

ABSTRACT

Liquid Effluent Optimization Plan at IPEC

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From a median level performance history, IPEC had slipped to 3rd or 4th quartile performance for liquid effluents since 1998. Many ideas and “plans” surfaced as to how to improve, but they were not coordinated. The recent draft report from EPRI regarding strategies of liquid effluent optimization was used to help build a document at IPEC to coordinate plans for this optimization. This presentation covers the generation of the plan and the key elements involved in reducing discharged curies. A new system was installed on a curtain drain sump to ensure it is efficiently processed in a continuous intermittent mode. Better performance is expected from other cleanup processes, as mixing of high and low conductivity liquid waste is now minimized. The plan also covers control of contaminants, methods of goal setting (both curie and dose based), and prioritization of optimization efforts. While elimination of liquid effluents is NOT planned at IPEC, efforts outlined in this document are clearly evaluated in terms of “optimization”, with regard to curie and dose savings, as well as the savings from cost, manpower, and risks.