Acronym List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1	Acronyms	Deleted Acronyms and Abbreviations list. It is replaced by a global list elsewhere in the DCD.

Appendix 1A

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1	Throughout	Editorial changes related to standardization of acronym list.
2	S1A.1	Added the following new references: 1A-5 GE Nuclear Energy, "Regulatory Relaxation for BWR Post-Accident Sampling Stations (PASS)," NEDO-32991-A, Class I (Non-proprietary), August 2001. 1A-6 U.S. Nuclear Regulatory Commission, Regulatory Guide 1.97, "Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants."
3	Table 1A-1, 10 CFR 50.34(f)(1)(v)	TMI Item II.K.3.13 – Deleted "1.5 or" in two locations in ESBWR Resolution column for consistency with current GDCS/ADS logic as described in DCD T2 Subsection 7.3.1. Added Section 7.3.1 to the Associated Location(s) column.

Appendix 1A

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
4	Table 1A-1, 10 CFR 50.34(f)(1)(vi)	TMI Item II.K.3.16 – Revised last sentence from: "The ESBWR uses either direct acting SRVs or a modern pilot-operated SRV design that has been proven not to experience the performance problems observed in earlier BWRs." to: "The ESBWR uses a modern SRV design that has been proven not to experience the performance problems observed in earlier BWRs." This change makes the paragraph more generic and avoids potential conflicts with the SRV discussion in DCD T2 Subsection 5.2.2.
5	Table 1A-1, 10 CFR 50.34(f)(2)(iii)	TMI Item I.D.1 – Editorial. Changed "18.4.2" to "18.2.2" for consistency with current Chapter 18 contents.
6	Table 1A-1, 10 CFR 50.34(f)(2)(iv)	TMI Item I.D.2 – Editorial. Changed "7.1.5.5.1" to "7.1.5.2.4.1" for consistency with current Chapter 7 contents.
7	Table 1A-1, 10 CFR 50.34(f)(2)(v)	TMI Item I.D.3 – Editorial. Changed several references in Associated Location(s) column for consistency with current Chapter 7 contents.
8	Table 1A-1, 10 CFR 50.34(f)(2)(vi)	TMI Item II.B.1 – Editorial. Changed "Drainage" to "Drain" to match official system name.
9	Table 1A-1, 10 CFR 50.34(f)(2)(vii), Sixth paragraph	TMI Item II.B.2 1) Added electrical equipment rooms in divisions 1, 2, 3 and 4, the Standby Liquid Control system pump room, nonsafety-related DCIS rooms and diesel generator rooms to list of locations requiring access. Removed the primary containment sample station (process sample system) and the nitrogen gas supply bottles from the list of locations requiring access. (per response to RAI 12.4-31) 2) Added "RWCU/SDC cross-tie line spectacle flanges and manual isolation valves" to list of locations requiring access. (for consistency with design change described in response to RAI 6.2-140 S01 and DCD T2 Subsection 5.4.8.2.2)

Appendix 1A

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
10	Table 1A-1, 10 CFR 50.34(f)(2)(vii), Seventh paragraph	TMI Item II.B.2 – Editorial. Changed "The reactor building vital areas" to "Areas in the reactor building requiring post-accident access" to avoid confusion with the use of "vital" in 10 CFR 73.
11	Table 1A-1, 10 CFR 50.34(f)(2)(viii)	TMI Item II.B.3 – Updated description of Process Sampling System to be consistent with current design as described in Subsection 9.3.2.1. Added new paragraph as follows: "The ability for the ESBWR to obtain and analyze samples is based on the approach provided in NEDO-32991-A (Reference 1A-5), which provides the basis for exceptions to NUREG-0737 (Reference 1A-2) and Regulatory Guide 1.97 (Reference 1A-6)." Changed original first paragraph to read: "The ESBWR Containment Monitoring System (CMS) and Process Sampling System (PSS) provide contingency plans for obtaining and analyzing highly radioactive reactor coolant, suppression pool, and containment atmospheric samples." Deleted last paragraph of Process Sampling System discussion.
12	Table 1A-1, 10 CFR 50.34(f)(2)(xiv)	TMI Item II.E.4.2 – Added "in certain designated process lines" when referring to containment isolation valve closure for consistency with the LD&IS description in Section 7.3.3. Changed "eliminating dependency on one power source to attain isolation" to "such that the unavailability of any two safety-related electrical divisions will not prevent isolation from occurring" for consistency with N-2 safety-related system design requirements as described in Section 7.1.2.3.
13	Table 1A-1, 10 CFR 50.34(f)(2)(xiv)	TMI Item II.E.4.2 – Replaced last sentence in sixth paragraph with "The value for this setpoint is based on the analytical limit used in safety analyses." (per response to RAI 6.2-131 S01)

Appendix 1A

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
14	Table 1A-1, 10 CFR 50.34(f)(2)(xviii)	TMI Item II.F.2 – Added 7.7.1.2.2 to Associated Location(s) column for consistency with DCD T2 Chapter 7.
15	Table 1A-1, 10 CFR 50.34(f)(2)(xxi)	TMI Item II.K.1.22 – In last paragraph, changed from "When reactor low water Level 1.5 (immediate MSIV closure if not already closed) or 1 is reached (if ICs are not operable), an ADS timer is initiated." to "When reactor low water Level 1 is reached, an ADS timer is initiated." Change is for consistency with current GDCS/ADS logic as described in DCD T2 Subsection 7.3.1.
16	Table 1A-1, 10 CFR 50.34(f)(2)(xxiii)	TMI Item II.K.2.10 – Editorial changes in last paragraph of ESBWR Resolution column. Changed "reference design" to "standard plant design". Change "bypass open" to "bypass valves open".
17	Table 1A-1, 10 CFR 50.34(f)(2)(xxiii)	TMI Item II.K.2.10 – Added references to DCD Sections 7.1.6 and 7.2.1 in Associated Location(s) column. (per response to RAI 7.1-71)
18	Table 1A-1, 10 CFR 50.34(f)(2)(xxvi)	TMI Item III.D.1.1 – Added Reactor Water Cleanup/ Shutdown Cooling System to list of systems under leakage control program. Revised Associated Location(s) column to include Subsection 5.4.7 and Chapter 16 Section 5.5.2. (per response to RAI 20.0-16)
19	Table 1A-1, 10 CFR 50.34(f)(3)(iv)	TMI Item II.B.8 – Inserted "Reactor Building / Fuel Building" in front of "stack" due to design change that provides three separate and independent building stacks.
20	Table 1A-1, 10 CFR 50.34(f)(3)(iv)	TMI Item II.B.8 – Added new paragraph to end of ESBWR Resolution column as follows: "However, the Containment Inerting System is supplemented by providing a manual, hardened, and elevated vent path." Change due to the addition of a hardened containment vent flow path to the ESBWR design.

Appendix 1B

Item	**Location** (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	**Description of Change**
1	S1B.2, Item (3)	Revised first sentence to read: "It is not necessary for operating personnel to have access to any place other than the control room, technical support center, electrical equipment rooms for divisions 1, 2, 3 and 4, the Standby Liquid Control (SLC) system pump room, nonsafety-related Distributed Control and Information System (DCIS) rooms, remote shutdown panels, health physics facility (counting room), diesel generator control rooms, and Isolation Condenser/Passive Containment Cooling System (IC/PCCS) and fuel pools refill valves makeup as described in …" Added "and the" and deleted "and sample analysis areas" from second sentence. Deleted "and sample analysis areas" from third sentence. (per response to RAI 12.4-31)
2	S1B.2, Item (3)	Added "RWCU/SDC cross-tie line spectacle flanges and manual isolations valves" to list of locations requiring access. (for consistency with design change described in response to RAI 6.2-140 S01 and DCD T2 Subsection 5.4.8.2.2)
3	S1B.3.1, last paragraph	Changed "one half percent" to "0.4%". (for consistency with analysis in NEDE-33279P)
4	S1B.3.2, first paragraph	Deleted second sentence. (per response to RAI 12.4-31)
5	S1B.3.3, fourth paragraph	Deleted "manual nitrogen reserve supply valves and". (per response to RAI 12.4-31)
6	S1B.5.1.4, first paragraph	Changed "does not need, and thus does not have," to "has" for consistency with EFUs added in DCD Rev 3.
7	Table 1B-3	Deleted entry for High Pressure Nitrogen Supply System. (per response to RAI 12.4-31)

Appendix 1B

Item	**Location** (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	**Description of Change**
8	Table 1B-4	Revised entry for Stack to reflect design change that replaces plant stack with three separate and independent building stacks. Separate line items included for RB/FB Stack, TB Stack and RW Stack. Legend updated to define RB/FB, TB and RW.

Appendix 1C

Item	**Location** (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	**Description of Change**
1	Table 1C-1, GL 89-16	Inserted "however the Containment Inerting System is supplemented by providing a manual, hardened, and elevated vent path" to the response. Deleted last sentence about GL only being addressed to BWR plants with Mark I containments. Change due to the addition of a hardened containment vent flow path to the ESBWR design.
2	Table 1C-1, GL 89-19	Changed text in Evaluation Result column to read "Section 1.11 (Item A-47), Subsections 5.4.5 and 7.7.3". Deleted statement about FW and condensate booster pumps due to reconfiguration of adjustable speed drive motors. Change is for consistency with referenced DCD subsections.