

CALLAWAY
FSAR CHANGE NOTICE LOG

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
20-0017	Revises SP SEC 8.3.1.1.2 to reflect completion of MP 07-0069 for replacement of 480-V breakers in Class 1E load centers.	12/08/20	OL-24c 12/20	SP SEC 8.3.1.1.2		
20-0027	Revises SA 13.1.3.1.18 and 13.1.3.1.19 qualification requirements for Rad/Chem personnel to conform to ANSI/ANS 3.1-1978 regarding credit for experience in the specialties of Chemistry, RP, and Radwaste.	12/07/20	OL-24c 12/20	SA SEC 13.1.3.1.18 SA SEC 13.1.3.1.19		
20-0020	Revises SP FIG 6.2.4-1 to reflect implementation of MP 19-0004, "Replacement of KCV0478 with Nozzle Check Valve."	12/02/20	OL-24c 12/20			SP FIG 6.2.4-1
20-0008	Revises SP TBL 16.11-7 to eliminate non-food crop samples, Surface Water samples, and selected Groundwater samples from FSAR-SP Table 16.11-7.	12/01/20	OL-24c 12/20		SP TBL 16.11-7	
19-0018	Revises SA TBL 2.3-51B to reflect the implementation of RFR 160366, which approved changes to the manufacturer and model number of the meteorological tower relative humidity instruments.	10/16/20	OL-24c 12/20		SA TBL 2.3-51B	

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 2 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
18-0006	Revises SP SEC 10.4.8.1.2, 10.4.8.2.3, 10.4.8.3, & 11.5.2.2.3.1, and TBL 10.4-11, 11.5-2, 16.11-1, 16.11-2, & 16.11-3 in order to reflect retirement of steam generator blowdown liquid discharge monitor BMRE0052.	10/16/20	OL-24c 12/20	SP SEC 10.4.8.1.2 SP SEC 10.4.8.2.3 SP SEC 10.4.8.3 SP SEC 11.5.2.2.3.1	SP TBL 10.4-11 SP TBL 11.5-2 SP TBL 11.5-5 SP TBL 16.11-1 SP TBL 16.11-2 SP TBL 16.11-3	
20-0006	Revises the SA SEC 9.2.1.1.5 and SA SEC 10.4.5.5 descriptions of Circ and Service Water bay level instrumentation to reflect the installation of new instruments per modification MP 19-0085.	08/06/20	OL-24b 10/20	SA SEC 9.2.1.1.5 SA SEC 10.4.5.5		
20-0001	Revises SP SEC 8.3.2.2.1 to revise a commitment to Reg. Guide 1.32 regarding specified intervals for conduct of NK battery service tests, in order to allow application of the Surveillance Frequency Control Program (SFCP) to TS SR 3.8.4.7.	08/06/20	OL-24b 10/20	SP SEC 8.3.2.2.1		
20-0005	Revises SP SEC 9.1A.1.3 to remove an allowance for storage of fuel assemblies in the Spent Fuel Pool that conflicts with TS 4.3.1.1.	07/26/20	OL-24b 10/20	SP SEC 9.1A.1.3		
20-0015	Revises SP SEC 15.2.8.1 to document that the analyzed feedwater line break (FLB) location bounds all other FLB locations.	07/21/20	OL-24b 10/20	SP SEC 15.2.8.1		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 3 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
20-0011	Revises SP SEC 8.3.1.1.2 to remove an incorrect statement that the automatic load shedding and emergency load sequencers (LSELS) provides an interlock signal to ESF transformer load tap changers.	07/21/20	OL-24b 10/20	SP SEC 8.3.1.1.2		
20-0010	Revises SA SEC 8.2.1.3.2 to reflect that pneumatically-operated switchyard breakers have been replaced with spring-operated breakers under modification MP 17-0028.	07/21/20	OL-24b 10/20	SA SEC 8.2.1.3.2		
19-0021	Revises SP SEC 11.3.6 to reflect the changes to the design of the replacement waste gas recombiner gas analyzer instrumentation that was installed per MP 17-0008.	07/21/20	OL-24b 10/20	SP SEC 11.3.6		
19-0025	Revises SP SEC 9.1.3.2.3.2, 11.4.2.1, 11.4.2.3.1, 11.4.2.3.2, 11.4.2.3.4, 11.4.2.5, 11.4.3 and TBL 11.4-5 in order to reflect retirement of dry waste compactor and remote filter handling equipment.	02/12/20	OL-24b 10/20	SP SEC 9.1.3.2.3.2 SP SEC 11.4.2.1 SP SEC 11.4.2.3.1 SP SEC 11.4.2.3.2 SP SEC 11.4.2.3.4 SP SEC 11.4.2.5 SP SEC 11.4.3	SP TBL 11.4-5	

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 4 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
18-0007	Revises SP APP 3A, SP SEC 19.1.10, 19.1.14, 19.1.16, and 19.1.23, and SP TBL 19.1-1 and 19.4-1 to reflect a implementation of a commitment to Reg. Guide 1.54 Rev. 2 and LR-ISG-2013-01 regarding inspection and testing of protective coatings.	11/04/19	OL-24a 2/20	SP APP 3A SP SEC 19.1.10 SP SEC 19.1.14 SP SEC 19.1.16 SP SEC 19.1.23	SP TBL 19.1-1 SP TBL 19.4-1	
19-0015	Revises SP TBL 6.2.1-3 to provide clarification that the given recirculation flow rate is nominal and not a minimum required value.	11/03/19	OL-24a 2/20		SP TBL 6.2.1-3	
19-0023	Revises SA SEC 9.2.5.2.2.1 and 9.2.5.5, and SA TBL 9.2-5 to address mitigation of a potential failure of automatic controls by manually operating UHS cooling tower bypass valves to control temperature.	11/07/19	OL-24 11/19	SP SEC 9.2.5.2.2.1 SA SEC 9.2.5.5	SP TBL 9.2-5	
19-0022	Revises SP SEC 9.2.1.2.2.2 and 9.2.1.2.2.3, SP TBL 9.2-5, 9.2-6, and 9.2-23, and adds a new Sheet 4 to SP FIG 9.2-2 to reflect modifications for ESW waterhammer mitigation per MP 17-0006.	11/07/19	OL-24 11/19	SP SEC 9.2.1.2.2.2 SP SEC 9.2.1.2.2.3	SP TBL 9.2-5 SP TBL 9.2-6 SP TBL 9.2-23	SP FIG 9.2-2

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 5 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
18-0012	Revises SP SEC 11.5.2.3.2.4 and 18.2.12.1, and SP TBL 7.5-1, 7A-2, 7A-3, and 11.5-3 to reflect a reduction of the credited range for Containment High Range Radiation Monitors in a post-accident environment, due to noise from thermally-induced currents causing inaccuracy in readings <25 R/hr.	11/04/19	OL-24 11/19	SP SEC 11.5.2.3.2.4 SP SEC 18.2.12.1	SP TBL 7.5-1 SP TBL 7A-2 SP TBL 7A-3 SP TBL 11.5-3	
19-0007	Revises SA Chapter 13 to reflect changes to the site organizational structure.	10/10/19	OL-24 11/19	SA SEC 13.1.1.2.1.2 SA SEC 13.1.1.3.2 SA SEC 13.1.2.2.2 SA SEC 13.1.2.2.3		SA FIG 13.1-1 SA FIG 13.1-2 SA FIG 13.1-3
19-0019	Corrects reference to a Table in SA SEC 2.3.3.1.3	10/09/19	OL-24 11/19	SA SEC 2.3.3.1.3		
19-0011	Revises SP SEC 9.3.3.5 in order to reflect a change in the high lever alarm setpoint for the Control Building sump per Modification MP 16-0039.	10/09/19	OL-24 11/19	SP SEC 9.3.3.5		
19-0003	Revises SP TBL 5.3-7 to add material properties for RV closure head bolting spares and SP SEC 9.1.4.2.2 to describe new manual rod cluster control change tool.	09/22/19	OL-23f 10/19	SP SEC 9.1.4.2.2	SP TBL 5.3-7	
18-0023	Revises SP SEC 19.1.25 and SP TBL 19.4-1 to reflect adoption of guidance from LS-ISG-2015-01 regarding buried and underground piping and tanks.	09/22/19	OL-23f 10/19	SP SEC 19.1.25	SP TBL 19.4-1	

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 6 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
19-0010	Removes a remark from SP TBL 3.2-1 regarding the non-safety aux feedwater pump having been built to ASME Section III Class 3.	08/20/19	OL-23f 10/19		SP TBL 3.2-1	
19-0006	Revises SA TBL 12.5-2 to change the type of detector used for workspace airborne radioactivity monitoring.	08/20/19	OL-23f 10/19		SA TBL 12-5-2	
19-0005	Revises SP SEC 9.1A.2.1 to remove allowances for fuel storage that do not conform to TS 4.3.1.1.	08/20/19	OL-23f 10/19	SP SEC 9.1A.2.1.1		
19-0002	Revises the FSAR in order to reflect installation of the new digital electrohydraulic controls for the main turbine generator per Modification MP 16-0039.	08/20/19	OL-23f 10/19	SP SEC 3.5.1.3.2 SP SEC 3.5.1.3.3 SP SEC 3.5.4 SP SEC 5.4.1.3.8 SP SEC 5.4.1.3.9 SP SEC 7.1.2.5.2 SP SEC 10.2.2.1 SP SEC 10.2.2.3.1 SP SEC 10.2.2.3.2 SP SEC 10.2.2.3.3 SP SEC 10.2.2.3.4 SP SEC 10.2.3.6 SP SEC 16.3.4.1 SP SEC 16.3.4.1.1 SP SEC 16.3.4.1.2	SP TBL 1.1-1 SP TBL 10.2-1	SP FIG 10.2-1

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 7 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
17-0012	Revises SP 8.3 and SA 8.2 in order to reflect the addition of protective relays to provide an alarm function for an open phase fault condition that were installed per Modification MP 15-0008.	07/16/19	OL-23e 7/19	SP SEC 8.3.1.1.2 SA SEC 8.2.1.3.2		
19-0008	Revises SA 9.2 and SA FIG 9.2-3 in order to reflect rerouting of the demineralized water system piping and removal of the associated turbidity meter per Modification MP 18-0060.	05/07/19	OL-23e 7/19	SA SEC 9.2.3.5		SA FIG 9.2-3
19-0004	Revises SP 9.4 and SP TBL 9.4-10 in order to reflect replacement of the EHC air conditioning (A/C) system and backup A/C system per Modification MP 16-0039.	04/30/19	OL-23e 7/19	SP SEC 9.4.4.2.1 SP SEC 9.4.4.2.2	SP TBL 9.4-10	
18-0014	Adds a new section SA 2.2.1.2.3.10 and revises the response to SA NRC Question 310.05 to describe a new tank for sodium hypochlorite being installed per MP 17-0037.	04/17/19	OL-23d 4/19	SA SEC 2.2.1.2.3 SA SEC 2.2.1.2.3.10 SA SEC NRC QR 310.05		
17-0009	Revises SP 18.8.2.1.1 and the commitments to Reg. Guides 1.9 and 1.108 in SP Appendix 3A and SP 8.1.4.3 to implement the Engineered Safety Features Actuation System (ESFAS) Surveillance Test Risk Documented Evaluation (STRIDE).	03/26/19	OL-23d 4/19	SP APP 3A SP SEC 8.1.4.3 SP SEC 16.8.2.1.1		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 8 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
16-0013	Revises SP 9.4.1 and 16.7.13.1 and SP Tables 3.2-1 and 9.4-4, and deletes SP 16.7.13.2 in order to support implementation of OL Amendment 219 for new TS 3.7.20, "Class 1E Electrical Equipment Air Conditioning (A/C) System."	04/30/19	OL-23d 4/19	SP SEC 9.4.1.1.2 SP SEC 9.4.1.2.2 SP SEC 9.4.1.2.3 SP SEC 16.7.13.1 SP SEC 16.7.13.1.1 SP SEC 16.7.13.1.2	SP TBL 3.2-1 SP TBL 9.4-4	
19-0001	Revise FSAR Chapter 16 to remove use of FSAR 16.0.2.2 for IST frequency extensions, as IST has its own provisions for frequency extensions.	02/27/19	OL-23c 3/19	SP SEC 16.1.2.3.1 SP SEC 16.1.2.4.2 SP SEC 16.1.2.4.1 SP SEC 16.1.2.4.2 SP SEC 16.4.1.1.1 SP SEC 16.4.1.1.2		
18-0020	Updates SP 8.3.1.4.1.1 and 9.5.2.2 to add descriptions of the plant Wi-Fi communication system.	02/11/19	OL-23c 3/19	SP SEC 8.3.1.4.1.1 SP SEC 9.5.2.2		
18-0008	Revises Mode of applicability for FSAR 16.7.10, "Emergency Exhaust System (EES) for Crane Operation Fuel Building."	02/11/19	OL-23c 3/19	SP SEC 16.7.10.1		
18-0024	Corrects formatting errors in FSAR-SP 16.24 and adds "16.24 ASME Inservice Inspection Program" to Chap 16 Table of Contents (TOC). Corrects title of Chap 16 in FSAR-SP TOC to read "Technical Requirements."	11/28/18	OL-23b 12/18	SP SEC 16.24 SP 16 TOC SP TOC		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 9 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
18-0019	Updates SA 2.2.1.1 and 2.2.1.2.1 to remove obsolete descriptions of military and manufacturing facilities.	11/29/18	OL-23b 12/18	SA SEC 2.2.1.1 SA SEC 2.2.1.2.1		
18-0018	Updates FSAR-SP Figure 6.2.4-1 Pages 13 and 16 to show correct configuration of ENV0084 and ENV0083.	09/13/18	OL-23b 12/18			SP FIG 6.2.4-1
18-0017	Revises FSAR-SP 8.3A.4.a to provide correct description of station blackout (SBO) procedures to implement NUMARC 87-00 Section 4.	08/30/18	OL-23b 12/18	SP APP 8.3A.4		
18-0016	Revises FSAR-SP 9.5.1.5.2 to specify professional membership grade in Society of Fire Prevention Engineers (SFPE) for Fire Protection Engineer qualifications.	09/13/18	OL-23b 12/18	SP SEC 9.5.1.5.2		
18-0011	Revises FSAR-SP 5.4A.2 and Table 7.1-2 to be consistent with FSAR-SP 7.4 by removing references to Spent Fuel Pool Cooling System as being Safe Shutdown Equipment.	12/03/18	OL-23b 12/18	SP APP 5.4A.2	SP TBL 7.1-2	
17-0017	Revises Site Addendum Section 12.5.2.1.2 to be consistent with Table 12.5-1 by removing reference to additional counting equipment.	09/28/17	OL-23a 8/18	SA SEC 12.5.2.1.2		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 10 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
17-0008	Replaces "OPERABLE" with "FUNCTIONAL" in the affected column heading for FSAR Table 16.11-5.	06/21/17	OL-23a 8/18		SP TBL 16.11-5	
16-0001	Changes FSAR-SP Appendix 3A and 8.3. to justify testing auxiliary feedwater valves with thermal overloads not jumpered, in accordance with Regulatory Position C.2 of Reg. Guide 1.106. (OL Amendment No. 218)	05/30/18	OL-23a 8/18	SP APP 3A SP SEC 8.3.1.1.2		
17-0016	Changes FSAR-SP Table 3.9B-16 to remove ABV0085 and ABV0087.	04/19/18	OL-22e 5/18		SP TBL 3.9B-16	
17-0003	FSAR change for potential VCT explosive atmosphere during shutdown for refueling.	10/05/17	OL-22e 5/18	SP SEC 5.4.11.2 SP SEC 9.1.4.2.3.1 SP SEC 9.3.4.2.1.2 SP SEC 9.3.5.2.1 SP SEC 11.2.2.2 SP SEC 11.3.2.3	SP TBL 9.3-11	SP FIG 9.3-10
17-0013	Replaces FSAR description of RCS letdown "orifices" with "throttle valves" as per Modification MP 14-0010.	05/08/18	OL-22e 5/18	SP SEC 5.2.2.10.4.1 SP SEC 5.2.5.2.3 SP SEC 7.4.3.1.1 SP SEC 7.7.1 SP SEC 9.3.4.2.1.1 SP SEC 9.3.4.2.2 SP SEC 9.3.4.2.3.1 SP SEC 9.3.4.2.3.3 SP SEC 9.3.4.5 SP SEC 15.6.2	SP TBL 3.2-1 SP TBL 7.4-1 SP TBL 9.3-9	SP FIG 3.6-1 (Sheet 25)

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 11 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
17-0014	Revises FSAR material description for condenser air removal system piping as per RFR 170058.	02/12/18	OL-22e 5/18		SP TBL 10.4-2	
17-0015	Revises FSAR description of RCS letdown flowrate during postulated letdown line rupture.	10/05/17	OL-22e 5/18	SP SEC 15.6.2		
18-0004	Replaces FSAR to reflect retraction of polar crane snubber wheels per Modification MP 16-0033.	04/19/18	OL-22e 5/18	SP SEC 9.1.4.2.2		
18-0005	Revises FSAR-SP Table 3.11(B)-1 and Table 3.11(B)-2 Notes regarding post-accident room temperatures.	04/10/18	OL-22e 5/18		SP TBL 3.11(B)-1 SP TBL 3.11(B)-2	
18-0001	Revises FSAR to reflect bypass of UHS cooling tower fan motor high-speed thermal overloads as per Modification MP 17-0012.	04/19/18	OL-22e 5/18	SP SEC 8.3.1.1.2		
18-0002	Revises FSAR to reflect organizational changes.	04/19/18	OL-22e 5/18	SA SEC 13.1.1.1.1 SA SEC 13.1.1.2.1 SA SEC 13.1.1.2.1.1 SA SEC 13.1.1.2.1.2 SA SEC 13.1.1.2.1.3 SA SEC 13.1.1.3 SA SEC 13.1.1.3.2 SA SEC 13.1.2.2 SA SEC 13.1.2.2.1.1 SA SEC 13.1.2.2.3 SA SEC 13.1.3.1 SA SEC 13.2.1		SA FIG 13.1-1 SA FIG 13.1-2 SA FIG 13.1-3

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 12 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
18-0003	Revises FSAR material description for safety-related room cooler coils to reflect Modification MP 07-0060. completion.	03/22/18	OL-22e 5/18		SP TBL 9.4-6 SP TBL 9.4-8	
16-0020	Revises FSAR description of self-contained breathing apparatus (SCBA) use in Control room.	03/07/17	OL-22e 5/18	SP SEC 6.4.2.4	SP TBL 6.4-2	
17-0001	Updates FSAR description of solid radwaste management practices.	03/07/17	OL-22e 5/18	SP SEC 11.4.1.1 SP SEC 11.4.1.2 SP SEC 11.4.2.2 SP SEC 11.4.2.3.1 SP SEC 11.4.2.3.2 SP SEC 11.4.2.3.3 SP SEC 11.4.2.4		
17-0002	Revises FSAR description of data communications for meteorological instruments for Modification MP 11-0002 FCN 04.	03/17/17	OL-22e 5/18	SA SEC 2.3.3.1.2 SA SEC 2.3.3.1.3 SA SEC 2.3.3.1.4.1		SA FIG 2.3-20
17-0004	Revises FSAR description of General Employee Training (GET).	06/21/17	OL-22e 5/18	SA SEC 13.2.1.2		
17-0005	Establishes separate FSAR Chapter 16 Technical Requirements for Class 1E electrical equipment air conditioning (A/C) systems under Operating and Shutdown conditions.	04/06/17	OL-22e 5/18	SP SEC 16.7.3.1 SP SEC 16.7.3.1.1 SP SEC 16.7.3.1.2 SP SEC 16.7.3.2 SP SEC 16.7.3.2.1 SP SEC 16.7.3.2.2		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 13 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
17-0006	Revises FSAR description of Annual Radioactive Effluent Release Report (ARERR). Format.	04/06/17	OL-22e 5/18	SP SEC 16.11.5.2		
17-0010	Revises FSAR description of flooding analysis (not a change to the method of analysis), updates analyzed flood levels, and adds a description of the floor and equipment drain system (FEDS) provisions for the boron injection tank (BIT) room.	06/27/17	OL-22e 5/18	SP SEC 3.6.2.2.1.3 SP SEC 9.3.3.2.1.1	SP TBL 3.6-6 SP TBL 3.11(B)-6	
17-0011	Revises FSAR description of switchyard for Modification MP 16-0021	06/04/17	OL-22e 5/18	SA SEC 8.2.1.3.2		
17-0018	Revises the maximum temperature in Class 1E equipment rooms during design basis accidents (DBAs).	02/22/18	OL-22d 02/18	SP SEC 9.4.1.2.3	SP TBL 3.11(B)-2 SP TBL 16.7-2	
17-0019	Revise FSAR description of Class 1E 120-V vital instrument AC power supplies to reflect change to design and operation resulting from installation of new swing inverters as implemented under MP 13-0020.	11/19/17	OL-22c 11/17	SP SEC 8.3.1 SP SEC 8.3.2 SP SEC 16.7.13 SP SEC NRC QR 420.1 SP SEC NRC QR 420.4	SP TBL 3.10(N)-1 SP TBL 8.3-1 SP TBL 8.3-4	
16-0011	Adopts the core design methodology from WCAP-10965-P-A, WCAP-16045-P-A, WCAP-16045-P-A-Addendum 1-A, and WCAP-11596-P-A to implement OL Amendment 217.	09/15/17	OL-22b 11/17	SP SEC 4.3.1.5 SP SEC 4.3.3.2 SP SEC 4.3.4	SP TBL 1.6-2 SP TBL 4.1-2	

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 14 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
15-0007	FSAR Chapter 16 terminology change from OPERABLE to FUNCTIONAL to match Tech Spec definitions	07/01/16	OL-22a 11/16	SP SEC 16.0 SP SEC 16.1.2. SP SEC 16.1.3 SP SEC 16.2.1 SP SEC 16.2.2 SP SEC 16.3.3 SP SEC 16.3.4 SP SEC 16.4.1 SP SEC 16.4.6 SP SEC 16.4.8 SP SEC 16.4.9 SP SEC 16.5.1 SP SEC 16.5.2 SP SEC 16.7.4 SP SEC 16.7.5 SP SEC 16.7.6 SP SEC 16.7.7 SP SEC 16.7.9 SP SEC 16.7.10 SP SEC 16.7.11 SP SEC 16.7.13 SP SEC 16.8.1 SP SEC 16.8.2	SP TBL 16.11-1 SP TBL 16.11-4 SP TBL 16.11-9 SP TBL 16.3-3 SP TBL 16.3-7 SP TBL 16.11-2 SP TBL 16.11-5	

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 15 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
15-0007 (cont.)				SP SEC 16.8.3 SP SEC 16.9.2 SP SEC 16.9.3 SP SEC 16.10.1 SP SEC 16.11.1 SP SEC 16.11.2 SP SEC 16.11.3 SP SEC 16.11.4 SP SEC 16.15		
16-0019	Update summary of flood levels to reflect revised calculations	11/10/16	OL-22 11/16		SP TBL 3.6-6 SP TBL 3.11(B)-6	
16-0018	Switchyard description updates for MP 16-0002, 345 kV breaker types	11/07/16	OL-22 11/16	SA SEC 8.2.1.3.1		
16-0017	Revise License Renewal Supplement due to 10 CFR 54.37b review	11/10/16	OL-22 11/16	SP SEC 19.1.16 SP SEC 19.1.23 SP SEC 19.3.6.2	SP TBL 19.4-1	
16-0016	Revise allowable room cooler tube material to match previous engineering evaluations	11/02/16	OL-22 11/16		SP TBL 9.4-6 SP TBL 9.4-8	
16-0015	EOF Feeder Cable Replacement	10/11/16	OL-22 11/16	SA SEC 8.3.1.1		
16-0014	Update description of Cycle 22 fuel assemblies	10/19/16	OL-22 11/16		SP TBL 4.3-1A	

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 16 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
16-0012	Organizational changes	10/11/16	OL-22 11/16	SA SEC 13.1.1 SA SEC 13.1.2.2.1 SA SEC 13.1.2.2.2 SA SEC 13.1.2.2.3 SA SEC 13.1.2.2.4 SA SEC 13.1.2.1.16		SA FIG 13.1-1 SA FIG 13.1-2 SA FIG 13.1-3
16-0008	Incorporate the Hardened Condensate Storage Tank (HCST) into FSAR	10/24/16	OL-22 11/16	SP SEC 1.2.2.1 SP SEC 7.3.6.1 SP SEC 9.2.6 SP SEC 9.2.6.2.1 SP SEC 9.2.6.2.2 SP SEC 9.2.6.2.3 SP SEC 9.2.6.5 SP SEC 10.4.9.2.1	SP TBL 1.1-1 SP TBL 3.2-1 SP TBL 9.2-14 SP TBL 9.3-11	SP FIG 8.3-1 SP FIG 9.2-17
16-0006	Update utility grid description and designate previous grid maps as historical information	08/03/16	OL-22 11/16	SA SEC 8.1.1		SA FIG 8.1-1

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 17 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
15-0012	Incorporate the ISFSI spent fuel storage facility into the FSAR	07/19/16	OL-22 11/16	SP SEC 1.2.2.1	SP TBL 1.1-1	SP FIG 1.2-20
				SP SEC 1.2.3	SP TBL 3.2-1	SP FIG 1.2-21
				SP SEC 1.2.9.3	SP TBL 3.3-1	SP FIG 1.2-22
				SP SEC 3.1.8	SP TBL 3.5-2	SP FIG 1.2-44
				SP SEC 3.8.4.1.2	SP TBL 9.2-20	SP FIG 1.2-45
				SP SEC 9.1.2	SP TBL 16.11-7	SP FIG 3.8-97
				SP SEC 9.1.2.1		SP FIG 3.8-98
				SP SEC 9.1.2.2		SP FIG 9.1-9
				SP SEC 9.1.4		SA FIG 2.1-3
				SP SEC 9.1.4.2.1		SA FIG 2.4-3
				SP SEC 9.1.4.2.3		
				SP SEC 9.1.4.2.3.1		
				SP SEC 9.1.4.3		
				SP SEC 9.1.4.6		
				SP SEC 9.1.6		
				SP SEC 9.5.1		
				SP SEC 9.5.1.1.1		
				SP SEC 9.5.1.2		
				SP SEC 9.5.1.3		
				SP SEC 12.2.1.3.1		
				SP SEC 12.2.1.7		
				SP SEC 12.3.2.2.3		
				SP SEC 12.3.2.2.9		
				SP SEC 12.4.2.1		
				SP SEC 15.7.4.1.1		
				SP SEC 16.11.5.2		
				SP SEC 16.11.5.2.1		
				SA SEC 2.4.2.3.2		
14-0012	Change wording for Hydrogen to VCT	10/19/16	OL-22 11/16	SP SEC 9.3.4.2		
				SP SEC 11.3.2.3		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 18 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
16-0010	Additional FSAR Changes for NFPA 805	07/01/16	OL-21e 8/16	SP SEC 9.5.1.1.5 SP QR 280 SP QR 730	SP TBL 16.12-1	
16-0009	Administrative corrections to Containment Penetration Figure	05/12/16	OL-21e 8/16			SP FIG 6.2.4-1
16-0007	Update Boration System Bases with correct RFR reference	05/17/16	OL-21e 8/16	SP SEC 16.1.2.1.2 SP SEC 16.1.2.1.3		
16-0005	Update the FSAR for the Hardened Storage Buidling MP 13-0031	03/11/16	OL-21e 8/16	SP SEC 1.2.2.1		
16-0004	EDG fuel oil tank venting wording in FSAR	05/06/16	OL-21e 8/16	SP SEC 9.5.4.2.2		
16-0003	Cold Lab Chiller Replacement	03/11/15	OL-21e 8/16		SP TBL 9.2-21	
15-0019	FSAR Chp. 15 Thermohydraulic Code Reference Updates	12/02/15	OL-21e 8/16	SP SEC 15.0.11.6 SP SEC 15.4.1.2		
15-0018	Reflect Status of Ex-Vessel Dosimetry	10/20/15	OL-21e 8/16	SP SEC 19.1.17		
15-0017	Revise description Emergency Lighting Systems to match NFPA 805 transition	11/18/15	OL-21e 8/16	SP SEC 9.5.3.2.3		
15-0016	Revise FSAR to remove inaccurate information about SFP Bridge Crane	10/20/15	OL-21e 8/16	SP SEC 9.1.4.2.2		
15-0015	Organizational Reporting Change for Fire Marshal	10/20/15	OL-21e 8/16	SA SEC 13.1.2.2.1.1		SA FIG 13.1-3

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 19 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
15-0014	Change to FSAR to remove 1 year onsite storage for rad waste	03/14/16	OL-21e 8/16	SP SEC 11.4.2.3.2 SP SEC 11.4.2.5		
15-0013	Revise FSAR SA 8.4 to allow local operation of AEPS	01/14/16	OL-21e 8/16	SA SEC 8.4.1		
15-0010	update SP Figure 6.2.4-1 Containment Penetrations with administrative changes	07/30/15	OL-21e 8/16		SP TBL 6.2.4-1	SP FIG 6.2.4-1
15-0004	Update FSAR for MP 10-0004 which modified the LOCA sequencer for ESW supply to UHS	06/29/16	OL-21e 8/16	SP SEC 6.2.1.1.3 SP SEC 6.2.2.2.2.3	SP TBL 6.2.1-6 SP TBL 6.2.1-7 SP TBL 16.3-2	

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 20 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
10-0031	Broad FSAR Ch16 improvements: remove special exemptions	06/05/16	OL-21e 8/16	SP SEC 16.7.8.1 SP SEC 16.7.9.1 SP SEC 16.7.10.1 SP SEC 16.7.10.1.1 SP SEC 16.9.3.1 SP SEC 16.11.1.1 SP SEC 16.11.1.2 SP SEC 16.11.1.3 SP SEC 16.11.1.4 SP SEC 16.11.1.5 SP SEC 16.11.1.5.1 SP SEC 16.11.2.1 SP SEC 16.11.2.2 SP SEC 16.11.2.2.2 SP SEC 16.11.2.3 SP SEC 16.11.2.3.2 SP SEC 16.11.2.4 SP SEC 16.11.2.5 SP SEC 16.11.2.5.1 SP SEC 16.11.2.6 SP SEC 16.11.2.6.1 SP SEC 16.11.2.7		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 21 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
10-0031 (Cont.)				SP SEC 16.11.2.7.1 SP SEC 16.11.2.7.2 SP SEC 16.11.2.8 SP SEC 16.11.2.8.1 SP SEC 16.11.2.8.2 SP SEC 16.11.3.1 SP SEC 16.11.4.1 SP SEC 16.11.4.1.2 SP SEC 16.11.4.3 SP SEC 16.11.5.2 SP SEC 16.11.5.2.1 SP SEC 16.24.4		
15-0005	Incorporate changes related to licesne amendment 216 which modified the DNB correlation stated in Technical Specifications and adopted WCAP-14565-P-A methodology at Callaway	02/29/16	OL-21d 4/16	SP SEC 4.4.1.1 SP SEC 4.4.2.2.1 SP SEC 4.4.7 SP SEC 15.0.3.2 SP SEC 15.1.5.2 SP SEC 15.1.6	SP TBL 1.6-2 SP TBL 15.0-2	SP FIG 4.4-3a SP FIG 4.4-3b
14-0003	incorporate changes related to license amendment 213 which added new requirements for managing gas accumulation in ECCS, RHR, and Containment Spray.	10/8/15	OL-21c 1/16	SP SEC 5.4.7.2.7 SP SEC 5.4.7.5 SP SEC 6.2.2.1.2.3 SP SEC 6.2.2.1.4 SP SEC 6.3.2.2 SP SEC 6.3.4.2 SP SEC 6.3.4.2.1		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 22 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
15-0006	Added new Chapter 19 to incorporate Callaway Operating License Renewal into the FSAR	7/22/15	OL-21b 8/15	SP SEC 19.0 SP SEC 19.1 SP SEC 19.1.1 SP SEC 19.1.10 SP SEC 19.1.11 SP SEC 19.1.12 SP SEC 19.1.13 SP SEC 19.1.14 SP SEC 19.1.15 SP SEC 19.1.16 SP SEC 19.1.17 SP SEC 19.1.18 SP SEC 19.1.19 SP SEC 19.1.2 SP SEC 19.1.20 SP SEC 19.1.21 SP SEC 19.1.22 SP SEC 19.1.23 SP SEC 19.1.24 SP SEC 19.1.25 SP SEC 19.1.26 SP SEC 19.1.27 SP SEC 19.1.28 SP SEC 19.1.29 SP SEC 19.1.3 SP SEC 19.1.30 SP SEC 19.1.31 SP SEC 19.1.32 SP SEC 19.1.33 SP SEC 19.1.34 SP SEC 19.1.35	SP TBL19.1-1 SP TBL19.4-1	

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 23 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
15-0006 (Cont.)				SP SEC 19.1.36		
				SP SEC 19.1.37		
				SP SEC 19.1.38		
				SP SEC 19.1.39		
				SP SEC 19.1.4		
				SP SEC 19.1.5		
				SP SEC 19.1.6		
				SP SEC 19.1.7		
				SP SEC 19.1.8		
				SP SEC 19.1.9		
				SP SEC 19.2		
				SP SEC 19.2.1		
				SP SEC 19.2.2		
				SP SEC 19.2.3		
				SP SEC 19.3		
				SP SEC 19.3.1		
				SP SEC 19.3.1.1		
				SP SEC 19.3.1.2		
				SP SEC 19.3.1.3		
				SP SEC 19.3.1.4		
				SP SEC 19.3.1.5		
				SP SEC 19.3.2		
				SP SEC 19.3.2.1		
				SP SEC 19.3.2.1.1		
				SP SEC 19.3.2.1.2		
				SP SEC 19.3.2.1.3		
				SP SEC 19.3.2.1.4		
				SP SEC 19.3.2.2		
				SP SEC 19.3.2.3		
				SP SEC 19.3.2.4		
				SP SEC 19.3.2.5		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 24 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
15-0006 (Cont.)				SP SEC 19.3.2.6		
				SP SEC 19.3.2.7		
				SP SEC 19.3.3		
				SP SEC 19.3.4		
				SP SEC 19.3.5		
				SP SEC 19.3.5.1		
				SP SEC 19.3.5.2		
				SP SEC 19.3.6		
				SP SEC 19.3.6.1		
				SP SEC 19.3.6.10		
				SP SEC 19.3.6.2		
				SP SEC 19.3.6.3		
				SP SEC 19.3.6.4		
				SP SEC 19.3.6.5		
				SP SEC 19.3.6.6		
				SP SEC 19.3.6.7		
				SP SEC 19.3.6.8		
				SP SEC 19.3.6.9		
				SP SEC 19.4		
15-0008	Administrative change to update position titles and and clarify EES run times to be consistant with License Amendment 209	5/13/15	OL-21b 8/15	SP SEC 6.3.1		
				SP SEC 16.0.1.4		
				SP SEC 16.0.2.2		
				SP SEC 16.0.2.3		
				SP SEC 16.7.10.1.1		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 25 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
13-0016	Incorporate changes related to license amendment 211 which adds a new crack exclusion for moderate energy HDPE piping.	3/31/15	OL-21a 5/15	SP SEC 3.6.2.1.2.4 SP SEC 3.6.3	SP TBL 3.6-2	
09-0038	Add description of the microwave communications links that are being added to the Callaway Plant communications portfolio.(MP 09-0003)	2/12/10	OL-21 5/15	SP SEC 9.5.2.1.2 SP SEC 9.5.2.2.4 SP SEC 9.5.2.2.6 SP SEC 9.5.2.2.7		
14-0001	Update FSAR to reflect MP 13-0039, Cask Handling Crane modification required for the Independent Spent Fuel Storage Installation (ISFSI) project.	5/13/15	OL-21 5/15	SP SEC 9.1.4.2.2 SP SEC 9.1.4.2.3 SP SEC 9.1.4.3 SP SEC 15.0.1.3 SP SEC 15.7 SP SEC 15.7.5	SP TBL 9.1-7	SP FIG 3.8-97 SP FIG 3.9-98 SP FIG 9.1-6 SP FIG 9.1-7 SP FIG 15.0-31
10-0004	Add a summary description of the basis for conducting heavy load movements	5/22/15	OL-21 5/15	SP SEC 9.1.5 SP SEC 9.1.5.1 SP SEC 9.1.5.2 SP SEC 9.1.5.3 SP SEC 9.1.5.4 SP SEC 9.1.5.4.1 SP SEC 9.1.5.4.2 SP SEC 9.1.5.4.3 SP SEC 9.1.5.5 SP SEC 9.1.6		
14-0004	Revise FSAR 18.3.2.2 to reflect MP 11-0020.	5/27/14	OL-21 5/15	SP SEC 18.3.2.2		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 26 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
14-0005	Update the FSAR with the information associated with the replacement reactor vessel closure head (RRVCH) Integrated Head Assembly (IHA). (MP 10-0001)	5/13/15	OL-21 5/15	SP SEC 3.7(B) SP SEC 3.7(N).1.3 SP SEC 3.7(N).2 SP SEC 3.7(N).2.15 SP SEC 3.7(N).3.10 SP SEC 3.7(N).3.15 SP SEC 3.7(N).3.2 SP SEC 3.7(N).3.3 SP SEC 3.7(N).3.6 SP SEC 3.7(N).3.7 SP SEC 3.8.3.1 SP SEC 3.8.3.1.10 SP SEC 3.9(N).1.2 SP SEC 3.9(N).2.5 SP SEC 3.9(N).3.2.1 SP SEC 3.9(N).7 SP SEC 3.11(B).2.1 SP SEC 3A SP SEC 4.2.5 SP SEC 9.1.4.2.3.1 SP SEC 9.1.4.3 SP SEC 9.1.5 SP SEC 9.4.6.1.2 SP SEC 9.4.6.2.2 SP SEC 9.4.6.2.3 SP SEC 18.2.1.2 SP SEC NRC Q 331.1 SP SEC NRC Q 492.14	SP TBL 2.3-3 SP TBL 3.10(N)-1 SP TBL 3.2-1 SP TBL 3.7(N)-1 SP TBL 5.2-3 SP TBL 6.1-3 SP TBL 6.2.1-4 SP TBL 6.2.1-66 SP TBL 6.5-2 SP TBL 9.1-9 SP TBL 9.4-12 SP TBL 12.4-1	SP FIG 3.8-74 SP FIG 18.2-1 SP FIG 18.2-13

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 27 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
14-0006	Update the FSAR with the information associated with the replacement vessel head. (MP 10-0005)	4/27/15	OL-21 5/15	SP SEC 1.2.2.1	SP TBL 3.2-1	SP FIG 3.9(N)-4
				SP SEC 3.9(N).4.1	SP TBL 3B-6	SP FIG 3.9(N)-5
				SP SEC 3.9(N).4.2	SP TBL 5.1-1	
				SP SEC 4.5.1.1	SP TBL 5.2-1	
				SP SEC 4.5.1.3	SP TBL 5.2-2	
				SP SEC 5.2.3.1	SP TBL 5.3-1	
				SP SEC 5.2.4.2.2	SP TBL 5.3-2	
				SP SEC 5.3.1.2	SP TBL 5.3-4	
				SP SEC 5.3.3.1		
				SP SEC 5.3.3.3		
				SP SEC 5.3.3.5		
				SP SEC 5.3.3.7		
				SP SEC 7.7.1.9.1		
				SP SEC 11.4.2.3.2		
				SP SEC 12.2.1.7		
				SP SEC 15.4.8.1.1		
14-0007	Update the FSAR to describe the changes to the fuel pool cooling and cleanup system (FPCCS) to be implemented in order to allow flexible response to beyond design-basis external events (BDBEE). (MP 13-0026)	9/8/14	OL-21 5/15	SP SEC 9.1.3.2.1.1		
				SP SEC 9.1.3.2.3.1		
14-0010	Correct minor inconsistencies between several FSAR Site Addendum sections in Chapter 2	8/4/14	OL-21 5/15	SA SEC 2.3.4.2.2		
				SA SEC 2.3.5.2.1.2		

CALLAWAY
FSAR CHANGE NOTICE LOG
(Sheet 28 of 28)

<u>Change Notice Number</u>	<u>Description</u>	<u>Approval Date</u>	<u>Interim Revision Incorporated</u>	<u>Section Revised</u>	<u>Table Revised</u>	<u>Figure Revised</u>
14-0015	Correction to the reference to Callaway Calculation contained in the FSAR	3/18/15	OL-21 5/15	SP SEC 9.5.1.4.2		
15-0001	Revising the FSAR to replace the outdated reference with a more generic description of the Inservice Inspection Program so as to remove unnecessary detail .	3/3/15	OL-21 5/15	SP SEC 5.2.4.1 SP SEC 5.2.4.1.1 SP SEC 5.2.4.5 SP SEC 5.4.2.4.1 SP SEC 6.6.1 SP SEC 6.6.3 SP SEC 6.6.3.1 SP SEC 6.6.6		
15-0002	Add text to describe the new Spent Fuel Pool Instrumentation that satisfies NRC Order EA-12-051	4/9/15	OL-21 5/15	SP SEC 9.1.3		
15-0003	Revise inconsistencies in the description of the pressure at which the RHR system is placed in service.	4/10/15	OL-21 5/15	SP SEC 1.2.9.2 SP SEC 3.1.6 SP SEC 5.2.2.10.4.1 SP SEC 7.6.2.1		
15-0011	Update the FSAR to incorporate the cycle 21 core reload design	5/19/15	OL-21 5/15	SP SEC 4.1 SP SEC 4.2.2 SP SEC 4.2.2.2.3 SP SEC 4.2.2.2.4 SP SEC 4.2.2.3.3 SP SEC 15.6.5.3.1 SP SEC 15.6.5.3.3 SP SEC 15.6.7	SP TBL 4.3-1A SP TBL 5.3-10	