



EPRI Low Level Waste and Radiation Management Program Overview

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LLW-RM Barriers/Challenges

LLW and Radiation Management

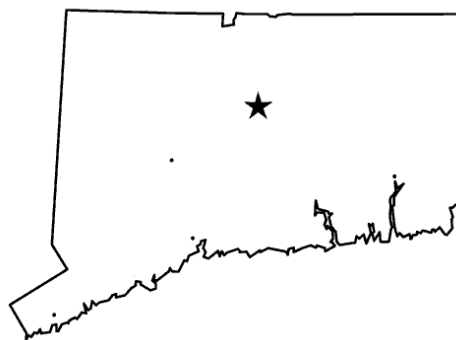
1 Current Options for the Management of LLW and Radioactive Materials are not Assured nor Optimized to Meet Requirements of a Changing Environment (*Low Level Waste*)

2 Current Radiological Protection Strategies are Inadequate to Effectively meet Changing Future Requirements and Targets (RP2020) (*Radiation Management*)

3 Decommissioning Technology

Impact to Industry: Importance of Barnwell

- Only operating industry-accessible disposal site accepting Class B and Class C Wastes
- Closing to outside generators in 2 years (July 2008)

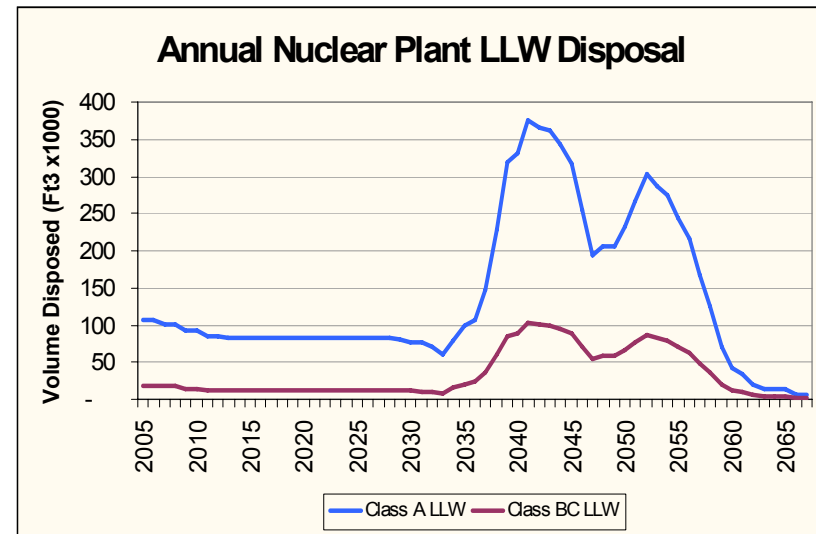


- Designated site for compact comprising states from two geographical regions (SC, CT, NJ)
- No economic incentive to build new disposal facilities

EPRI Technical Strategy for Addressing 2008 Pending Loss of Barnwell Disposal Access

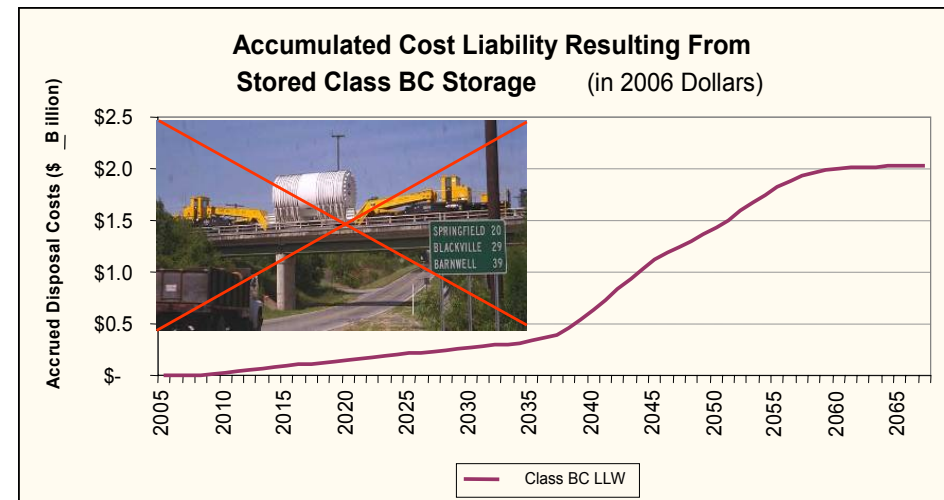
Completed:

- On-site LLW storage guidelines



In Progress:

- Class B-C LLW Reduction Initiatives
- Support to NEI/GAO/NRC/industry in evaluation of new disposal options
- Site specific volume reduction support (LLW Assessments)



2007 Projects to Resolve Class B/C Waste Disposal Issue

Class B/C Solutions

NRC acceptance of On-site Storage Guidelines

- 1) Industry review of 2004 edition of Guidelines.
- 2) Revise Guidelines as necessary in preparation of NRC Review.

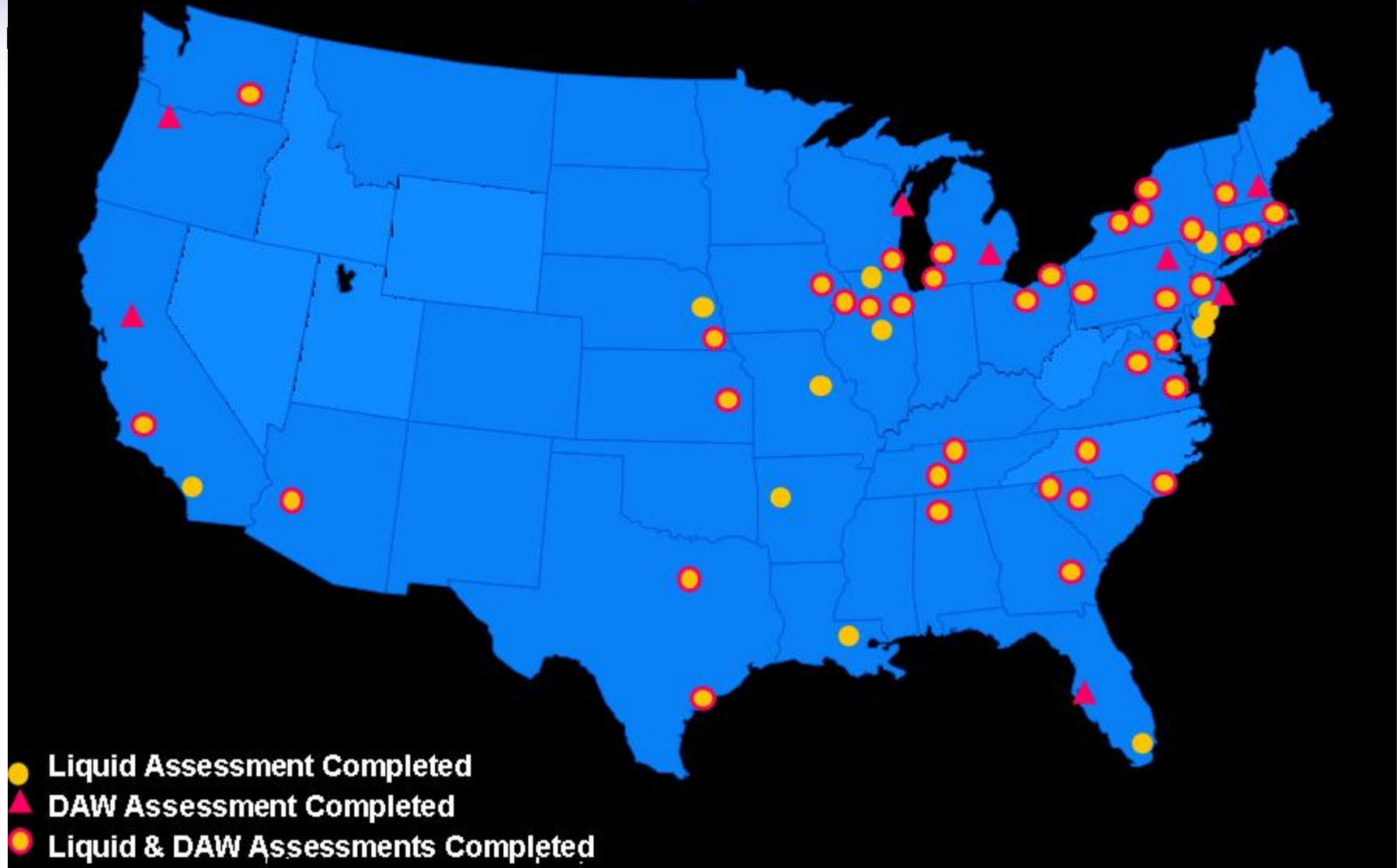
Reduce generation of Class B/C Waste

- Provide strategies to:
- 1) Reduce Filter/Resin Volumes
 - 1) Improve operational chemistry performance

Reclassify existing Class B/C Waste as Class A

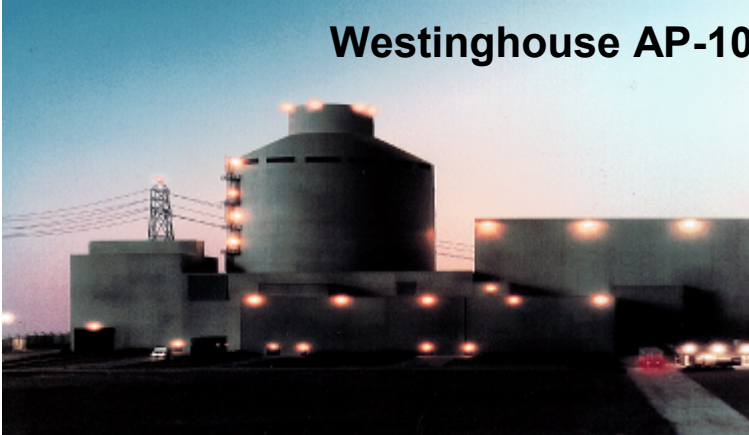
- 1) Revise NRC BTP to allow broader blending of compatible waste types.
- 2) Utilize flexibility in Part 61.58 to reduce conservatism in concentration limits.

EPRI LLW Assessments U.S. Results To Date



Overview of EPRI Advanced Nuclear Plant Radwaste Design Team Results

Westinghouse AP-1000



Team provided significant radwaste design input to GE for design certification

Design is flexible, mobile and focused on performance and cost

Team engaged in Radwaste Design review with Westinghouse

Team is now reviewing NRC COLA Guidance and updating Utility Design Requirements Document

General Electric ESBWR

