

WESTINGHOUSE SAVANNAH RIVER COMPANY

DATE: April 28, 1998

FROM: Steve Piccolo,

HLW Salt Disposition Systems Engineering Team Leader

SUBJECT: Initial List of Alternatives for the Disposition of High Level Waste Salt

On March 12TH a Briefing Package was distributed to SRS personnel Site wide to solicit input and establish the best technical path for the disposition of High Level Waste salt. The recently completed work on the chemistry of precipitation process provided a baseline for improving the current ITP process. In response to this request and parallel brainstorming efforts which involved representatives of all SRS operating and technical organizations, almost 130 different alternatives were established for consideration. While not all of the submitted proposals were systems solutions, all addressed at least some portion of the process resolution.

The Salt Disposition Systems Engineering Team considered and evaluated all of the proposals. In a number of cases, several alternatives were proposed which were similar in thought. In other cases, constraints would prevent the full proposal from being implemented but certain aspects were potentially valuable when coupled with other proposals. Some proposals were limited to a portion of the overall problem, such as engineering implementations, and could also be combined with other proposals. Ultimately, through combination, evaluation and use of suggested ideas to trigger creation of additional concepts, an "Initial List" of the eighteen attached alternatives was compiled by the Team.

In Phase II of the Team effort, the eighteen alternatives will be reviewed to establish a "Short List" of the five best alternatives with regard to safety, attainment, life cycle cost, constructability, operability and support of HLWMD and SRS missions. The Team expects to draw upon the expertise of many of you, the people most knowledgeable in the HLWMD processes and requirements. As new concepts come to mind, please furnish them to Bob Jones at 704-3N. The Team will continue to consider additional ideas throughout the estimated completion of Phase II in late May. We are confident that your support will assure success in determining the most effective technology for disposition of HLW salt.

SFP/lss
Attachment