

ATTACHMENT A

SALEM OFFSITE DOSE CALCULATION MANUAL REVISION 4 HIGHLIGHTS

- 1) PAGE 5: Revised the alarm setpoint justification for the 2R13 alarm setpoint.

RATIONALE:

The Salem Unit 2 service water system uses the Salem Unit 1 circulating water system for dilution flow prior to release to the river. The default alarm setpoint for the 2R13 service water monitor assumed Unit 1 would be in operation at all times. However, when Unit 1 is shutdown (along with Unit 1 circulating water) no dilution flow is provided and the potential to release radioactively contaminated water above Technical Specification Limits existed. In the equation used to calculate the alarm setpoint it was assumed one circulating water pump was in service and the MPC for I-131 was used as a source term for conservatism. However, when no dilution is assumed and the I-131 MPC is used the default alarm setpoint is calculated to be 25 cpm. The typical background is 75 cpm for the 2R13 monitor. So, the default MPC mix of 1E-5 uCi/ml used for other liquid monitor default setpoints was used for the 2R13 default setpoint.

- 2) PAGES 34 and 35: New diagrams of the Salem radiation monitoring systems for liquid releases were provided.

RATIONALE: Revised for clarity.

- 3) PAGES A-4, A-5, B-2, and B-5: Updated historical release data to includes 1987 information.

RATIONALE: To ensure the default parameters used in dose calculations and alarm setpoints are current with recent release data.

- 4) APPENDIX E: 1) Changed the format of describing the sample locations, types and numbers for the Radiological Environmental Monitoring Program (REMP). Reprinted the REMP sample location maps. 2) Eliminated the listing of 2 milk sample locations and 2 air sample locations.

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ATTACHMENT A (CONT'D)

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RATIONALE: 1) Revised for Clarity. 2) The 2 air sample locations (2S2 and 10D1) and the two milk sample locations (13E3 and 5F2) were excess sample points above and beyond Technical Specification 3/4.12.1 requirements. Based on an analysis of the cost for maintaining the sample points versus their benefit it was decided to delete the sample locations from the REMP. The number of sample locations are in compliance with the requirements of Technical Specification 3/4.12.1.