

ESBWR DCD Tier 2 Chapter 9 Appendix 9A

26A6642BB Revision 7 to Revision 8 Change List

| Item | Location | Description of Change |
|-------------|---|--|
| 1. | Entire Chapter | Header changed from Rev 7 to Rev 8. |
| 2. | F9A.2-6 | Added room number (Room 1601) and fire area designation (F1600) to Nuclear Island fire protection zone drawing for elevation 13570. Reference MFN 10-320. |
| 3. | F9A.2-9 | Corrected Nuclear Island fire protection zone drawing for elevation 34000 to reflect fire area F1601 and designate equipment access door as a fire rated door between fire areas F1600 and F1601. Reference MFN 10-320. |
| 4. | Section 9A.4.2, 1 st paragraph 2 nd sentence | Corrected statement to reflect that while the Fuel Building does contain safety-related or safe shutdown components, a fire in the Fuel Building does not affect any of the four divisions used to achieve and maintain safe shutdown. Reference MFN 10-328. |
| 5. | Section 9A.4.6, 1 st paragraph 2 nd and 3 rd sentence | Corrected statement to reflect that the Electrical Building does not contain safety-related or safe shutdown components as described in Table 9A6-1. Reference MFN 10-328. |
| 6. | T9A.5-1, F1600 | Corrected fire area F1600 table to reflect that room 1490 is not included in fire area F1600 at elevation 27000 and 34000 and that there is no driveway exception to fire barriers for this fire area. Reference MFN 10-320. |
| 7. | T9A.5-1, F1601 | Corrected fire area F1601 table to reflect fire area boundary includes room 1490 at elevation 34000. Reference MFN 10-320. |

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|-------------|-----------------|---|
| 8. | T9A.5-2, F2100 | <p>Corrected Fire Area listing of safety-related divisional equipment or cables from none to division 1, 2, 3, 4 and corrected impact of design basis fire on safe shutdown from Complete burnout of all equipment and cables within this Fire Area results in loss of only redundant train A and B equipment; all safety-related and safe shutdown equipment is unaffected by fire and are operable. Makeup water capability to the Spent Fuel Pool from the FP system is unaffected by fire and is operable. Both A and B on-site power sources are unaffected by fire and are operable.</p> <p>To:</p> <p>Complete burnout of all equipment and cables within this Fire Area results in loss of DIV 1, 2, 3 and 4 Process Radiation Monitor instrumentation resulting in shutdown of HVAC and isolation of Fuel Building. Loss of redundant train A and B FAPCS equipment will result in loss of FAPCS. Makeup water capability to the Spent Fuel Pool from the FP system is unaffected by fire and is operable. Both A and B on-site power sources are unaffected by fire and are operable.</p> <p>This correction reflects that safety-related equipment (process rad monitoring, FB HVAC dampers) is impacted by fire in F2100 resulting in loss of HVAC and isolation of Fuel Building. Loss of redundant train A and B FAPCS equipment will result in loss of FAPCS. There is no impact on safe shutdown equipment. Reference MFN 10-328.</p> |

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| 9. | T9A.5-4, F4197 | <p>Corrected Fire Area impact of design basis fire on safe shutdown from Complete burnout of all equipment and cables within this Fire Area affects no safety-related or safe shutdown divisional equipment; all safety divisions are operable.</p> <p>To:</p> <p>Complete burnout of all equipment and cables within this Fire Area affects no safety-related or safe shutdown divisional equipment; all safety divisions are operable. Fire-related failure of safety-related instrumentation (13.8 kV Bus Under voltage transducers) may cause reactor scram. See Section 15.2.5.2.</p> <p>This correction reflects that safety related equipment (13.8kV Bus Under Voltage Transducers) will be affected by fire in this fire area. Reference MFN 10-328.</p> |
| 10. | T9A.5-6, F5201 | <p>Corrected Fire Area listing of safety-related divisional equipment or cables from division 1, 2, 3, 4 to none and corrected impact of design basis fire on safe shutdown from Complete burnout of all equipment and cables within this Fire Area affects only redundant train A on-site and offsite power and related equipment. All redundant train B on-site and off-site power and related equipment is operable. Fire-related failure of safety-related instrumentation may cause reactor scram. See Section 15.2.5.2 .</p> <p>To:</p> <p>Complete burnout of all equipment and cables within this Fire Area affects only redundant train A on-site and off-site power and related equipment. All redundant train B on-site and off-site power and related equipment is operable.</p> <p>This correction reflects that no safety related equipment (13.8kV Bus Under Voltage Transducers) is located in this fire area. Reference MFN 10-328.</p> |

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| 11. | T9A.5-6, F5204 | <p>Corrected Fire Area listing of safety-related divisional equipment or cables from division 1, 2, 3, 4 to none and corrected impact of design basis fire on safe shutdown from Complete burnout of all equipment and cables within this Fire Area affects only redundant train B on-site and offsite power and related equipment. All redundant train A on-site and off-site power and related equipment is operable. Fire-related failure of safety-related instrumentation may cause reactor scram. See Section 15.2.5.2.</p> <p>To:</p> <p>Complete burnout of all equipment and cables within this Fire Area affects only redundant train B on-site and off-site power and related equipment. All redundant train A on-site and off-site power and related equipment is operable.</p> <p>This correction reflects that no safety related equipment (13.8kV Bus Under Voltage Transducers) is located in this fire area. Reference MFN 10-328.</p> |
| 12. | T9A.6-1, parameter 13.8 kV Bus Under Voltage | <p>Corrected location of 13.8 kV Bus Under voltage transducers from Electrical Building (RM 5201 and RM 5204) to Turbine Building (RM 4500 Elev 28000 Fire Area F4197). Added note 1 stating that no safety-related monitoring devices are located in Electrical Building. Reference MFN 10-328.</p> |