

6.5 Fission Products Removal and Control Systems

The information in this section of the reference ABWR DCD, including all subsections, tables, and figures, is incorporated by reference with the following departure and supplements.

6.5.3.1 Primary Containment

The following standard departure reflects the removal of the flammability control system.

STD DEP T1 2.14-1

The primary containment atmosphere is inerted with nitrogen by the Atmospheric Control System (ACS). The ACS is described in Subsection 6.2.5. ~~Following the design basis LOCA, the Flammability Control System (FCS) controls the concentration of oxygen in containment. Oxygen is generated by the radiolytic decomposition of water.~~

6.5.5 COL License Information

6.5.5.1 SGTS Performance

The following standard supplement addresses COL License Information Item 6.9.

A secondary containment draw-down analysis will be performed, in accordance with Final Safety Evaluation Report (NUREG-1503, Page 6-51), prior to preoperational testing, based on actual as-built secondary containment and SGTS design, to demonstrate the capability of SGTS to achieve and maintain the design negative pressure of 0.25 in-wg within 20 minutes from the time secondary containment isolation is initiated, following a LOCA. The analysis will include inleakage from the open, non-isolated penetration lines identified during construction engineering and will assume the worst single failure of a secondary isolation valve to close. In accordance with 10 CFR 50.71(e), the FSAR will be updated to document the results of the analysis. (COM 6.5-1)

6.5.5.2 SGTS Exceeding 90 Hours of Operation Per Year

The following standard supplement addresses COL License Information Item 6.9a.

The capability of the SGTS system to perform its intended function in the event of a LOCA will be demonstrated by appropriate laboratory testing of a representative sample of charcoal adsorber in accordance with Regulatory Guide 1.52, Revision 2, and Technical Specification 5.5.2.7 Ventilation Filter Testing Program (VFTP), if more than 90 hours of operation per year (excluding test) for either train is anticipated by plant operations based on the operating experience. This requirement is contained in the VFTP and its associated procedures.

6.5.6 References

The information in this subsection of the reference ABWR DCD is incorporated by reference with the following standard supplement.

- 6.5-2 Final Safety Evaluation Report Related to the Certification of the Advanced Boiling Water Reactor Design, July 1994 (NUREG-1503).