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A TEAM APPROACH FOR THE MANAGEMENT OF RADIOACTIVE LIQUID EFFLUENTS

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DISPOSAL

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Project Manager:

Objectives: Describe the efforts by the Davis Besse Nuclear Power Station to streamline the management of liquid effluents.

Comments: The management of liquid effluents at most PWRs is complex due to responsibility being shared by various departments. A team approach is necessary to provide effective control of all radioactive liquid effluents to reduce dose to the public and maintain processing costs as low as possible.

At Davis Besse, the administrative control over liquid radwaste processing has been particularly complex for various reasons. They have proposed to form a radiological effluent management team that will develop policy that coordinates plant activities and operations that generate, process and release radioactive liquid effluents. The proposed objectives of the team are: 1) Reduce the source term for radioactive effluents, 2) Minimize unnecessary liquid from entering the radioactive liquid waste processing system, 3) Determine the type of processing media to be utilized, 4) Perform routine review of the processing system, 5) Plan for infrequent events such as resin replacement or system flushing, and 6) Provide a communication route.

Remarks/Potential for dose limitation: Reducing liquid effluent activity requires a management culture which commits the cooperation and coordination of the entire station. Long term vision should be reflected in a written radwaste policy. Communication can affect "buy in" from station personnel. You have to address the source term. Small leaks need to be located and repaired. Modifications and work orders need to be reviewed to eliminate "clean" water from the radwaste stream. Vendors need to be pushed to continue to develop improved technology to achieve better activity removal factors.

References: Priest, J., "A Team Approach for the Management of Radioactive Liquid Effluents," *1993 Radiation Exposure Management Seminar*, Westinghouse, Pittsburgh, Pennsylvania, 1993.

Duration: from: 1992 to: 1993

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