U.S. DEPARTMENT OF ENERGY
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

NUCLEAR WASTE TECHNICAL REVIEW BOARD

SUBJECT: WASTE ACCEPTANCE REQUIREMENTS

PRESENTER: ALAN B. BROWNSTEIN

PRESENTER'S TITLE AND ORGANIZATION: ACTING DIRECTOR
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Waste Acceptance Objective

The primary objective of Waste Acceptance is to achieve the legal and physical transfer of waste to the Federal Government from the Nation's owners and generators of spent nuclear fuel and high-level radioactive waste, once a Federal facility is ready to begin operations.

Overview

- The NWPA authorized DOE to enter into contracts with utilities
- The Standard Disposal Contract, adopted as 10CFR961, was signed with utilities in 1983
- The Contract defines the Waste Acceptance process including legal and operational responsibilities of DOE and the utilities
- In exchange for fees, DOE accepts and disposes of utilities' SNF

Contract Modifications

- DOE cannot unilaterally change the waste acceptance process detailed in the Contract, but some flexibility in waste selection is possible with utility concurrence
- The Contract can be changed only by a formal process which requires:
  - publication of a Notice of Proposed Rulemaking (NOPR) in the Federal Register
  - receipt and consideration of comments received on the NOPR
  - preparation and promulgation of the Final Rule
- This process will take two or more years.

Interface with MGDS

- Means used to achieve a desired repository thermal performance can be affected by the type, quantity, and schedule of waste to be accepted

Contract Waste Acceptance Process

- DOE allocates projected system acceptance capacity among utilities
  - Based on Acceptance Priority Ranking and projected system waste acceptance rates
  - Capacity allocated for 10 years
  - Allocations communicated to utilities through Annual Capacity Report (ACR)

Annual Capacity Report

Projected Waste Acceptance Rates

Year	SNF(MTU)
1998	400
1999	600
2000	900
2001	900
2002	900
2003	900
2004	900
2005	900
2006	900
2007	900
	8,200

Summary of Utilities' Annual Allocations (MTU)

UTILITY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8	YEAR 9	YEAR 10	TOTAL
ALABAMA POWER COMPANY	--	--	--	--	--	21.14	--	--	24.37	12.89	58.39
ARIZONA PUBLIC SERVICE	--	--	--	--	--	--	--	--	--	--	--
ARK POWER & LIGHT COMP	--	--	--	23.22	28.20	--	30.11	--	46.37	--	127.90
BABCOCK AND WILCOX COM	--	--	<0.01	0.02	--	--	--	--	--	--	0.02
BALTIMORE GAS & ELEC C	--	--	--	12.55	41.44	28.46	52.12	--	55.25	29.51	219.33
BOSTON EDISON COMPANY	--	70.08	24.31	23.69	50.45	32.00	20.59	93.08	--	49.50	363.70
CLEVELAND ELEC ILLUM C	--	--	--	--	--	--	--	--	--	--	--
COMMONWEALTH EDISON CO	21.10	60.43	153.85	121.01	163.76	175.30	66.84	107.76	98.17	98.15	1066.37
CONNECTICUT YANKEE ATO	65.46	22.47	19.75	21.77	21.81	20.19	--	21.81	--	21.83	215.09
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VERMONT YANKEE NUCLEAR	--	72.80	--	11.94	8.63	27.44	25.64	16.93	--	22.11	185.49
VIRGINIA POWER	--	8.17	69.38	43.85	54.69	20.14	23.40	32.88	28.97	52.78	334.27
WASH PUB POWER SUPPLY	--	--	--	--	--	--	--	--	--	--	--
WEST VALLEY DEMONSTRAT	--	--	--	--	--	--	--	--	--	--	--
WISCONSIN ELEC POWER C	6.28	43.01	19.77	27.07	36.74	24.83	9.64	12.84	16.07	21.73	227.97
WISCONSIN PUB SVC CORP	--	--	4.38	17.63	16.04	--	5.20	13.23	16.43	14.46	87.37
YANKEE ATOMIC ELEC COM	9.84	10.09	9.65	8.62	--	9.40	--	--	8.46	--	56.06
	400.24	599.92	899.79	900.17	900.14	699.74	899.36	899.77	900.10	899.55	8198.82

Waste Selection Flexibility

- Utilities have right to select any fuel over five years old
- Utility concurrence is needed for DOE to select fuel at either MPC loading or MPC acceptance.
- Thermal tailoring with the cooperation of utilities could support a variety of repository thermal loading strategies.
- Rulemaking could address this issue