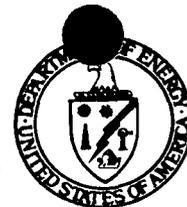


CONTRACT WASTE ACCEPTANCE PROCESS

**ALAN B. BROWNSTEIN
CHIEF, LOGISTICS AND UTILITY INTERFACE BRANCH
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT**

**NUCLEAR WASTE TECHNICAL REVIEW BOARD
TRANSPORTATION & SYSTEMS PANEL MEETING
SEPTEMBER 25, 1991
ARLINGTON, VA**

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT



WASTE MANAGEMENT SYSTEM FUNCTIONS

- **ACCEPT**
- **TRANSPORT**
- **STORE**
- **DISPOSE**



WASTE ACCEPTANCE PROCESS

Defined in the Nuclear Waste Policy Act and Specified in The Standard Contract for Disposal of Spent Nuclear Fuel and/or High-Level Radioactive Waste (10 CFR 961):

- **DOE is responsible for accepting, transporting, and disposing of Spent Nuclear Fuel (SNF) and High-Level Waste (HLW)**
- **Waste Owner is responsible for storage prior to DOE's acceptance, including selection of storage technology**

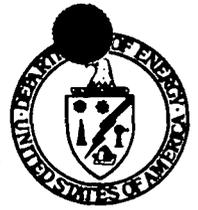


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STANDARD CONTRACT (10 CFR 961)

Established Legal Requirements and Operational Responsibilities for Interface between DOE and Individual Waste Owners:

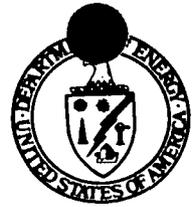
- **Administrative Matters**
- **Fees and Terms of Payment**
- **Waste Acceptance Criteria, Process, and Procedures**



CONTRACT STATISTICS

- **80 Contracts (70 with Utilities and 10 with Non-Utilities)**
- **66 Waste Owners (56 Utilities and 10 Non-Utilities)**
- **151 Facilities (122 Commercial and 29 Others)**

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CONTRACT WASTE ACCEPTANCE PROCESS

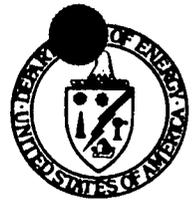
- **Waste Owner provides SNF data to DOE**
- **Contract establishes method for determining the order in which DOE will allocate available system capacity**
 - **Priority based on age of SNF (Oldest Fuel First)**
 - **Basis of priority determination is Waste Owners' submitted data**
 - **Priority communicated through Acceptance Priority Ranking (APR)**
- **DOE allocates system acceptance capacity among Waste Owners**
 - **Based on APR and system waste acceptance rate**
 - **Allocation communicated to Waste Owners through Annual Capacity Report (three issued to date)**

ACCEPTANCE PRIORITY RANKING

LISTING OF SPENT NUCLEAR FUEL BY DATE OF DISCHARGE

PURCHASER	FUEL ORIGINATOR	STORAGE LOCATION	TYPE	DISCHARGE		# OF		CUMULATIVE TOTAL MTU
				YEAR	MONTH	ASMB	MTU	
POWER AUTH OF NY STATE	FITZPATRICK	FITZPATRICK	BWR	1980	5	160	29.996	5884.16
INDIANA & MICH ELEC COMPANY	COOK 1	COOK 1	PWR	1980	5	65	27.889	5912.05
CAROLINA POWER & LIGHT COMPANY	BRUNSWICK 1	BRUNSWICK 1	BWR	1980	5	238	44.383	5956.43
CAROLINA POWER & LIGHT COMPANY	BRUNSWICK 1	HARRIS 1 BWR POOL	BWR	1980	5	7	1.306	5957.74
CAROLINA POWER & LIGHT COMPANY	ROBINSON 2	ROBINSON 2	PWR	1980	8	52	22.241	5979.98
CAROLINA POWER & LIGHT COMPANY	ROBINSON 2	HARRIS 1	PWR	1980	8	1	0.428	5980.40
COMMONWEALTH EDISON COMPANY	QUAD CITIES 1	QUAD CITIES 1	BWR	1980	8	224	42.360	6022.77
NORTHEAST UTIL SVC COMPANY	MILLSTONE 2	MILLSTONE 2	PWR	1980	8	73	27.980	6050.74
VIRGINIA POWER	SURRY 1	SURRY 2	PWR	1980	9	45	20.544	6071.29
VIRGINIA POWER	SURRY 1	SURRY 1	PWR	1980	9	27	12.341	6083.63
VERMONT YANKEE NUCLEAR POWER CORP	VERMONT YANKEE 1	VERMONT YANKEE 1	BWR	1980	9	92	16.930	6100.56
NORTHERN STATES POWER COMPANY	PRAIRIE ISLAND 1	PRAIRIE ISLAND 1	PWR	1980	9	40	15.987	6116.55
TENNESSEE VALLEY AUTHORITY	BROWNS FERRY 2	BROWNS FERRY 1	BWR	1980	9	352	65.923	6182.47
PUB SVC ELEC & GAS COMPANY	SALEM 1	SALEM 1	PWR	1980	9	64	29.441	6211.91
NORTHEAST UTIL SVC COMPANY	MILLSTONE 1	MILLSTONE 1	BWR	1980	10	168	31.104	6243.02
CONSOLIDATED EDISON COMPANY	INDIAN POINT 2	INDIAN POINT 2	PWR	1980	10	54	24.415	6267.43
BALTIMORE GAS & ELEC COMPANY	CALVERT CLIFFS 1	CALVERT CLIFFS 1	PWR	1980	10	70	27.116	6294.55
U.S. DOE	CALVERT CLIFFS 1	HANFORD-PWR	PWR	1980	10	1	0.388	6294.93
CONSUMERS POWER COMPANY	BIG ROCK 1	BIG ROCK 1	BWR	1980	11	22	2.825	6297.76
DAIRYLAND POWER COOP	LACROSSE	LACROSSE	BWR	1980	11	12	1.447	6299.21
WISCONSIN ELEC POWER COMPANY	POINT BEACH 1	POINT BEACH 1	PWR	1980	11	8	3.209	6302.41
FLORIDA POWER & LIGHT COMPANY	TURKEY POINT 4	TURKEY POINT 4	PWR	1980	11	36	16.484	6318.90
ALABAMA POWER COMPANY	FARLEY 1	FARLEY 1	PWR	1980	11	53	24.366	6343.27
TENNESSEE VALLEY AUTHORITY	BROWNS FERRY 3	BROWNS FERRY 3	BWR	1980	11	376	70.269	6413.53
GEORGIA POWER COMPANY	HATCH 2	HATCH 1	BWR	1980	11	76	13.976	6427.51
DUKE POWER COMPANY	OCONEE 3	OCONEE 1	PWR	1980	12	67	31.045	6458.56
DUKE POWER COMPANY	OCONEE 3	OCONEE 3	PWR	1980	12	1	0.465	6459.02
VIRGINIA POWER	NORTH ANNA 1	NORTH ANNA 1	PWR	1980	12	63	28.974	6487.99
COMMONWEALTH EDISON COMPANY	DRESDEN 2	DRESDEN 2	BWR	1981	1	226	42.200	6530.19
COMMONWEALTH EDISON COMPANY	ZION 1	ZION 1	PWR	1981	1	64	29.316	6559.51
ARK POWER & LIGHT COMPANY	ARKANSAS NUCLEAR 1	ARKANSAS NUCLEAR 1	PWR	1981	1	68	31.459	6590.97
SACRAMENTO MUNICIP UTIL DISTR	RANCHO SECO 1	RANCHO SECO 1	PWR	1981	1	41	18.921	6609.89

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CONTRACT WASTE ACCEPTANCE PROCESS (CONT'D)

- **Waste Owner submits (for DOE approval) Delivery Commitment Schedule (DCS)**
 - **Range of SNF to be delivered, specific delivery site, type of transport cask and shipping mode**
 - **At least 63 months prior to delivery**

- **With an approved DCS, Waste Owner can propose DCS exchanges (optional)**

- **Waste Owner submits Final Delivery Schedule**
 - **Expands information on DCS (range of delivery dates)**
 - **Submitted 12 months prior to delivery date**

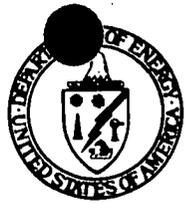
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CONTRACT WASTE ACCEPTANCE PROCESS (CONT'D)

- **Waste Owner submits specific fuel data 60 days prior to acceptance**
- **DOE provides cask, ancillary equipment, training, procedures**
- **Waste Owner loads cask**
- **DOE accepts SNF for delivery to DOE facility**

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EXAMPLES OF CASK-RELATED RESPONSIBILITIES

- **DOE Contractual Responsibilities for Casks**
 - **Suitable for use**
 - **Ancillary equipment**
 - **Written procedures**
 - **Documentation**
 - **Training**

- **Waste Owner's Contractual Responsibilities for Casks**
 - **Preparation, packaging, required inspections and loading activities**
 - **Detailed description of fuel**
 - **Incidental maintenance**

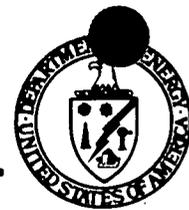


CONTRACT ISSUE RESOLUTION PROCESS

DOE recognized that the Contract contained insufficient detail to implement the waste acceptance process.

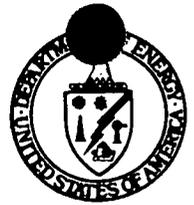
- **DOE and Waste Owners developed a cooperative process to address contract issues, some of which have transportation implications**
- **Challenges to resolving Contract issues**
 - **Retaining SNF/HLW management flexibility and equity among Waste Owners**
 - **Providing for effective and economical functioning of the waste management system**
- **Contract issue resolution process ongoing since 1987**

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ADVANTAGES OF CONTRACT ISSUE RESOLUTION PROCESS

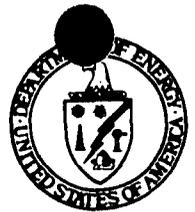
- **Forum to identify, discuss, and resolve issues in a straightforward, cooperative manner**
- **Provides DOE with a better understanding of Waste Owners' problems and priorities**
- **Provides Waste Owners with a better understanding of DOE concerns and requirements**
- **Alternative to litigation**



SAMPLE OF ISSUES

- **Acceptance Priority for Shutdown Reactors**
- **Priority for Emergencies**
- **Two Month/20 Percent DCS Adjustment**
- **FDS Adjustments for Full Cask Loads**
- **Definition of Failed Fuel**

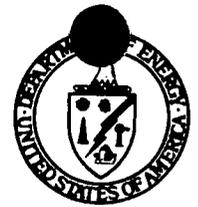
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STATUS OF CONTRACT ISSUE RESOLUTION PROCESS

- **Waste Owners have formally communicated consensus positions on these and other issues**
- **DOE is currently evaluating their input for use in developing its own positions**
- **DOE expects to communicate its position in early 1992**

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SUMMARY

- **In exchange for fees, DOE is to provide a waste management system to service Waste Owners' needs**
- **Contract details Waste Owner and DOE responsibilities for the waste acceptance process (DOE cannot unilaterally impose changes)**
- **Waste acceptance process described in the contract is complex and long-term**
- **DOE and Waste Owners have been implementing their contractual responsibilities since 1983**
- **Since 1987, DOE and Waste Owners have been actively cooperating to address and resolve issues of mutual importance**