2.3.05.01	Mechanical Handling System	DCD19
341	2.3.05.02.i		DCD19
342	2.3.05.02.ii		DCD19
343	2.3.05.02.iii		DCD19
344	2.3.05.03a.i		DCD19
345	2.3.05.03a.ii		DCD19
346	2.3.05.03a.iii		DCD19
347	2.3.05.03b.i		DCD19
348	2.3.05.03b.ii		DCD19
349	2.3.05.03b.iii		DCD19
350	2.3.05.03c.i		DCD19
351	2.3.05.03c.ii		DCD19
352	2.3.05.03d.i		DCD19
353	2.3.05.03d.ii		DCD19
354	2.3.05.04		DCD19
355	2.3.06.01	Normal Residual Heat Removal System	DCD19
356	2.3.06.02a		DCD19
357	2.3.06.02b		DCD19
358	2.3.06.03a		DCD19
359	2.3.06.03b		DCD19
360	2.3.06.04a		DCD19
361	2.3.06.04b		DCD19
362	2.3.06.05a.i		DCD19
363	2.3.06.05a.ii		DCD19
364	2.3.06.05a.iii		DCD19
365	2.3.06.05b		DCD19
366	2.3.06.06		DCD19
367	2.3.06.07a.i		DCD19
368	2.3.06.07a.ii		DCD19
369	2.3.06.07b		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
370	2.3.06.07c	Normal Residual Heat Removal System (cont'd)	DCD19
371	2.3.06.08a		DCD19
372	2.3.06.08b		DCD19
373	2.3.06.09a.i		DCD19
374	2.3.06.09a.ii		DCD19
375	2.3.06.09b.i		DCD19
376	2.3.06.09b.ii		DCD19
377	2.3.06.09b.iii		DCD19
378	2.3.06.09b.iv		DCD19
379	2.3.06.09b.v		DCD19
380	2.3.06.09c		DCD19
381	2.3.06.09d		DCD19
382	2.3.06.10		DCD19
383	2.3.06.11a		DCD19
384	2.3.06.11b		DCD19
385	2.3.06.12a.i		DCD19
386	2.3.06.12a.ii		DCD19
387	2.3.06.12a.iii		DCD19
388	2.3.06.12a.iv		DCD19
389	2.3.06.12b		DCD19
390	2.3.06.13		DCD19
391	2.3.06.14		DCD19
392	2.3.07.01	Spent Fuel Pool Cooling System	DCD19
393	2.3.07.02a		DCD19
394	2.3.07.02b		DCD19
395	2.3.07.03		DCD19
396	2.3.07.04		DCD19
397	2.3.07.05.i		DCD19
398	2.3.07.05.ii		DCD19
399	2.3.07.05.iii		DCD19
400	2.3.07.06a		DCD19
401	2.3.07.06b		DCD19
402	2.3.07.07a		DCD19
403	2.3.07.07b.i		DCD19
404	2.3.07.07b.ii		DCD19
405	2.3.07.07b.iii		DCD19
406	2.3.07.07b.iv		DCD19
407	2.3.07.07b.v		DCD19
408	2.3.07.07b.vi		DCD19
409	2.3.07.07c		DCD19
410	2.3.07.08.i		DCD19
411	2.3.07.08.ii		DCD19
412	2.3.07.09		DCD19
413	2.3.07.10		DCD19
414	2.3.07.11		DCD19
415	2.3.08.01	Service Water System	DCD19
416	2.3.08.02.i		DCD19
417	2.3.08.02.ii		DCD19
418	2.3.08.02.iii		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
419	2.3.08.03		DCD19
420	2.3.08.04		DCD19
421	2.3.09.01	Containment Hydrogen Control System	DCD19
422	2.3.09.02a		DCD19
423	2.3.09.02b		DCD19
424	2.3.09.03.i		DCD19
425	2.3.09.03.ii		DCD19
426	C.2.3.09.03.iii		COL8
427	2.3.09.03.iv		DCD19
428	2.3.09.04a		DCD19
429	2.3.09.04b		DCD19
430	2.3.09.05		DCD19
431	2.3.10.01	Liquid Radwaste System	DCD19
432	2.3.10.02a		DCD19
433	2.3.10.02b		DCD19
434	2.3.10.03a		DCD19
435	2.3.10.03b		DCD19
436	2.3.10.04a		DCD19
437	2.3.10.04b		DCD19
438	2.3.10.05a.i		DCD19
439	2.3.10.05a.ii		DCD19
440	2.3.10.05a.iii		DCD19
441	2.3.10.05b		DCD19
442	2.3.10.06a		DCD19
443	2.3.10.06b		DCD19
444	2.3.10.07a.i		DCD19
445	2.3.10.07a.ii		DCD19
446	2.3.10.07b		DCD19
447	2.3.10.08		DCD19
448	2.3.10.09		DCD19
449	2.3.10.10		DCD19
450	2.3.11.01	Gaseous Radwaste System	DCD19
451	2.3.11.02.i		DCD19
452	2.3.11.02.ii		DCD19
453	2.3.11.02.iii		DCD19
454	2.3.11.03a		DCD19
455	2.3.11.03b		DCD19
456	2.3.11.03c		DCD19
457	2.3.12.01	Solid Radwaste System	DCD19
458	2.3.12.02		DCD19
459	2.3.13.01	Primary Sampling System	DCD19
460	2.3.13.02		DCD19
461	2.3.13.03		DCD19
462	2.3.13.04		DCD19
463	2.3.13.05.i		DCD19
464	2.3.13.05.ii		DCD19
465	2.3.13.05.iii		DCD19
466	2.3.13.06a.i		DCD19
467	2.3.13.06a.ii		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
468	2.3.13.06b	Primary Sampling System (cont'd)	DCD19
469	2.3.13.06c		DCD19
470	2.3.13.07		DCD19
471	2.3.13.08		DCD19
472	2.3.13.09		DCD19
473	2.3.13.10a		DCD19
474	2.3.13.10b		DCD19
475	2.3.13.11a		DCD19
476	2.3.13.11b		DCD19
477	2.3.13.12		DCD19
478	2.3.14.01	Demineralized Water Transfer and Storage System	DCD19
479	2.3.14.02		DCD19
480	2.3.14.03		DCD19
481	2.3.14.04		DCD19
482	2.3.15.01	Compressed and Instrument Air System	DCD19
483	2.3.15.02		DCD19
484	2.3.15.03		DCD19
485	2.3.19.01a	Communication System	DCD19
486	2.3.19.01b		DCD19
487	2.3.19.02a		DCD19
488	2.3.19.02b		DCD19
489	2.3.29.01	Radioactive Waste Drain System	DCD19
490	2.3.29.02		DCD19
491	2.3.29.03		DCD19
492	2.3.29.04		DCD19
493	2.4.01.01	Main and Startup Feedwater System	DCD19
494	2.4.01.02		DCD19
495	2.4.01.03		DCD19
496	2.4.01.04		DCD19
497	2.4.02.01	Main Turbine System	DCD19
498	2.4.02.02a		DCD19
499	2.4.02.02b		DCD19
500	2.4.02.02c		DCD19
501	2.4.02.03.i		DCD19
502	2.4.02.03.ii		DCD19
503	2.4.02.03.iii		DCD19
504	2.4.06.01	Condensate System	DCD19
505	2.4.06.02		DCD19
506	2.5.01.01	Diverse Actuation System	DCD19
507	2.5.01.02a		DCD19
508	2.5.01.02b		DCD19
509	2.5.01.02c.i		DCD19
510	2.5.01.02c.ii		DCD19
511	2.5.01.02d		DCD19
512	2.5.01.03a		DCD19
513	2.5.01.03b		DCD19
514	2.5.01.03c		DCD19
515	2.5.01.03d		DCD19
516	2.5.01.03e		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
517	2.5.01.03f	Diverse Actuation System (cont'd)	DCD19
518	2.5.01.03g		DCD19
519	2.5.01.03h		DCD19
520	2.5.01.04		DCD19
521	2.5.01.05		DCD19
522	2.5.02.01	Protection and Safety Monitoring System	DCD19
523	2.5.02.02.i		DCD19
524	2.5.02.02.ii		DCD19
525	2.5.02.02.iii		DCD19
526	2.5.02.03		DCD19
527	2.5.02.04		DCD19
528	2.5.02.05a		DCD19
529	2.5.02.05b		DCD19
530	2.5.02.06a.i		DCD19
531	2.5.02.06a.ii		DCD19
532	2.5.02.06b		DCD19
533	2.5.02.06c.i		DCD19
534	2.5.02.06c.ii		DCD19
535	2.5.02.07a		DCD19
536	2.5.02.07b		DCD19
537	2.5.02.07c		DCD19
538	2.5.02.07d		DCD19
539	2.5.02.07e		DCD19
540	2.5.02.08a.i		DCD19
541	2.5.02.08a.ii		DCD19
542	2.5.02.08a.iii		DCD19
543	2.5.02.08b.i		DCD19
544	2.5.02.08b.ii		DCD19
545	2.5.02.08c		DCD19
546	2.5.02.09a		DCD19
547	2.5.02.09b		DCD19
548	2.5.02.09c		DCD19
549	2.5.02.09d		DCD19
550	2.5.02.10		DCD19
551	2.5.02.11		DCD19
552	2.5.02.12		DCD19
553	2.5.02.13		DCD19
554	2.5.02.14		DCD19
555	2.5.03.01	Plant Control System	DCD19
556	2.5.03.02		DCD19
557	2.5.04.01	Data Display and Processing System	DCD19
558	2.5.04.02.i		DCD19
559	2.5.04.02.ii		DCD19
560	2.5.04.02.iii		DCD19
561	2.5.04.03		DCD19
562	C.2.5.04.04a		COL8
563	C.2.5.04.04b		COL8
564	C.2.5.04.04c		COL8
565	2.5.05.01	In-Core Instrumentation System	DCD19

No.	ITAAC No.	Plant System ITAAC	Source
566	2.5.05.02.i	In-Core Instrumentation System (cont'd)	DCD19
567	2.5.05.02.ii		DCD19
568	2.5.05.02.iii		DCD19
569	2.5.05.03a.i		DCD19
570	2.5.05.03a.ii		DCD19
571	2.5.05.03b		DCD19
572	2.5.05.03c		DCD19
573	2.5.05.04		DCD19
574	2.5.06.01	Special Monitoring System	DCD19
575	2.5.06.02		DCD19
576	2.5.09.01	Seismic Monitoring System	DCD19
577	2.5.09.02		DCD19
578	2.5.09.03		DCD19
579	2.6.01.01	Main AC Power System	DCD19
580	2.6.01.02.i		DCD19
581	2.6.01.02.ii		DCD19
582	2.6.01.02.iii		DCD19
583	2.6.01.03a		DCD19
584	2.6.01.03b		DCD19
585	2.6.01.04a		DCD19
586	2.6.01.04b		DCD19
587	2.6.01.04c		DCD19
588	2.6.01.04d		DCD19
589	2.6.01.04e		DCD19
590	2.6.01.04f		DCD19
591	2.6.01.05		DCD19
592	2.6.01.06		DCD19
593	2.6.02.01	Non-Class 1E DC & Uninterruptible Power Supply System	DCD19
594	2.6.02.02a		DCD19
595	2.6.02.02b		DCD19
596	2.6.02.02c		DCD19
597	2.6.03.01	Class 1E DC & Uninterruptible Power Supply System	DCD19
598	2.6.03.02.i		DCD19
599	2.6.03.02.ii		DCD19
600	2.6.03.02.iii		DCD19
601	2.6.03.03		DCD19
602	2.6.03.04a		DCD19
603	2.6.03.04b		DCD19
604	2.6.03.04c		DCD19
605	2.6.03.04d		DCD19
606	2.6.03.04e		DCD19
607	2.6.03.04f		DCD19
608	2.6.03.04g		DCD19
609	2.6.03.04h		DCD19
610	2.6.03.04i		DCD19
611	2.6.03.05a		DCD19
612	2.6.03.05b		DCD19
613	2.6.03.05c		DCD19
614	2.6.03.05d.i		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
615	2.6.03.05d.ii	Class 1E DC & Uninterruptible Power Supply System (cont'd)	DCD19
616	2.6.03.06		DCD19
617	2.6.03.07		DCD19
618	2.6.03.08		DCD19
619	2.6.03.09		DCD19
620	2.6.03.10		DCD19
621	2.6.03.11		DCD19
622	2.6.04.01	Onsite Standby Power System	DCD19
623	2.6.04.02a		DCD19
624	2.6.04.02b		DCD19
625	2.6.04.02c		DCD19
626	2.6.04.03		DCD19
627	2.6.04.04		DCD19
628	2.6.05.01	Lighting System	DCD19
629	2.6.05.02.i		DCD19
630	2.6.05.02.ii		DCD19
631	2.6.05.03.i		DCD19
632	2.6.05.03.ii		DCD19
633	2.6.05.04		DCD19
634	2.6.05.05.i		DCD19
635	2.6.05.05.ii		DCD19
636	2.6.05.06.i		DCD19
637	2.6.05.06.ii		DCD19
638	2.6.06.01.i	Grounding and Lightning Protection System	DCD19
639	2.6.06.01.ii		DCD19
640	2.6.06.01.iii		DCD19
641	2.6.06.01.iv		DCD19
642	2.6.09.01	Plant Security System	DCD19
643	2.6.09.03		DCD19
644	2.6.09.04		DCD19
645	2.6.09.05a		DCD19
646	2.6.09.05b		DCD19
647	2.6.09.05c		DCD19
648	2.6.09.06		DCD19
649	2.6.09.07a		DCD19
650	2.6.09.07b		DCD19
651	2.6.09.08		DCD19
652	2.6.09.09		DCD19
653	2.6.09.13a		DCD19
654	2.6.09.13b		DCD19
655	2.6.09.13c		DCD19
656	2.6.09.15a		DCD19
657	2.6.09.15b		DCD19
658	2.6.09.16		DCD19
659	C.2.6.09.01	Physical Security	COL8
660	C.2.6.09.02		COL8
661	C.2.6.09.03a		COL8
662	C.2.6.09.03b		COL8
663	C.2.6.09.04a		COL8

No.	ITAAC No.	Plant System ITAAC	Source
664	C.2.6.09.04b	Physical Security (cont'd)	COL8
665	C.2.6.09.05a		COL8
666	C.2.6.09.05b		COL8
667	C.2.6.09.06		COL8
668	C.2.6.09.07		COL8
669	C.2.6.09.08a		COL8
670	C.2.6.09.08b		COL8
671	C.2.6.09.09		COL8
672	C.2.6.12.01	Offsite Power System	COL8
673	C.2.6.12.02		COL8
674	C.2.6.12.03		COL8
675	C.2.6.12.04		COL8
676	C.2.6.12.05		COL8
677	C.2.6.12.06		COL8
678	C.2.6.12.07i		COL8
679	C.2.6.12.07ii		COL8
680	2.7.01.01	Nuclear Island Nonradioactive Ventilation System	DCD19
681	2.7.01.02a		DCD19
682	2.7.01.02b		DCD19
683	2.7.01.03a		DCD19
684	2.7.01.03b		DCD19
685	2.7.01.04a		DCD19
686	2.7.01.04b		DCD19
687	2.7.01.05.i		DCD19
688	2.7.01.05.ii		DCD19
689	2.7.01.05.iii		DCD19
690	2.7.01.06a		DCD19
691	2.7.01.06b		DCD19
692	2.7.01.07		DCD19
693	2.7.01.08a		DCD19
694	2.7.01.08b		DCD19
695	2.7.01.08c		DCD19
696	2.7.01.08d		DCD19
697	2.7.01.09		DCD19
698	2.7.01.10a		DCD19
699	2.7.01.10b		DCD19
700	2.7.01.11		DCD19
701	2.7.01.12		DCD19
702	2.7.01.13		DCD19
703	2.7.01.14		DCD19
704	2.7.02.01	Central Chilled Water System	DCD19
705	2.7.02.02		DCD19
706	2.7.02.03a		DCD19
707	2.7.02.03b		DCD19
708	2.7.02.04		DCD19
709	2.7.02.05		DCD19
710	2.7.03.01	Annex/Auxiliary Building Nonradioactive Ventilation System	DCD19
711	2.7.03.02a		DCD19
712	2.7.03.02b		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
713	2.7.03.03		DCD19
714	2.7.03.04		DCD19
715	2.7.04.01	Diesel Generator Building Ventilation System	DCD19
716	2.7.04.02a		DCD19
717	2.7.04.02b		DCD19
718	2.7.04.02c		DCD19
719	2.7.04.03		DCD19
720	2.7.04.04		DCD19
721	2.7.05.01	Radiologically Controlled Area Ventilation System	DCD19
722	2.7.05.02.i		DCD19
723	2.7.05.02.ii		DCD19
724	2.7.05.02.iii		DCD19
725	2.7.05.03		DCD19
726	2.7.06.01	Containment Air Filtration System	DCD19
727	2.7.06.02.i		DCD19
728	2.7.06.02.ii		DCD19
729	2.7.06.03.i		DCD19
730	2.7.06.03.ii		DCD19
731	2.7.06.03.iii		DCD19
732	2.7.06.04		DCD19
733	2.7.06.05		DCD19
734	2.7.07.01	Containment Recirculation Cooling System	DCD19
735	2.7.07.02		DCD19
736	3.1.00.01	Emergency Response Facilities	DCD19
737	3.1.00.02		DCD19
738	3.1.00.03		DCD19
739	3.1.00.04		DCD19
740	3.1.00.05		DCD19
741	3.1.00.06		DCD19
742	3.2.00.01a	Human Factors Engineering	DCD19
743	3.2.00.01b		DCD19
744	3.2.00.01c.i		DCD19
745	3.2.00.01c.ii		DCD19
746	3.2.00.01d		DCD19
747	3.2.00.01e		DCD19
748	3.2.00.02		DCD19
749	3.2.00.03.i		DCD19
750	3.2.00.03.ii		DCD19
751	3.2.00.03.iii		DCD19
752	3.2.00.03.iv		DCD19
753	3.2.00.03.v		DCD19
754	3.2.00.04		DCD19
755	3.2.00.05		DCD19
756	3.2.00.06.i		DCD19
757	3.2.00.06.ii		DCD19
758	3.2.00.06.iii		DCD19
7589	3.2.00.07		DCD19
760	3.2.00.08		DCD19
761	3.2.00.09		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
762	3.3.00.01	Buildings	DCD19
763	3.3.00.02a.i.a		DCD19
764	3.3.00.02a.i.b	Buildings (cont'd)	DCD19
765	3.3.00.02a.i.c		DCD19
766	3.3.00.02a.i.d		DCD19
767	3.3.00.02a.ii.a		DCD19
768	3.3.00.02a.ii.b		DCD19
769	3.3.00.02a.ii.c		DCD19
770	3.3.00.02a.ii.d		DCD19
771	3.3.00.02a.ii.e		DCD19
772	3.3.00.02a.ii.f		DCD19
773	3.3.00.02b		DCD19
774	3.3.00.02c		DCD19
775	3.3.00.02d		DCD19
776	3.3.00.02e		DCD19
777	3.3.00.02f		DCD19
778	3.3.00.02g		DCD19
779	3.3.00.02h		DCD19
780	3.3.00.03a		DCD19
781	3.3.00.03b		DCD19
782	3.3.00.03c		DCD19
783	3.3.00.03d		DCD19
784	3.3.00.04a		DCD19
785	3.3.00.04b		DCD19
786	3.3.00.04c		DCD19
787	3.3.00.05a		DCD19
788	3.3.00.05b		DCD19
789	3.3.00.05c		DCD19
790	3.3.00.06a		DCD19
791	3.3.00.06b		DCD19
792	3.3.00.07aa		DCD19
793	3.3.00.07ab		DCD19
794	3.3.00.07ac		DCD19
795	3.3.00.07ba		DCD19
796	3.3.00.07bb		DCD19
797	3.3.00.07bc		DCD19
798	3.3.00.07c.i.a		DCD19
799	3.3.00.07c.i.b		DCD19
800	3.3.00.07c.ii.a		DCD19
801	3.3.00.07c.ii.b		DCD19
802	3.3.00.07d.i		DCD19
803	3.3.00.07d.ii.a		DCD19
804	3.3.00.07d.ii.b		DCD19
805	3.3.00.07d.ii.c		DCD19
806	3.3.00.07d.iii.a		DCD19
807	3.3.00.07d.iii.b		DCD19
808	3.3.00.07d.iii.c		DCD19
809	3.3.00.07d.iv.a		DCD19
810	3.3.00.07d.iv.b		DCD19

No.	ITAAC No.	Plant System ITAAC	Source
811	3.3.00.07d.iv.c	Buildings (cont'd)	DCD19
812	3.3.00.07d.v.a		DCD19
813	3.3.00.07d.v.b		DCD19
814	3.3.00.07d.v.c		DCD19
815	3.3.00.07e		DCD19
816	3.3.00.08		DCD19
817	3.3.00.09		DCD19
818	3.3.00.10.i		DCD19
819	3.3.00.10.ii		DCD19
820	3.3.00.10.iii		DCD19
821	3.3.00.12		DCD19
822	3.3.00.13		DCD19
823	3.3.00.14		DCD19
824	3.3.00.16		DCD19
825	3.3.00.17		DCD19
826	3.5.00.01.i	Radiation Monitoring	DCD19
827	3.5.00.01.ii		DCD19
828	3.5.00.01.iii		DCD19
829	3.5.00.02.i		DCD19
830	3.5.00.02.ii		DCD19
831	3.5.00.03		DCD19
832	3.5.00.04		DCD19
833	3.5.00.05		DCD19
834	3.5.00.06		DCD19
835	3.5.00.07		DCD19
836	3.5.00.08		DCD19
837	3.6.00.01.i	Reactor Coolant Pressure Boundary Leak Detection System	DCD19
838	3.6.00.01.ii		DCD19
839	3.6.00.01.iii		DCD19
840	3.6.00.01.iv		DCD19
841	3.6.00.01.v		DCD19
842	3.6.00.01.vi		DCD19
843	3.6.00.01.vii		DCD19
844	3.7.00.01	Design Reliability Assurance Program	DCD19
845	C.3.8.01.01.01	Emergency Planning - Emergency Classification System	COL8
846	C.3.8.01.01.02		COL8
847	C.3.8.01.02.01	Emergency Planning - Notification Methods and Procedure	COL8
848	C.3.8.01.02.02		COL8
849	C.3.8.01.02.03		COL8
850	C.3.8.01.03.01	Emergency Planning - Emergency Communications	COL8
851	C.3.8.01.03.02		COL8
852	C.3.8.01.04.01	Emergency Planning - Public Education and Information	COL8
853	C.3.8.01.05.01.01	Emergency Planning - Emergency Facilities and Equipment	COL8
854	C.3.8.01.05.01.02		COL8
855	C.3.8.01.05.01.03		COL8
856	C.3.8.01.05.01.04		COL8
857	C.3.8.01.05.01.05		COL8
858	C.3.8.01.05.01.06		COL8
859	C.3.8.01.05.01.07		COL8

No.	ITAAC No.	Plant System ITAAC	Source
860	C.3.8.01.05.01.08	Emergency Planning - Emergency Facilities and Equipment (cont'd)	COL8
861	C.3.8.01.05.02.01		COL8
862	C.3.8.01.05.02.02		COL8
863	C.3.8.01.05.02.03		COL8
864	C.3.8.01.06.01	Emergency Planning - Accident Assessment	COL8
865	C.3.8.01.06.02		COL8
866	C.3.8.01.06.03		COL8
867	C.3.8.01.06.04		COL8
868	C.3.8.01.06.05		COL8
869	C.3.8.01.06.06		COL8
870	C.3.8.01.06.07		COL8
871	C.3.8.01.06.08		COL8
872	C.3.8.01.06.09		COL8
873	C.3.8.01.07.01	Emergency Planning - Protective Response	COL8
874	C.3.8.01.08.01.01	Emergency Planning - Exercises and Drills	COL8
875	C.3.8.01.08.01.02		COL8
876	C.3.8.01.08.01.03		COL8
877	C.3.8.01.09.01	Emergency Planning - Implementing Procedures	COL8
878	C.3.8.02.01	Pipe Rupture Hazard Analysis	COL8
879	C.3.8.03.01	Piping Design	COL8
880	C.3.8.04.01	Waterproof Membrane	COL8
881	C.3.8.05.01	Concrete Fill	COL8
882	C.3.8.05.02a		COL8
883	C.3.8.05.02b		COL8
884	C.3.8.06.01.i	Seismic Category I Structure Foundation Grouting	COL8
885	C.3.8.06.01.ii		COL8