US LWR SPENT FUEL INVENTORIES

September 1978

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Prepared for
Union Carbide Corporation, Nuclear Division
under subcontract
86X-42528V

by

James H. Allen

September 1978

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SPENT FUEL INVENTORY ANALYSIS

The spent fuel disposition of the utilities is changing month to month due to the shift in the nature and direction of private and government efforts to close the backend of the fuel cycle. This report provides inventory and projection information concerning fuel discharged from each US reactor that will refuel prior to 1991.

The assumptions used in this report are the same as those of its predecessor, "US LWR Spent Fuel Inventory and Projection," Y/OWI/SUB-77/42500. These assumptions are:

- there will be no reprocessing through the period of this report, and
- utilities will strive to maintain a full core reserve (FCR) at all times.

For each reactor, the following information is provided.

- Utility/Reactor/Reactor Type
- Thermal and Net Electrical Rating
- Spent Fuel Storage Capacity and Inventory
- Discharge Schedule and Probable Ultimate Location of the Fuel.

Assembly Location

The notation for final disposition of the spent fuel was coined exclusively for this report. In most cases, the fuel will be discharged, remain in the reactor storage pool for a short period of time, and then be shipped to some unspecified Away-From-Reactor (AFR) storage location. For this case the notation

R, A(year)

is used to indicate that the fuel must be shipped in the specified year to maintain FCR in the pool. Where a utility plans to maintain only partial FCR in a pool, a notation is made in the "Comments" section.

This "mass balance" relationship is bounded by two assumptions.

- the spent fuel must cool for six months following discharge from the reactor, and
- for uniformity, it is assumed that the batch of fuel is shipped six months prior to the discharge of spent fuel which would cause the loss of FCR in the pool.

Actual locations are given for fuel which was previously shipped. Historical shipments are not accompanied by dates. Also, for planned shipments to specified locations -- either an established AFR storage facility or another reactor --, the facility is indicated with the expected year of shipment in a format similar to shipments projected to the unspecified

AFR facility. For example,

R, BSEP(1980)

indicates spent fuel will be located at the reactor until 1980 when it is planned for shipment to the Brunswick Steam Electric Plant.

Table 1 presents both the short and long names of the actual AFR and reactor storage locations.

Nuclear Generating Capacity Projections

The utility reported commercial operation dates were reviewed to determine if the construction progress did not support the projected fuel loading dates. The analysis revealed that it is possible to construct a nuclear plant in 48 months (depending on licensing, utility funding level, etc.), but current experience supports an average construction period of approximately 100 months for plants beginning operation in 1979.

The wide scatter of construction experience makes defensible projections difficult for plants more than about 3 1/2 years from fuel loading. However, the analysis did indicate four plants whose construction progress versus expected fuel loading date was not consistent with recent experience.

Specific reactors which may delay are:

- Farley-2 - Unit is reported 51% complete with only 18 months to scheduled fuel loading. A delay of approximately 6 months can be expected.
- Arkansas Nuclear One-2 - Unit is experiencing construction associated delays. Fuel loading should slip approximately 5 months.

Table 1

Glossary of Storage Locations

<u>Short Name</u>	<u>Long Name</u>
B&W	Babcock and Wilcox
BNL	Battelle Northwest Laboratories
BSEP	Brunswick Steam Electric Plant
C-1	Catawba-1
C-2	Catawba-2
CH-1	Cherokee-1
CH-2	Cherokee-2
CH-3	Cherokee-3
CR	Crystal River-3
D-2	Dresden-2
INEL	Idaho National Engineering Laboratory
IP-1	Indian Point-1
M-3	Millstone-3
MG-1	McGuire-1
MG-2	McGuire-2
MSF	Midwest Storage Facility (GE)
NFS	Nuclear Fuel Services, Inc.
O	Oconee
SR	Savannah River Plant
TP-4	Turkey Point-4
VAL	Vallecitos (GE)

- Pilgrim-2 - Utility is re-evaluating construction start date. A more realistic commercial operation date is June 1989.
- Catawba-1 - Unit is reported 26% complete with only 32 months until scheduled fuel loading. A delay of up to 12 months can be expected.
- Diablo Canyon-1 and -2 - Further delay is possible due to design changes required by seismic re-analysis. Delay cannot be quantified.

Recent history also bears out the fact that several more reactors will probably slip due to unquantifiable delays such as licensing slip and intervention by public interest groups. Analysis of the change in utility reported commercial operation dates as contained in the Fuel-Trac Data and Analysis System indicates that on the average, the U.S. nuclear generating capacity contained in Fuel-Trac will be optimistic by about 4,000 megawatts per year. The conclusions of this analysis are summarized in the table below.

Generating Capacity (GW)

<u>Year</u>	<u>Utility Projected</u>	<u>Modified Utility Projections</u>	<u>U.S. DOE Projections</u>		
			<u>Low</u>	<u>Med.</u>	<u>High</u>
1980	73	61	-	-	-
1985	143	112	100	111	122
1990	196	145	157	172	192

The data indicate that this analysis is valid for the short term. However, generating capacity projections after 1985

contain many reactors now only in the planning and design phase. Since these reactors are most subject to delays it is possible that both utility and U.S. DOE projections for 1990 may be optimistic.

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Cross Reference Indices

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Arkansas Nuclear One 2	PWR	39
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Bailly	BWR	127
Beaver Valley 1	PWR	89
Beaver Valley 2	PWR	90
Bellefonte 1	PWR	174
Bellefonte 2	PWR	175
Big Rock Point	BWR	70
Black Fox 1	BWR	161
Black Fox 2	BWR	162
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Browns Ferry 2	BWR	177
Browns Ferry 3	BWR	178
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Callaway County 1	PWR	196
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Catawba 2	PWR	79
Cherokee 1	PWR	80
Cherokee 2	PWR	81
Cherokee 3	PWR	82
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Clinton 2	BWR	103
Cooper	BWR	118
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Connecticut Yankee	PWR	67
Crystal River 3	PWR	91
Davis Besse 1	PWR	193
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Davis Besse 3	PWR	195
Diablo Canyon 1	PWR	135
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Washington	WPPSS 1	207
	WPPSS 2	208
	WPPSS 3	209
	WPPSS 4	210
	WPPSS 5	211
	Skagit 1	163
	Skagit 2	164
Wisconsin	Point Beach 1	204
	Point Beach 2	205
	Kewaunee	206
	La Crosse	74
	Haven 1	203

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Reactor Type/Operation Date

<u>Reactor Type</u>	<u>Operation Date</u>	<u>Reactor Name</u>	<u>Capacity MWe (net)</u>	<u>Page</u>
Boiling Water Reactor (BWR)	1960	Dresden 1	200	58
	1963	Humboldt Bay 3	63	137
	1965	Big Rock Point	72	70
	1969	Oyster Creek	650	108
		Nine Mile Point 1	610	121
		La Crosse	50	74
	1970	Dresden 2	809	59
		Millstone 1	650	123
	1971	Dresden 3	809	60
		Monticello	545	128
	1972	Pilgrim 1	670	42
		Vermont Yankee	514	198
	1973	Quad Cities 1	783	63
		Quad Cities 2	783	64
	1974	Cooper	778	118
		Peach Bottom 2	1065	144
		Peach Bottom 3	1065	145
		Browns Ferry 1	1067	176
	1975	Brunswick 2	821	45
		Duane Arnold	538	106
		Browns Ferry 2	1067	177
		Fitzpatrick	821	149
	1976	Hatch 1	786	96
	1977	Browns Ferry 3	1067	178
		Brunswick 1	821	44
	1978	Hatch 2	795	97
	1979	Zimmer 1	810	50
		La Salle 1	1078	61

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Reactor Type/Operation Date

<u>Reactor Type</u>	<u>Operation Date</u>	<u>Reactor Name</u>	<u>Capacity MWe (net)</u>	<u>Page</u>
	1980	WPPSS 2	1103	208
		La Salle 2	1078	62
		Fermi 2	1093	75
		Shoreham	819	111
	1981	Grand Gulf 1	1250	116
		Perry 1	1205	52
		Susquehanna 1	1050	140
	1982	Bailly	660	127
		Susquehanna 2	1050	141
		Clinton 1	950	102
	1983	Perry 2	1205	53
		Hartsville 1	1233	179
		Hartsville 3	1233	181
		Nine Mile Point 2	1100	122
	1984	River Bend 1	950	100
		Grand Gulf 2	1250	117
		Hope Creek 1	1067	153
		Hartsville 2	1233	180
		Hartsville 4	1233	182
		Phipps Bend 1	1233	183
		Black Fox 1	1150	161
	1985	Limerick 1	1064	142
		Allens Creek 1	1150	101
		PG&E 1	1086	138
		Phipps Bend 2	1233	184
		Skagit 1	1288	164
	1986	Black Fox 2	1150	162
		Hope Creek 2	1067	154
		PG&E 2	1086	139
	1987	Limerick 2	1064	143
		Skagit 2	1288	164
	1988	Clinton 2	950	103
	1989	Montague 1	1150	126
		Zimmer 2	1125	51

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Reactor Type/Operation Date

<u>Reactor Type</u>	<u>Operation Date</u>	<u>Reactor Name</u>	<u>Capacity MWe (net)</u>	<u>Page</u>
Pressurized Water Reactor (PWR)	1961	Yankee Rowe	172	212
		Indian Point 1	215	68
	1968	Connecticut Yankee	570	67
		San Onofre 1	430	171
	1970	Point Beach 1	497	204
		R.E. Ginna	490	165
	1971	H.B. Robinson 2	707	46
	1972	Turkey Point 3	745	94
		Maine Yankee	790	113
		Surry 1	788	201
		Point Beach 2	497	205
	1973	Zion 1	1035	65
		Indian Point 2	873	69
		Palisades	821	73
		Oconee 1	886	85
		Turkey Point 4	745	95
		Prairie Island 1	530	129
		Fort Calhoun 1	457	134
		Surry 2	788	202
	1974	Arkansas Nuclear 1	845	38
		Zion 2	1035	66
		Oconee 2	886	86
		Oconee 3	886	87
		Three Mile Island 1	819	114
		Prarie Island 2	530	130
		Kewaunee	530	206
	1975	Calvert Cliffs 1	845	40
		Millstone 2	828	124
		Rancho Seco	913	167
		D.C. Cook 1	1054	104

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Reactor Type/Operation Date

<u>Reactor Type</u>	<u>Operation Date</u>	<u>Reactor Name</u>	<u>Capacity MWe (net)</u>	<u>Page</u>
	1976	Beaver Valley 1	852	89
		St. Lucie 1	801	92
		Trojan	1130	148
		Indian Point 3	965	151
	1977	Salem 1	1090	155
		Farley 1	829	33
		Calvert Cliffs 2	845	41
		Crystal River 3	825	91
	1978	Arkansas Nuclear 2	912	39
		D.C. Cook 2	1054	105
		Three Mile Island 2	906	115
		North Anna 1	855	199
		Davis Besse 1	906	193
	1979	Sequoyah 1	1148	185
		McGuire 1	1180	83
		Salem 2	1115	156
		Watts Bar 1	1177	187
		Diablo Canyon 1	1060	135
		Diablo Canyon 2	1060	136
	1980	Farley 2	829	34
		San Onofre 2	1140	172
		South Texas 1	1250	169
		Sequoyah 2	1148	186
		Watts Bar 2	1177	188
		Bellefonte 1	1213	174
		Virgil Summer	900	168
		North Anna 2	866	200
	1981	Braidwood 1	1120	54
		Midland 2	792	72
		Catawba 1	1153	78
		Bellefonte 2	1213	175
		Byron 1	1120	56
		Comanche Peak 1	1150	191
		McGuire 2	1180	84

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Reactor Type/Operation Date

<u>Reactor Type</u>	<u>Operation Date</u>	<u>Reactor Name</u>	<u>Capacity MWe (net)</u>	<u>Page</u>
	1982	WPPSS 1	1218	207
		Seabrook 1	1150	159
		Palo Verde 1	1270	35
		Callaway 1	1160	196
		Braidwood 2	1120	55
		Byron 2	1120	57
		Midland 1	792	71
		Beaver Valley 2	852	90
		South Texas 2	1250	170
		San Onofre 3	1140	173
		Marble Hill 1	1130	157
		Waterford 3	1113	112
	1983	Catawba 2	1153	79
		Wolf Creek	1158	109
		Comanche Peak 2	1150	192
		St. Lucie 2	801	93
		Forked River	1070	107
	1984	Palo Verde 2	1270	36
		Shearon Harris 1	900	47
		Seabrook 2	1150	160
		WPPSS 3	1237	209
		WPPSS 4	1218	210
		Marble Hill 2	1130	158
		Vogtle 1	1121	98
	1985	Cherokee 1	1280	80
		Yellow Creek 1	1339	189
		Davis Besse 2	906	194
		WPPSS 5	1237	211
		Pilgrim 2	1180	43
		Tyrone 1	1160	131
		Vogtle 2	1121	99
	1986	Erie 1	1260	132
		Greene County	1200	150
		Millstone 3	1156	125
		NEES 1	1150	119
		Palo Verde 3	1270	37
		Pebble Springs 1	1260	146
		Shearon Harris 2	900	48
		Yellow Creek 2	1300	190
		Sterling	1157	166
	1987	Callaway County 2	1160	197
		Cherokee 2	1280	81
		Davis Besse 3	906	195
		Greenwood 2	1200	76
		Haven 1	900	203

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Reactor Type/Operation Date

<u>Reactor Type</u>	<u>Operation Date</u>	<u>Reactor Name</u>	<u>Capacity MWe (net)</u>	<u>Page</u>
	1988	Atlantic 1	1160	152
		Erie 2	1260	133
		NEES 2	1150	120
		Jamesport 1	1160	110
		Perkins 1	1280	88
		Shearon Harris 4	900	49
	1989	Cherokee 3	1280	82
		Greenwood 3	1200	77
		Pebble Springs 2	1260	147

Section 2

U.S. Away-From-Reactor Storage Capability

AFR storage capacity is at a premium. Even though the utilities are continuing to expand their storage pool capacities, many reactors require additional efforts (such as complex inter-pool fuel transfer schemes) in order to continue normal operation. The current status of U.S. AFR storage facilities is given below.

- Nuclear Fuel Services (NFS) - NFS has withdrawn from the commercial reprocessing business and is no longer accepting fuel for AFR storage. The current spent fuel inventory is approximately 165 MTU. The inventory of fuel at NFS is shown in Table 2. Fuel currently stored at NFS may have to be shipped back to the utility owner or another AFR in 1981.
- GE Midwest Storage Facility (MSF) - Although the GE fuel reprocessing plant at Morris, Illinois, was declared inoperable in its present configuration, the storage pools are utilized as an AFR operation. The current storage capacity is approximately 700 MTU. Currently, the reserve capacity is 353 MTU. GE at one time began licensing action for an 1100 MTU capacity increase. However, the licensing proceedings have since been suspended. The inventory of fuel at MSF is shown in Table 3.
- Allied General Nuclear Services (AGNS) - The storage facility at the AGNS reprocessing plant is current racked to accommodate approximately 360 MTU of spent fuel. At the present time, it is not envisioned that the partnership will operate the facility as a commercial AFR storage operation or spend further capital on expanding the storage capacity.

In addition the U.S. DOE has announced intentions to construct an AFR of 5000 MTU capacity. The current stated schedule calls for initial operations in 1983. There are various options possible (among them - construct an AFR, purchase and enlarge

Table 2

Spent Fuel Inventory - NFS, Inc.

fuel-trac®
September 1978

<u>Reactor/Type</u>	<u>Fuel in Storage (FA)</u>	<u>Fuel Under Contract (FA)</u>
Big Rock Point/BWR	85	-
Dresden-1/BWR	69	-
R.E. Ginna-1/PWR	121	-
Point Beach-1/PWR	114	-
Oyster Creek/BWR	224	-

Table 3

Spent Fuel Inventory - MSF

fuel-trac®
September 1978

<u>Reactor/Type</u>	<u>Fuel in Storage (FA)</u>	<u>Fuel Under Contract (FA)</u>
Connecticut Yankee/PWR	80	-
Dresden-2/BWR	753	-
Point Beach-1/PWR	9	-
Point Beach-2/PWR	100	-
San Onofre-1/PWR	254	104

the AGNS facility, support the stated TVA AFR plans), and at this time, the eventual outcome is uncertain.

Section 3

Reactor Discharge Inventory and Projection

This section contains a detailed spent fuel inventory and projection analysis for each U.S. light water reactor currently operational or expected to discharge fuel prior to January 1, 1991.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Alabama Power Co. / Joseph M. Farley - 1 / PWR
MW_t/MW_e (net) : 2652/829
Commercial Operation Date : 12/77
Storage Pool Size (FA) - Current: 675 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
1/79	52	R, A(1987)
1/80	52	R, A(1988)
1/81	52	R, A(1989)
1/82	52	R, A(1990)
1/83	52	R, A(1991)
1/84	52	R, A(1992)
1/85	52	R, A(1993)
1/86	52	R, A(1994)
1/87	52	R, A(1995)
1/88	52	R, A(1996)
1/89	52	R, A(1997)
1/90	52	R, A(1998)

Comments: The spent fuel storage pool was expanded from the initial size of 212 fuel assemblies. The utility considers the current pool size to be the maximum and has indicated no plans for further expansion. The racks are high density, non-poison type.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Alabama Power Co. / Joseph M. Farley - 2 / PWR
MW_t/MW_e (net) : 2652/829
Commercial Operation Date : 4/80
Storage Pool Size (FA) - Current: 675 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/81	52	R, A(1990)
4/82	52	R, A(1991)
4/83	52	R, A(1992)
4/84	52	R, A(1993)
4/85	52	R, A(1994)
4/86	52	R, A(1995)
4/87	52	R, A(1996)
4/88	52	R, A(1997)
4/89	52	R, A(1998)
4/90	52	R, A(1999)

Comments: The spent fuel storage pool was expanded from the initial size of 212 fuel assemblies. The utility considers the current pool size to be the maximum and has indicated no plans for further expansion. The racks are high density, non-poison type. Construction progress is not consistent with recent experience. A delay of approximately 6 months could be expected.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Arizona Public Service Co. / Palo Verde - 1 / PWR
MW_t/MW_e (net) : 3817/1270
Commercial Operation Date : 5/82
Storage Pool Size (FA) - Current: 321 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/83	80	R, A(1984)
8/84	81	R, A(1985)
8/85	80	R, A(1986)
8/86	80	R, A(1987)
8/87	81	R, A(1988)
8/88	80	R, A(1989)
8/89	80	R, A(1990)
8/90	81	R, A(1991)

Comments: The utility is currently considering expansion of the pool capacity to 723 fuel assemblies. Double this expanded capacity is possible using high density, poison racks.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Arizona Public Service Co. / Palo Verde - 2 / PWR
MW_t/MW_e (net) : 3817/1270
Commercial Operation Date : 5/84
Storage Pool Size (FA) - Current: 321 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/85	80	R, A(1986)
10/86	81	R, A(1987)
10/87	80	R, A(1988)
10/88	80	R, A(1989)
10/89	81	R, A(1990)
10/90	80	R, A(1991)

Comments: The utility is currently considering expansion of the pool capacity to 723 fuel assemblies. Double this expanded capacity is possible using high density, poison racks.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Arizona Public Service Co. / Palo Verde - 3 / PWR
MW_t/MW_e (net) : 3817/1270
Commercial Operation Date : 5/86
Storage Pool Size (FA) - Current: 321 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/87	80	R, A(1988)
8/88	81	R, A(1989)
8/89	80	R, A(1990)
8/90	80	R, A(1991)

Comments: The utility is currently considering expansion of the pool capacity to 723 fuel assemblies. Double this expanded capacity is possible using high density, poison racks.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Arkansas Power & Light Co. / Arkansas Nuclear One-1 / PWR
MW_t/MW_e (net) : 2568/845
Commercial Operation Date : 12/74
Storage Pool Size (FA) - Current: 590 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 112

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
1/77	56	R, A(1986)
2/78	56	R, A(1987)
3/79	60	R, A(1989)
9/80	56	R, A(1990)
3/82	61	R, A(1992)
9/83	60	R, A(1993)
3/85	56	R, A(1995)
9/86	61	R, A(1996)
3/88	60	R, A(1998)
9/89	56	R, A(1999)

Comments: The utility expanded the reactor storage pool in late 1976 with high density, non-poison racks, and indicates that the current pool size is maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Arkansas Power & Light Co. / Arkansas Nuclear One - 2 / PWR
MW_t/MW_e (net) : 2760/912
Commercial Operation Date : 7/78
Storage Pool Size (FA) - Current: 486 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/79	60	R, A(1984)
9/80	61	R, A(1985)
9/81	56	R, A(1986)
9/82	60	R, A(1987)
9/83	61	R, A(1988)
9/84	56	R, A(1989)
9/85	60	R, A(1990)
9/86	61	R, A(1991)
9/87	56	R, A(1992)
9/88	60	R, A(1993)
9/89	61	R, A(1994)
9/90	56	R, A(1995)

Comments: The utility upgraded the pool capacity during construction using high density stainless steel racks and considers the current pool capacity as maximum. This unit is experiencing construction associated delays, and fuel loading could slip approximately 5 months.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Baltimore Gas & Electric Co. / Calvert Cliffs - 1 / PWR
MW_t/MW_e (net) : 2700/845
Commercial Operation Date : 5/75
Storage Pool Size (FA) - Current: 410 Expanded: 1056 Date: 1980
Storage Pool Inventory (FA): 144

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
1/77	72	R, A(1983)
3/78	72	R, A(1985)
2/79	72	R, A(1986)
2/80	84	R, A(1988)
8/81	84	R, A(1989)
2/83	84	R, A(1991)
8/84	84	R, A(1992)
2/86	84	R, A(1994)
8/87	84	R, A(1995)
2/89	84	R, A(1997)
8/90	84	R, A(1990)

Comments: The Calvert Cliffs - 1 and 2 spent fuel storage pools are interconnected, and therefore are considered common for this analysis due to the ease of fuel movement between pools. In 1978, the storage capacity pool was expanded to 718 fuel assemblies on an interim basis.

The utility has an option to use poison racks for the final phase of pool expansion. If it takes the option, total pool capacity would be 1748 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Baltimore Gas & Electric Co. / Calvert Cliffs - 2 / PWR
MW_t/MW_e (net) : 2700/845
Commercial Operation Date : 4/77
Storage Pool Size (FA) - Current: 410 Expanded: 1056 Date: 1980
Storage Pool Inventory (FA): 144

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/78	88	R, A(1982)
10/79	72	R, A(1984)
10/80	84	R, A(1985)
4/82	84	R, A(1987)
10/83	84	R, A(1988)
4/85	84	R, A(1990)
10/86	84	R, A(1991)
4/88	84	R, A(1993)
10/89	84	

Comments: The Calvert Cliffs - 1 and 2 spent fuel storage pools are interconnected, and therefore are considered common for this analysis due to the ease of fuel movement between pools. In 1978, the storage capacity pool was expanded to 718 fuel assemblies on an interim basis.

The utility has an option to use poison racks for the final phase of pool expansion. If it takes the option, total pool capacity would be 1748 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Boston Edison Co. / Pilgrim Station - 1 / BWR
MW_t/MW_e (net) : 1998/670
Commercial Operation Date : 12/72
Storage Pool Size (FA) - Current: 880 Expanded: 2320 Date: 1979
Storage Pool Inventory (FA): 580

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
12/73	20	R, A(1988)
1/76	132	R, A(1988)
8/77	428	R, A(1989)
1/80	128	R, A(1990)
1/81	124	R, A(1991)
1/82	116	R, A(1992)
1/83	108	R, A(1993)
1/84	120	R, A(1994)
1/85	108	R, A(1995)
1/86	116	R, A(1996)
1/87	112	R, A(1997)
1/88	116	R, A(1998)
1/89	116	R, A(1999)
1/90	116	R, A(2000)

Comments: The Pilgrim - 1 unit lost full core discharge capability during the 1977 refueling outage. This capability will be regained upon expansion of the storage pool.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Boston Edison Co. / Pilgrim Station - 2 / PWR
MW_t/MW_e (net) : 3390/1180
Commercial Operation Date : 6/85
Storage Pool Size (FA) - Current: 2000 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
7/86	72	R, A(2010)
7/87	73	R, A(2011)
7/88	72	R, A(2012)
7/89	72	R, A(2013)
7/90	73	R, A(2014)

Comments: The construction schedule for Pilgrim - 2 is uncertain.
It is estimated that the plant construction will start
in 1980-81. The current commercial operation date is
probably unachievable and could slip several years.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Carolina Power & Light Co. / Brunswick - 1 / BWR
MW_t/MW_e (net) : 2436/821
Commercial Operation Date : 3/77
Storage Pool Size (FA) - Current: 1090 BWR Expanded: N/A Date: N/A
128 PWR
Storage Pool Inventory (FA): 98 PWR / 0 BWR

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/79	212	R, A(1982)
6/80	156	R, A(1983)
6/81	124	R, A(1984)
6/82	152	R, A(1985)
6/83	144	R, A(1986)
6/84	144	R, A(1987)
6/85	144	R, A(1988)
6/86	144	R, A(1989)
6/87	148	R, A(1990)
6/88	144	R, A(1991)
6/89	144	R, A(1992)
6/90	144	R, A(1993)

Comments: The storage pool capacity was expanded from 720 fuel assemblies in 1977-78. The Shearon Harris units tentatively will be used for additional storage capacity after 1983 if necessary.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Carolina Power & Light Co. / Brunswick - 2 / BWR
MW_t/MW_e (net) : 2436/821
Commercial Operation Date : 11/75
Storage Pool Size (FA) - Current: 990 BWR Expanded: N/A Date: N/A
176 PWR
Storage Pool Inventory (FA): 0 PWR / 144 BWR

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/77	4	R, A(1979)
9/77	140	R, A(1979)
5/79	164	R, A(1980)
5/80	136	R, A(1981)
5/81	132	R, A(1982)
5/82	144	R, A(1983)
5/83	140	R, A(1984)
5/84	136	R, A(1985)
5/85	140	R, A(1986)
5/86	140	R, A(1987)
5/87	140	R, A(1988)
5/88	144	R, A(1989)
5/89	136	R, A(1990)
5/90	140	R, A(1991)

Comments: The storage pool capacity was expanded from 720 fuel assemblies in 1977-78. The Shearon Harris units tentatively will be used for additional storage capacity after 1983 if necessary.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Carolina Power & Light Co. / H. B. Robinson - 2 / PWR
MW_t/MW_e (net) : 2200/707
Commercial Operation Date : 3/71
Storage Pool Size (FA) - Current: 276 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 221

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/73	1	INEL
3/73	52	BSEP
5/74	104	R, BSEP (1978) *
10/75	56	R, BSEP (1979)
11/76	53	R, BSEP (1979)
1/78	53	R, BSEP (1980)
4/79	52	R, BSEP (1980)
4/80	53	R, BSEP (1981)
4/81	52	R, BSEP (1982)
4/82	49	R, BSEP (1983)
	4	R, A (1983)
4/83	52	R, A (1984)
4/84	53	R, A (1985)
4/85	52	R, A (1986)
4/86	53	R, A (1987)
4/87	52	R, A (1988)
4/88	53	R, A (1989)
4/89	52	R, A (1990)
4/90	53	R, A (1991)

Comments: Through the shipment schedule, the utility plans to regain full core reserve by the 1979 discharge. The fuel will tentatively be shipped to the Shearon Harris plant after 1983 if necessary.

* Currently shipping.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Carolina Power & Light Co. / Shearon Harris - 1 / PWR
MW_t/MW_e (net) : 2775/900
Commercial Operation Date : 3/84
Storage Pool Size (FA) - Current: 368 Expanded: 959 Date: 1983
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/85	53	R, A(1994)
8/86	52	R, A(1995)
8/87	53	R, A(1996)
8/88	52	R, A(1997)
8/89	53	R, A(1998)
8/90	52	R, A(1999)

Comments: Shearon Harris - 1 and - 4 share a common spent fuel storage pool.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Carolina Power & Light Co. / Shearon Harris - 2 / PWR
MW_t/MW_e (net) : 2775/900
Commercial Operation Date : 3/86
Storage Pool Size (FA) - Current: 372 Expanded: 970 Date: 1985
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/87	53	R, A(1996)
8/88	52	R, A(1997)
8/89	53	R, A(1998)
8/90	52	R, A(1999)

Comments: Shearon Harris - 2 and - 3 share a common spent fuel storage pool.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Carolina Power & Light Co. / Shearon Harris - 4 / PWR
MW_t/MW_e (net) : 2775/900
Commercial Operation Date : 3/88
Storage Pool Size (FA) - Current: 368 Expanded: 959 Date: 1983
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/89	53	R, A(1993)
8/90	52	R, A(1994)

Comments: Shearon Harris - 1 and - 4 share a common spent fuel storage pool.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Cincinnati Gas & Electric Co. / W. H. Zimmer - 1 / BWR
MW_t/MW_e (net) : 2436/810
Commercial Operation Date : 12/79
Storage Pool Size (FA) - Current: 1120 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/81	180	R, A(1983)
8/82	160	R, A(1984)
8/83	140	R, A(1985)
8/84	140	R, A(1986)
8/85	140	R, A(1987)
8/86	140	R, A(1988)
8/87	140	R, A(1989)
8/88	140	R, A(1990)
8/89	140	R, A(1991)
8/90	140	R, A(1992)

Comments: The utility considers the maximum capacity of the spent fuel pool to be 2366 fuel assemblies utilizing high density, poison racks. However, no spent fuel pool expansion plans currently exist.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Cincinnati Gas & Electric Co. / W.H. Zimmer - 2 / BWR
MW_t/MW_e (net) : 3579/1125
Commercial Operation Date : 1/89
Storage Pool Size (FA) - Current: N/A Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/90	268	R, A(unknown)

Comments: The size of the spent fuel pool for this unit has not yet been chosen.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Cleveland Electric Illuminating Co. / Perry - 1 / BWR
MW_t/MW_e (net) : 3579/1205
Commercial Operation Date : 12/81
Storage Pool Size (FA) - Current: 1870 Expanded: 4000 Date: 1981
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
7/83	260	R, A(1993)
1/85	224	R, A(1994)
7/86	224	R, A(1996)
1/88	224	R, A(1997)
7/89	224	R, A(1999)

Comments: Perry - 1 and - 2 have a common spent fuel storage pool.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Cleveland Electric Illuminating Co./ Perry - 2 / BWR
MW_t/MW_e (net) : 3579/1205
Commercial Operation Date : 6/83
Storage Pool Size (FA) - Current: 1870 Expanded: 4000 Date: 1981
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
1/84	260	R, A(1993)
7/85	224	R, A(1994)
1/87	224	R, A(1996)
7/88	224	R, A(1997)
1/90	224	R, A(1999)

Comments: Perry - 1 and - 2 have a common spent fuel storage pool.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison Co. / Braidwood - 1 / PWR
MW_t/MW_e (net) : 3411/1120
Commercial Operation Date : 10/81
Storage Pool Size (FA) - Current: 1050 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/83	64	R, A(1989)
4/84	64	R, A(1990)
4/85	64	R, A(1991)
4/86	64	R, A(1992)
4/87	64	R, A(1993)
4/88	64	R, A(1994)
4/89	64	R, A(1995)
4/90	64	R, A(1996)

Comments: Briadwood - 1 and - 2 share a common pool.

At one time, the utility had envisioned a complex inter-plant spent fuel transfer scheme as a storage alternate but has been unable to gain permission for the first phase -- Dresden to Quad Cities BWR fuel shuffle.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison Co. / Braidwood - 2 / PWR
MW_t/MW_e (net) : 3411/1120
Commercial Operation Date : 10/82
Storage Pool Size (FA) - Current: 1050 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/84	64	R, A(1989)
4/85	64	R, A(1990)
4/86	64	R, A(1991)
4/87	64	R, A(1992)
4/88	64	R, A(1993)
4/89	64	R, A(1994)
4/90	64	R, A(1995)

Comments: Braidwood - 1 and - 2 share a common pool.

At one time, the utility had envisioned a complex inter-plant spent fuel transfer scheme as a storage alternate but has been unable to gain permission for the first phase - Dresden to Quad Cities BWR fuel shuffle.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison Co. / Byron - 1 / PWR
MW_t/MW_e (net) : 3411/1120
Commercial Operation Date : 10/81
Storage Pool Size (FA) - Current: 1050 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/83	64	R, A(1989)
4/84	64	R, A(1990)
4/85	64	R, A(1991)
4/86	64	R, A(1992)
4/87	64	R, A(1993)
4/88	64	R, A(1994)
4/89	64	R, A(1995)
4/90	64	R, A(1996)

Comments: Byron - 1 and - 2 share a common pool.

At one time, the utility had envisioned a complex inter-plant spent fuel transfer scheme as a storage alternate but has been unable to gain permission for the first phase -- Dresden to Quad Cities BWR fuel shuffle.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison Co. / Byron - 2 / PWR
MW_t/MW_e (net) : 3411/1120
Commercial Operation Date : 10/82
Storage Pool Size (FA) - Current: 1050 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/84	64	R, A(1989)
4/85	64	R, A(1990)
4/86	64	R, A(1991)
4/87	64	R, A(1992)
4/88	64	R, A(1993)
4/89	64	R, A(1994)
4/90	64	R, A(1995)

Comments: Byron - 1 and - 2 share a common pool.

At one time, the utility had envisioned a complex inter-plant spent fuel transfer scheme as a storage alternate but has been unable to gain permission for the first phase -- Dresden to Quad Cities BWR fuel shuffle.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison / Dresden-1 / BWR

MW_t/MW_e (net) : 700/200

Commercial Operation Date : 8/60

Storage Pool Size (FA) - Current: 720 Expanded: N/A Date: N/A

Storage Pool Inventory (FA): 221

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u></u>
11/62	1	VAL
11/62	8	SR
11/62	181	NFS
6/64	97	NFS
3/65	200	NFS
1/67	106	NFS
2/68	96	NFS
9/69	96	NFS
9/71	113	NFS
9/71	1	B&W
9/71	2	INEL
9/71	4	R, D-2 (1979)
10/73	50	R, D-2 (1979)
9/74	30	R, D-2 (1980)
9/75	66	R, D-2 (1980)
6/77	66	R, D-2 (1981)
11/78	76	R, D-2 (1982)
9/80	66	R, D-2 (1983)
9/81	66	R, D-2 (1984)
9/82	66	R, D-2 (1985)
9/83	66	R, D-2 (1986)
9/84	66	R, D-2 (1987)
9/85	66	R, D-2 (1988)
9/86	66	R, D-2 (1989)
9/87	66	R, D-2 (1990)
9/88	66	R, A (1991)
9/89	66	R, A (1992)
9/90	66	R, A (1993)

Comments: The utility does not plan to expand the storage capacity of this pool. Plans exist to shuffle fuel to Dresden-2 from Dresden-1; however, authorization is pending.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison / Dresden-2 / BWR
MW_t/MW_e (net) : 2527/809
Commercial Operation Date : 8/70
Storage Pool Size (FA) - Current: 1160 Expanded: 3350 Date: 1980
Storage Pool Inventory (FA): 509

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/70	29	MSF
2/71	215	MSF
2/72	509	MSF
11/74	156	R, A(1989)
3/76	156	R, A(1991)
9/77	196	R, A(1992)
8/79	168	R, A(1994)
2/81	176	R, A(1995)
8/82	176	R, A(1997)
2/84	176	R, A(1998)
8/85	176	R, A(2000)
2/87	176	R, A(2001)
8/88	176	R, A(2003)
2/90	176	R, A(2004)

Comments: The pool capacity will be expanded to 1420 fuel assemblies on an interim basis. The utility desires to use this pool to store fuel assemblies from Dresden-1.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison Co. / Dresden - 3 / BWR
MW_t/MW_e (net) : 2527/809
Commercial Operation Date : 9/71
Storage Pool Size (FA) - Current: 1160 Expanded: 3350 Date: 1980
Storage Pool Inventory (FA): 560

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/73	52	R, A(1992)
3/74	44	R, A(1992)
4/75	140	R, A(1994)
9/76	148	R, A(1994)
3/78	176	R, A(1995)
10/79	212	R, A(1997)
4/81	212	R, A(1998)
10/82	212	R, A(2000)
4/84	212	R, A(2001)
10/85	212	R, A(2003)
4/87	212	R, A(2004)
10/88	212	R, A(2006)
4/90	212	R, A(2007)

Comments: Dresden - 3 lost full core discharge capability during the 1978 refueling outage. An interim expansion to a capacity of 1420 fuel assemblies (by replacing non-fuel bearing component racks) regained this capability until the next discharge.

At one time, the utility had envisioned a complex inter-plant spent fuel transfer scheme as a storage alternate but has been unable to gain permission for the first phase -- Dresden to Quad Cities.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison Co. / La Salle - 1 / BWR
MW_t/MW_e (net) : 3293/1078
Commercial Operation Date : 9/79
Storage Pool Size (FA) - Current: 2440 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
2/81	296	R, A(1985)
2/82	200	R, A(1986)
2/83	176	R, A(1987)
2/84	216	R, A(1988)
2/85	200	R, A(1989)
2/86	192	R, A(1990)
2/87	200	R, A(1991)
2/88	200	R, A(1992)
2/89	196	R, A(1993)
2/90	200	R, A(1994)

Comments: LaSalle - 1 and - 2 share a common pool.

At one time, the utility had envisioned a complex inter-plant spent fuel transfer scheme as a storage alternate but has been unable to gain permission for the first phase -- Dresden to Quad Cities.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison Co. / La Salle - 2 / BWR
MW_t/MW_e (net) : 3293/1078
Commercial Operation Date : 9/80
Storage Pool Size (FA) - Current: 2440 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
2/82	296	R, A(1985)
2/83	200	R, A(1986)
2/84	176	R, A(1987)
2/85	216	R, A(1988)
2/86	200	R, A(1989)
2/87	192	R, A(1990)
2/88	200	R, A(1991)
2/89	200	R, A(1992)
2/90	196	R, A(1993)

Comments: LaSalle - 1 and - 2 share a common pool.

At one time, the utility had envisioned a complex inter-plant spent fuel transfer scheme as a storage alternate but has been unable to gain permission for the first phase -- Dresden to Quad Cities.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison / Quad Cities - 1 / BWR
MW_t/MW_e (net) : 2511/783
Commercial Operation Date : 2/73
Storage Pool Size (FA) - Current: 2280 Expanded: 2920 Date: 1978
Storage Pool Inventory (FA): 896

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/74	64	R, A(1984)
1/76	125	R, A(1984)
2/77	184	R, A(1985)
9/78	176	R, A(1987)
5/80	176	R, A(1988)
11/81	176	R, A(1990)
5/83	176	R, A(1991)
11/84	176	R, A(1993)
5/86	176	R, A(1994)
11/87	176	R, A(1996)
5/89	176	R, A(1997)
11/90	176	R, A(1999)

Comments: The pool expansion indicated involves only the replacement of existing non-fuel bearing component racks with spent fuel storage racks. The Quad Cities - 1 and - 2 pools are connected, and therefore are considered common for this analysis. Eighty-two fuel assemblies have been previously shuffled from the Unit 2 pool to the Unit 1 pool.

At one time, the utility had envisioned a complex inter-plant spent fuel transfer scheme as a storage alternate but has been unable to gain permission for the first phase -- Dresden to Quad Cities.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison / Quad Cities - 2 / BWR
MW_t/MW_e (net) : 2511/783
Commercial Operation Date : 2/73
Storage Pool Size (FA) - Current: 2280 Expanded: 2920 Date: 1978
Storage Pool Inventory (FA): 896

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
12/74	82	R, A(1983)
	93	R, A(1983)
10/75	4	R, A(1985)
9/76	164	R, A(1985)
1/78	180	R, A(1986)
8/79	224	R, A(1988)
2/81	176	R, A(1989)
8/82	176	R, A(1991)
2/84	176	R, A(1992)
8/85	176	R, A(1994)
2/87	176	R, A(1995)
8/88	176	R, A(1997)
2/90	176	R, A(1998)

Comments: The pool expansion indicated involves only the replacement of existing non-fuel bearing component racks with spent fuel storage racks. The Quad Cities - 1 and - 2 pools are connected, and therefore are considered common for this analysis. Eighty-two fuel assemblies have been previously shuffled from the Unit 2 pool to the Unit 1 pool.

At one time, the utility had envisioned a complex inter-plant spent fuel transfer scheme as a storage alternate but has been unable to gain permission for the first phase -- Dresden to Quad Cities.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison Co. / Zion - 1 / PWR
MW_t/MW_e (net) : 2760/1035
Commercial Operation Date : 10/73
Storage Pool Size (FA) - Current: 848 Expanded: 2112 Date: 1979
Storage Pool Inventory (FA): 302

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
2/76	60	R, A(1991)
9/77	64	R, A(1992)
11/78	64	R, A(1993)
11/79	64	R, A(1994)
11/80	64	R, A(1995)
11/81	64	R, A(1996)
11/82	64	R, A(1997)
11/83	64	R, A(1998)
11/84	64	R, A(1999)
11/85	64	R, A(2000)
11/86	64	R, A(2001)
11/87	64	R, A(2002)
11/88	64	R, A(2003)
11/89	64	R, A(2004)
11/90	64	R, A(2005)

Comments: Zion - 1 and - 2 share a common pool. This pool was already expanded from 340 fuel assemblies to 848 fuel assemblies in 1976.

At one time, the utility had envisioned a complex inter-plant spent fuel transfer scheme as a storage alternate but has been unable to gain permission for the first phase -- Dresden to Quad Cities BWR fuel shuffle.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Commonwealth Edison Co. / Zion - 2 / PWR
MW_t/MW_e (net) : 2760/1035
Commercial Operation Date : 9/74
Storage Pool Size (FA) - Current: 848 Expanded: 2112 Date: 1979
Storage Pool Inventory (FA): 302

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
1/77	60	R, A(1992)
2/78	118	R, A(1993-94)
3/79	64	R, A(1995)
3/80	64	R, A(1996)
3/81	64	R, A(1997)
3/82	64	R, A(1998)
3/83	64	R, A(1999)
3/84	64	R, A(2000)
3/85	64	R, A(2001)
3/86	64	R, A(2002)
3/87	64	R, A(2003)
3/88	64	R, A(2004)
3/89	64	R, A(2005)
3/90	64	R, A(2h06)

Comments: Zion - 1 and - 2 share a common pool. This pool was already expanded from 340 fuel assemblies to 848 fuel assemblies in 1976.

At one time, the utility had envisioned a complex inter-plant spent fuel transfer scheme as a storage alternate but has been unable to gain permission for the first phase -- Dresden to Quad Cities BWR fuel shuffle.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Connecticut Yankee APC / Connecticut Yankee / PWR
MW_t/MW_e (net) : 1825/570
Commercial Operation Date : 1/68
Storage Pool Size (FA) - Current: 672 Expanded: 1168 Date: 1983
Storage Pool Inventory (FA): 294

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/70	51	MSF
4/71	29	MSF
	23	R, A(1993)
6/72	53	R, A(1994)
7/73	55	R, A(1996)
5/75	49	R, A(1997)
10/77	53	R, A(1998)
12/78	51	R, A(1999)
2/80	49	R, A(2000)
4/81	53	R, A(2001)
6/82	53	R, A(2003)
8/83	53	R, A(2004)
10/84	53	R, A(2005)
12/85	53	R, A(2006)
2/87	52	R, A(2007)
4/88	52	R, A(2008)
6/89	53	R, A(2010)
8/90	52	R, A(2011)

Comments: The capacity of the Connecticut Yankee spent fuel storage pool was previously expanded from 252 fuel assemblies in 1977.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Consolidated Edison / Indian Point-1 / PWR
MW_t/MW_e (net) : 615/265
Commercial Operation Date : 10/62
Storage Pool Size (FA) - Current: 756 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 120

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/65	120	NFS
9/67	40	NFS
2/69	40	NFS
3/70	40	NFS
12/72	40	R, A (1989)
11/74	40	R, A (1990)
12/83	40	R, A (1991)
12/84	40	R, A (1992)
12/85	40	R, A (1993)
12/86	40	R, A (1994)
12/87	40	R, A (1995)
12/88	40	R, A (1996)
12/89	40	R, A (1997)
12/90	40	R, A (1998)

Comments: Indian Point-1 is currently shutdown. The spent fuel pool capacity could possibly be expanded to 1172 fuel assemblies. Four unirradiated thorium assemblies were shipped to NFS for reprocessing with the 120 irradiated thorium assemblies. The utility plans to ship Indian Point-2 spent fuel to Indian Point-1.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Consolidated Edison Co. / Indian Point - 2 / PWR
MW_t/MW_e (net) : 2758/873
Commercial Operation Date : 8/73
Storage Pool Size (FA) - Current: 482 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 132

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/76	72	R, IP-1(1982)
2/78	60	R, IP-1(1983)
9/79	64	R, IP-1(1985)
3/81	64	R, IP-1(1986)
8/82	65	R, A(1987)
1/84	64	R, A(1989)
6/85	64	R, A(1990)
11/86	65	R, A(1992)
4/88	64	R, A(1993)
9/89	64	R, A(1995)

Comments: The Indian Point - 2 spent fuel storage pool was previously expanded from 264 fuel assemblies in 1976. The utility plans to ship Indian Point-2 spent fuel to Indian Point-1.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Consumers Power Co. / Big Rock Pt. / BWR
MW_t/MW_e (net) : 240/61
Commercial Operation Date : 11/65
Storage Pool Size (FA) - Current: 193 Expanded: 365 Date: 1979
Storage Pool Inventory (FA): 62

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
prior to 1976	272	NFS
	18	R, A(1988)
1/76	22	R, A(1988)
7/77	22	R, A(1989)
10/78	21	R, A(1990)
11/79	22	R, A(1991)
11/80	22	R, A(1992)
11/81	22	R, A(1993)
11/82	22	R, A(1994)
11/83	22	R, A(1995)
11/84	22	R, A(1996)
11/85	22	R, A(1997)
11/86	22	R, A(1998)
11/87	22	R, A(1999)
11/88	22	R, A(2000)
11/89	22	R, A(2001)
11/90	22	R, A(2002)

Comments: The spent fuel pool capacity has previously been expanded twice from its original capacity of 120 fuel assemblies. The expanded capacity of 365 is the first use of high density racks at Big Rock Pt., and the utility considers this expansion as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Consumers Power Co. / Midland - 1 / PWR
MW_t/MW_e (net) : 2452/491
Commercial Operation Date : 3/82
Storage Pool Size (FA) - Current: 295 Expanded: 472 Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/84	56	R, A(1986)
5/85	61	R, A(1987)
7/86	60	R, A(1988)
9/87	56	R, A(1989)
11/88	61	R, A(1990)
1/90	60	R, A(1991)

Comments: Midland - 1 and - 2 share a common spent fuel pool. Storage racks to accomodate 295 fuel assemblies have been purchased. The pool capacity can be expanded to 472 fuel assemblies simply by adding more racks.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Consumers Power Co. / Midland - 2 / PWR
MW_t/MW_e (net) : 2452/792
Commercial Operation Date : 3/81
Storage Pool Size (FA) - Current: 295 Expanded: 472 Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/83	56	R, A(1986)
5/84	61	R, A(1987)
7/85	60	R, A(1988)
9/86	56	R, A(1989)
11/87	61	R, A(1990)
1/89	60	R, A(1992)
3/90	56	R, A(1993)

Comments: Midland - 1 and - 2 share a common spent fuel pool. Storage racks to accomodate 295 fuel assemblies have been purchased. The pool capacity can be expanded to 472 fuel assemblies simply by adding more racks.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Consumers Power Co. / Palisades / PWR
MW_t/MW_e (net) : 2530/821
Commercial Operation Date : 4/73
Storage Pool Size (FA) - Current: 276 Expanded: 794 Date: 1978
Storage Pool Inventory (FA): 273

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/74	1	R, A(1988)
12/75	204	R, A(1989)
1/78	68	R, A(1991)
6/79	68	R, A(1992)
1/81	68	R, A(1993)
7/82	68	R, A(1995)
1/87	68	R, A(1996)
7/88	68	R, A(1998)
1/90	68	R, A(1999)

Comments: Due to a premature full core discharge, Palisades lost full core reserve in 1976. Full core discharge capability will be regained upon completion of the indicated expansion. The utility considers this expansion as the maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Dairyland Power Cooperative / La Crosse / BWR
MW_t/MW_e (net) : 165/50
Commercial Operation Date : 9/69
Storage Pool Size (FA) - Current: 134 Expanded: 448 Date: 1978
Storage Pool Inventory (FA): 113

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/72	1	SR
	6	R, A(1988)
3/73	25	R, A(1989)
11/73	25	R, A(1990)
5/75	25	R, A(1991)
5/77	32	R, A(1992)
12/78	32	R, A(1993)
12/79	24	R, A(1994)
12/80	24	R, A(1995)
12/81	24	R, A(1996)
12/82	24	R, A(1997)
12/83	24	R, A(1998)
12/84	24	R, A(1999)
12/85	24	R, A(2000)
12/86	24	R, A(2001)
12/87	24	R, A(2002)
12/88	24	R, A(2003)
12/89	24	R, A(2004)
12/90	24	R, A(2005)

Comments: The storage pool capacity was previously expanded from 84 fuel assemblies in 1976. The utility needs to proceed with the next expansion phase on a priority basis. As an alternate, the utility is negotiating with GE to ship 12 fuel assemblies to MSF in late 1978.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Detroit Edison Co. / Enrico Fermi - 2 / BWR
MW_t/MW_e (net) : 3292/1093
Commercial Operation Date : 12/80
Storage Pool Size (FA) - Current: 990 Expanded: 2500 Date: unscheduled
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
5/82	296	R, A(1989)
5/83	200	R, A(1990)
5/84	176	R, A(1991)
5/85	216	R, A(1992)
5/86	200	R, A(1993)
5/87	192	R, A(1994)
5/88	200	R, A(1995)
5/89	200	R, A(1996)
5/90	196	R, A(1997)

Comments: The utility considers a 2500 fuel assembly capacity as maximum. The expansion is unscheduled but may occur in late 1979.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Detroit Edison Co. / Greenwood - 2 / PWR
MW_t/MW_e (net) : 3600/1200
Commercial Operation Date : 3/87
Storage Pool Size (FA) - Current: N/A Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/88	69	R, A(1989)
8/89	68	R, A(1990)
8/90	69	R, A(1991)

Comments: The Greenwood - 2 and - 3 pools are not yet designed. The analysis assumes a standard capacity of 288 fuel assemblies as minimum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Detroit Edison Co. / Greenwood - 3 / PWR
MW_t/MW_e (net) : 3600/1200
Commercial Operation Date : 3/89
Storage Pool Size (FA) - Current: N/A Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/90	69	R, A(1991)

Comments: The Greenwood - 2 and - 3 pools are not yet designed. The analysis assumes a standard capacity of 288 fuel assemblies as minimum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duke Power Co. / Catawba Nuclear Station - 1 / PWR
MW_t/MW_e (net) : 3411/1153
Commercial Operation Date : 7/81
Storage Pool Size (FA) - Current: 1418 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
12/82	64	R, A(1991)
12/83	64	R, A(1992)
12/84	64	R, A(1993)
12/85	64	R, A(1994)
12/86	64	R, A(1995)
12/87	64	R, A(1996)
12/88	64	R, A(1997)
12/89	64	R, A(1998)
12/90	64	R, A(1999)

Comments: The Catawba - 1 pool capacity was previously upgraded from 281 fuel assemblies. The utility plans to maintain one full core reserve per station. Consequently, it is only necessary to maintain 1/2 full core reserve in this pool.

Inter-station fuel transfer is desired. The order of pool usage indicated by the utility is: McGuire - 1 and - 2. Catawba - 1 and - 2, and Cherokee - 1, - 2 and - 3. The assembly locations indicated in this analysis are feasible but not necessarily actual utility plans.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duke Power Co. / Catawba Nuclear Station - 2 / PWR
MW_t/MW_e (net) : 3411/1153
Commercial Operation Date : 1/83
Storage Pool Size (FA) - Current: 1418 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/84	64	R, CH-3(1990)
6/85	64	R, A(1991)
6/86	64	R, A(1992)
6/87	64	R, A(1993)
6/88	64	R, A(1994)
6/89	64	R, A(1995)
6/90	64	R, A(1996)

Comments: The Catawba - 2 pool capacity was previously upgraded from 281 fuel assemblies. The utility plans to maintain one full core reserve per station. Consequently, it is only necessary to maintain 1/2 full core reserve in this pool.

Inter-station fuel transfer is desired. The order of pool usage indicated by the utility is: McGuire - 1 and - 2, Catawba - 1 and - 2, and Cherokee - 1, - 2 and - 3. The assembly locations indicated in this analysis are feasible but not necessarily actual utility plans.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duke Power Co. / Cherokee - 1 / PWR
MW_t/MW_e (net) : 3800/1280
Commercial Operation Date : 1/85
Storage Pool Size (FA) - Current: 693 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/86	80	R, A(1991)
6/87	81	R, A(1992)
6/88	80	R, A(1993)
6/89	80	R, A(1994)
6/90	81	R, A(1995)

Comments: The utility plans to maintain one full core reserve per station. Consequently, it is only necessary to maintain 1/3 full core reserve in this pool.

Inter-station fuel transfer is desired. The order of pool usage indicated by the utility is: McGuire - 1 and - 2, Catawba - 1 and - 2, and Cherokee - 1, - 2 and - 3. The assembly locations indicated in this analysis are feasible but not necessarily actual utility plans.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duke Power Co. / Cherokee - 2 / PWR
MW_t/MW_e (net) : 3800/1280
Commercial Operation Date : 1/87
Storage Pool Size (FA) - Current: 693 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/88	80	R, A(1992)
6/89	81	R, A(1992)
6/90	80	R, A(1992)

Comments: The utility plans to maintain one full core reserve per station. Consequently, it is only necessary to maintain 1/3 full core reserve in this pool.

Inter-station fuel transfer is desired. The order of pool usage indicated by the utility is: McGuire - 1 and - 2, Catawba - 1 and - 2, and Cherokee - 1, - 2 and - 3. The assembly locations indicated in this analysis are feasible but not necessarily actual utility plans.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duke Power Co. / Cherokee - 3 / PWR
MW_t/MW_e (net) : 3800/1280
Commercial Operation Date : 1/89
Storage Pool Size (FA) - Current: 693 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/90	80	R, A(1992)

Comments: The utility plans to maintain one full core reserve per station. Consequently, it is only necessary to maintain 1/3 full core reserve in this pool.

Inter-station fuel transfer is desired. The order of pool usage indicated by the utility is: McGuire - 1 and - 2, Catawba - 1 and - 2, and Cherokee - 1, - 2 and - 3. The assembly locations indicated in this analysis are feasible but not necessarily actual utility plans.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duke Power Co. / W.B. McGuire Nuclear Station - 1 / PWR
MW_t/MW_e (net) : 3411/1180
Commercial Operation Date : 7/79
Storage Pool Size (FA) - Current: 500 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/81	64	R, C-1(1983)
5/82	64	R, C-1(1984)
6/83	64	R, C-1(1985)
7/84	64	R, C-1(1986)
8/85	64	R, C-1(1987)
9/86	64	R, C-1(1988)
10/87	64	R, CH-2(1989)
11/88	64	R, CH-2(1990)
12/89	64	R, CH-3(1991)

Comments: The McGuire - 1 pool capacity was previously upgraded from 281 fuel assemblies. The utility plans to maintain one full core reserve per station. Consequently, it is only necessary to maintain 1/2 full core reserve in this pool.

Inter-station fuel transfer is desired. The order of pool usage indicated by the utility is: McGuire - 1 and - 2, Catawba - 1 and - 2, and Cherokee - 1, - 2 and - 3. The assembly locations indicated in this analysis are feasible but not necessarily actual utility plans.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duke Power Co. / W.B. McGuire Nuclear Station - 2 / PWR
MW_t/MW_e (net) : 3411/1180
Commercial Operation Date : 3/81
Storage Pool Size (FA) - Current: 500 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/82	64	R, C-1(1983)
11/83	64	R, C-1(1984)
12/84	64	R, C-2(1985)
1/86	64	R, C-2(1986)
2/87	64	R, C-2(1987)
3/88	64	R, CH-2(1988)
4/89	64	R, CH-2(1989)
5/90	64	R, CH-3(1991)

Comments: The McGuire - 2 pool capacity was previously upgraded from 281 fuel assemblies. The utility plans to maintain one full core reserve per station. Consequently, it is only necessary to maintain 1/2 full core reserve in this pool.

Inter-station fuel transfer is desired. The order of pool usage indicated by the utility is: McGuire - 1 and -2, Catawba - 1 and - 2, and Cherokee - 1, - 2 and - 3. The assembly locations indicated in this analysis are feasible but not necessarily actual utility plans.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duke Power Co. / Oconee - 1 / PWR
MW_t/MW_e (net) : 2568/871
Commercial Operation Date : 7/73
Storage Pool Size (FA) - Current: 306 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 107

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/74	4	R, CR(1978)
	53	R, MG-1(1979)
2/76	60	R, MG-1(1979-80)
8/77	60	R, MG-2(1980-82)
10/78	45	R, MG-2(1982)
	16	R, C-1(1983)
11/79	56	R, C-1(1983)
12/80	72	R, C-2(1984-85)
6/82	72	R, C-2(1986)
12/83	72	R, C-2(1988)
6/85	72	R, CH-3(1989)
12/86	72	R, CH-3(1991)
6/88	72	R, A(1992)
12/89	72	R, A(1994)

Comments: The Oconee - 1 and - 2 units share a common pool. The actual pool capacity is 336 fuel assemblies; however, only 306 spaces are available for spent fuel storage. The utility plans to maintain one full core reserve per station. Consequently, it is only necessary to maintain 1/3 full core reserve in this pool. (This is the smaller of the two pools; therefore, only 1/3 full core reserve will be maintained in this pool.)

Inter-station fuel transfer is desired. The order of pool usage indicated by the utility is: McGuire - 1 and - 2, Catawba - 1 and - 2, and Cherokee - 1, - 2 and - 3. The assembly locations indicated in this analysis are feasible but not necessarily actual utility plans.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duke Power Co. / Oconee - 2 / PWR
MW_t/MW_e (net) : 2568/871
Commercial Operation Date : 9/74
Storage Pool Size (FA) - Current: 306 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 107

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/76	42	R, MG-1 (1979)
5/77	18	R, MG-1 (1980)
	55	R, MG-2 (1980)
11/78	56	R, MG-2 (1982)
12/79	68	R, C-2 (1983)
4/81	72	R, C-2 (1985)
10/82	72	R, C-2 (1986)
4/84	72	R, C-2 (1988)
10/85	72	R, CH-1 (1989)
4/87	72	R, CH-3 (1991)
10/88	72	R, A (1992)
4/90	72	R, A (1994)

Comments: The Oconee - 1 and - 2 units share a common pool- The actual pool capacity is 336 fuel assemblies; however, only 306 spaces are available for spent fuel storage. The utility plans to maintain one full core reserve per station. Consequently, it is only necessary to maintain 1/3 full core reserve in this pool. (This is the smaller of the two pools; therefore, only 1/3 full core reserve will be maintained in this pool.)

Inter-station fuel transfer is desired. The order of pool usage indicated by the utility is: McGuire - 1 and - 2, Catawba - 1 and - 2, and Cherokee - 1, - 2 and - 3. The assembly locations indicated in this analysis are feasible but not necessarily actual utility plans.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duke Power Co. / Oconee - 3 / PWR
MW_t/MW_e (net) : 2568/871
Commercial Operation Date : 12/74
Storage Pool Size (FA) - Current: 465 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 326

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/76	10	R, MG-1 (1979)
10/77	61	R, MC-1 (1979-80)
6/78	26	R, MG-1 (1980)
	39	R, MG-2 (1981)
6/79	56	R, MG-2 (1981-82)
7/80	17	R, MG-2 (1982)
	48	R, C-1 (1983)
8/81	56	R, C-1 (1983)
9/82	56	R, C-2 (1984)
10/83	56	R, C-2 (1985)
11/84	56	R, C-2 (1986)
12/85	56	R, C-2 (1987)
1/87	56	R, CH-1 (1988)
2/88	56	R, CH-1 (1989)
3/89	5	R, CH-2 (1990)
	51	R, CH-3 (1990)
4/90	56	R, CH-3 (1991)

Comments: The Oconee - 3 spent fuel storage pool was previously expanded from 216 fuel assemblies in 1976. The actual capacity is 474 fuel assemblies but only 465 slots are usable for spent fuel storage. The utility plans to maintain one full core reserve per station. Consequently, it is only necessary to maintain 2/3 full core reserve in this pool.

Inter-station fuel transfer is desired. The order of pool usage indicated by the utility is: McGuire - 1 and - 2, Catawba - 1 and - 2, and Cherokee - 1, - 2 and - 3. The assembly locations indicated in this analysis are feasible but not necessarily actual utility plans.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duke Power Co. / Perkins - 1 / PWR
MW_t/MW_e (net) : 3800/1280
Commercial Operation Date : 1/88
Storage Pool Size (FA) - Current: 693 Expanded: N/A Date: N/A
Storage Pool Inventory (FA):

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/89	80	R, A(1996)
6/90	81	R, A(1997)

Comments: The utility plans to maintain one full core reserve per station. Consequently, it is only necessary to maintain 1/3 full core reserve in this pool.

Inter-station fuel transfer is desired. The order of pool usage indicated by the utility is: McGuire - 1 and - 2, Catawba - 1 and - 2, and Cherokee - 1, - 2 and - 3. The assembly locations indicated in this analysis are feasible but not necessarily actual utility plans.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duquesne Light Co. / Beaver Valley - 1 / PWR
MW_t/MW_e (net) : 2660/852
Commercial Operation Date : 10/76
Storage Pool Size (FA) - Current: 272 Expanded: 833 Date: 1978
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/78	52	R, A(1990)
11/79	53	R, A(1991)
11/80	52	R, A(1992)
11/81	52	R, A(1993)
11/82	53	R, A(1994)
11/83	52	R, A(1995)
11/84	52	R, A(1996)
11/85	53	R, A(1997)
11/86	52	R, A(1998)
11/87	52	R, A(1999)
11/88	53	R, A(2000)
11/89	52	R, A(2001)
11/90	52	R, A(2002)

Comments: The utility considers the expanded capacity of 833 fuel assemblies to be maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Duquesne Light Co. / Beaver Valley - 2 / PWR
MW_t/MW_e (net) : 2660/852
Commercial Operation Date : 5/82
Storage Pool Size (FA) - Current: 272 Expanded: N/A Date: N/A
Storage Pool Inventory (FA):

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/83	52	R, A(1985)
10/84	53	R, A(1986)
10/85	52	R, A(1987)
10/86	52	R, A(1988)
10/87	53	R, A(1989)
10/88	52	R, A(1990)
10/89	52	R, A(1991)
10/90	53	R, A(1992)

Comments: A maximum pool capacity of 833 fuel assemblies is possible.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Florida Power Corp. / Crystal River - 3 / PWR
MW_t/MW_e (net) : 2452/825
Commercial Operation Date : 3/77
Storage Pool Size (FA) - Current: 240 Expanded: 1153 Date: 1986
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location
4/79	4	R, 0(1979)
	52	R, A(1994)
4/80	61	R, A(1995)
4/81	60	R, A(1996)
4/82	56	R, A(1997)
4/83	61	R, A(1998)
4/84	60	R, A(1999)
4/85	56	R, A(2000)
4/86	61	R, A(2001)
4/87	60	R, A(2002)
4/88	56	R, A(2003)
4/89	61	R, A(2004)
4/90	60	R, A(2005)

Comments: The storage pool is being expanded to an interim capacity of 664 fuel assemblies in 1978. Four assemblies from the cycle 1 discharge will be shipped to Duke Power Co. as a swap for the 4 assemblies received from Oconee this year.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Florida Power & Light Co. / St. Lucie - 1 / PWR
MW_t/MW_e (net) : 2560/801
Commercial Operation Date : 6/76
Storage Pool Size (FA) - Current: 310 Expanded: 728 Date: 1978
Storage Pool Inventory (FA): 60

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/78	60	R, A(1984)
5/79	72	R, A(1985)
5/80	72	R, A(1986)
5/81	72	R, A(1987)
5/82	72	R, A(1988)
5/83	72	R, A(1989)
5/84	72	R, A(1990)
5/85	72	R, A(1991)
5/86	72	R, A(1992)
5/87	72	R, A(1993)
5/88	72	R, A(1994)
5/89	72	R, A(1995)
5/90	72	R, A(1996)

Comments: The utility considers this expansion to be maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Florida Power & Light Co. / St. Lucie - 2 / PWR
MW_t/MW_e (net) : 2560/801
Commercial Operation Date : 5/83
Storage Pool Size (FA) - Current: 728 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/84	72	R, A(1991)
10/85	72	R, A(1992)
10/86	73	R, A(1993)
10/87	72	R, A(1994)
10/88	72	R, A(1995)
10/89	72	R, A(1996)
10/90	72	

Comments: The pool capacity was upgraded from 310 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Florida Power & Light Co. / Turkey Point - 3 / PWR
MW_t/MW_e (net) : 2200/745
Commercial Operation Date : 12/72
Storage Pool Size (FA) - Current: 217 Expanded: 621 Date: 1978
Storage Pool Inventory (FA): 148

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/74	32	TP-4
	15	R, A(1985)
10/75	36	R, A(1986)
11/76	57	R, A(1987)
11/77	40	R, A(1988)
11/78	40	R, A(1989)
6/80	40	R, A(1990)
6/81	40	R, A(1991)
6/82	40	R, A(1992)
6/83	40	R, A(1993)
6/84	40	R, A(1994)
6/85	40	R, A(1995)
6/86	40	R, A(1996)
6/87	40	R, A(1997)
6/88	40	R, A(1998)
6/89	40	R, A(1999)
6/90	40	R, A(2000)

Comments: The reactor initially lost full core reserve in 1975 and shipped 32 fuel assemblies to Turkey Point - 4 in 1977 to avoid losing normal discharge capability. The current expansion is considered maximum by the utility.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Florida Power & Light Co. / Turkey Point - 4 / PWR
MW_t/MW_e (net) : 2200/745
Commercial Operation Date : 9/73
Storage Pool Size (FA) - Current: 621 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 164

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/75	47	R, A(1985)
4/76	41	R, A(1986)
4/77	44	R, A(1987)
7/78	40	R, A(1988)
6/79	40	R, A(1989)
2/81	40	R, A(1990)
2/82	40	R, A(1991)
2/83	40	R, A(1992)
2/84	40	R, A(1993)
2/85	40	R, A(1994)
2/86	40	R, A(1995)
2/87	40	R, A(1996)
2/88	40	R, A(1997)
2/89	40	R, A(1998)
2/90	40	R, A(1999)

Comments: Full core reserve was lost in 1976 but recovered in 1977 with the expansion from 217 fuel assemblies. The utility considers the expansion maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Georgia Power Co. / Edwin I. Hatch - 1 / BWR
MW_t/MW_e (net) : 2436/786
Commercial Operation Date : 1/76
Storage Pool Size (FA) - Current: 1960 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 260

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/77	92	R, A(1983)
3/78	168	R, A(1984)
4/79	144	R, A(1985)
4/80	128	R, A(1986)
4/81	128	R, A(1987)
4/82	128	R, A(1988)
4/83	128	R, A(1989)
4/84	128	R, A(1990)
4/85	128	R, A(1991)
4/86	128	R, A(1992)
4/87	128	R, A(1993)
4/88	128	R, A(1994)
4/89	128	R, A(1995)
4/90	128	R, A(1996)

Comments: The Hatch - 1 and - 2 pools are connected, and therefore are considered common for this analysis. A capacity of 2460 fuel assemblies is possible with standard racks. Installation of high density racks has not been analyzed. The capacity of the Unit 1 pool is 840 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Georgia Power Co. / Edwin I. Hatch - 2 / BWR
MW_t/MW_e (net) : 2436/795
Commercial Operation Date : 11/78
Storage Pool Size (FA) - Current: 1960 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 260

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
5/80	160	R, A(1982)
5/81	132	R, A(1983)
5/82	124	R, A(1984)
5/83	124	R, A(1985)
5/84	124	R, A(1986)
5/85	124	R, A(1987)
5/86	124	R, A(1988)
5/87	124	R, A(1989)
5/88	124	R, A(1990)
5/89	124	R, A(1991)
5/90	124	R, A(1992)

Comments: The Hatch - 1 and - 2 pools are connected, and therefore are combined common for this analysis. A capacity of 2460 fuel assemblies is possible with standard racks. Installation of high density racks has not been analyzed. The capacity of the Unit 2 pool is 1120 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Georgia Power Co. / A.W. Vogtle - 1 / PWR
MW_t/MW_e (net) : 3411/1121
Commercial Operation Date : 11/84
Storage Pool Size (FA) - Current: 1872 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/86	72	R, A(1997)
4/87	72	R, A(1998)
4/88	72	R, A(1999)
4/89	72	R, A(2000)
4/90	72	R, A(2001)

Comments: Vogtle - 1 and - 2 share a common spent fuel storage pool.
This pool was upgraded from 640 fuel assemblies in the de-
sign phase.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Georgia Power Co. / A.W. Vogtle - 2 / PWR
MW_t/MW_e (net) : 3411/1121
Commercial Operation Date : 11/85
Storage Pool Size (FA) - Current: 1872 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/87	72	R, A(1997)
4/88	72	R, A(1998)
4/89	72	R, A(1999)
4/90	72	R, A(2000)

Comments: Vogtle - 1 and - 2 share a common spent fuel storage pool.
This pool was upgraded from 640 fuel assemblies in the de-
sign phase.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Gulf States Utilities Co. / River Bend - 1 / BWR
MW_t/MW_e (net) : 2894/950
Commercial Operation Date : 9/84
Storage Pool Size (FA) - Current: 1180 Expanded: 2750 Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
2/86	196	R, A(2006)
8/87	164	R, A(2008)
2/89	144	R, A(2009)
8/90	148	R, A(2011)

Comments: The utility intends to install high density racks after reactor start-up.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Houston Lighting & Power Co. / Allen's Creek - 1 / BWR
MW_t/MW_e (net) : 3579/1150
Commercial Operation Date : 3/85
Storage Pool Size (FA) - Current: 3000 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
2/86	292	R, A(1995)
2/87	232	R, A(1996)
2/88	180	R, A(1997)
2/89	196	R, A(1998)
2/90	212	R, A(1999)

Comments: The pool capacity corresponds to storage space for 10 years' discharges plus full core reserve.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Illinois Power Co. / Clinton - 1 / BWR
MW_t/MW_e (net) : 2894/950
Commercial Operation Date : 12/82
Storage Pool Size (FA) - Current: 1209 Expanded: 2940 Date: 1982
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/84	200	R, A(1998)
4/85	160	R, A(1999)
4/86	144	R, A(2000)
4/87	148	R, A(2001)
4/88	148	R, A(2002)
4/89	144	R, A(2003)
4/90	144	R, A(2004)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Illinois Power Co. / Clinton - 2 / BWR
MW_t/MW_e (net) : 2894/950
Commercial Operation Date : 6/88
Storage Pool Size (FA) - Current: 1209 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/89	200	R, A(1992)
9/90	160	R, A(1993)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Indiana & Michigan Electric Co. / Donald C. Cook-1 / PWR
MW_t/MW_e (net) : 2633/1054
Commercial Operation Date : 8/75
Storage Pool Size (FA) - Current: 500 Expanded: 2000 Date: 1979
Storage Pool Inventory (FA): 129

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
12/76	65	R, A(1991)
4/78	64	R, A(1992)
4/79	64	R, A(1993)
4/80	65	R, A(1994)
4/81	64	R, A(1995)
4/82	64	R, A(1996)
4/83	65	R, A(1997)
4/84	64	R, A(1998)
4/85	64	R, A(1999)
4/86	65	R, A(2000)
4/87	64	R, A(2001)
4/88	64	R, A(2002)
4/89	65	R, A(2003)
4/90	64	R, A(2004)

Comments: D. C. Cook - 1 and - 2 share a common spent fuel storage pool.
The expansion schedule will probably slip into the early 1980's.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Indiana & Michigan Electric Co. / Donald C. Cook-2 / PWR
MW_t/MW_e (net) : 3391/1093
Commercial Operation Date : 6/78
Storage Pool Size (FA) - Current: 500 Expanded: 2000 Date: 1979
Storage Pool Inventory (FA): 129

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
7/79	64	R, A(1992)
7/80	64	R, A(1993)
7/81	64	R, A(1994)
7/82	64	R, A(1995)
7/83	64	R, A(1996)
7/84	64	R, A(1997)
7/85	64	R, A(1998)
7/86	64	R, A(1999)
7/87	64	R, A(2000)
7/88	64	R, A(2001)
7/89	64	R, A(2002)
7/90	64	R, A(2003)

Comments: D. C. Cook - 1 and - 2 share a common spent fuel storage pool.
The expansion schedule will probably slip into the early 1980's.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Iowa Electric Light & Power Co. / Duane Arnold-1 / BWR
MW_t/MW_e (net) : 1658/538
Commercial Operation Date : 2/75
Storage Pool Size (FA) - Current: 510 Expanded: 2050 Date: 1978
Storage Pool Inventory (FA): 276

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
5/75	4	R, A(1993)
2/76	84	R, A(1993)
3/77	100	R, A(1994)
3/78	88	R, A(1995)
3/79	88	R, A(1996)
3/80	92	R, A(1997)
3/81	92	R, A(1998)
3/82	84	R, A(1999)
3/83	92	R, A(2000)
3/84	92	R, A(2001)
3/85	88	R, A(2002)
3/86	92	R, A(2003)
3/87	88	R, A(2004)
3/88	92	R, A(2005)
3/89	88	R, A(2006)
3/90	92	R, A(2007)

Comments: The current expansion utilizes high density, poison racks and is considered the maximum expansion by the utility.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Jersey Central Power & Light Co. / Forked River- 1 / PWR
MW_t/MW_e (net) : 3390/1070
Commercial Operation Date : 5/83
Storage Pool Size (FA) - Current: 860 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/84	72	R, A(1993)
8/85	64	R, A(1994)
8/86	64	R, A(1995)
8/87	65	R, A(1996)
8/88	65	R, A(1997)
8/89	64	R, A(1998)
8/90	64	R, A(1999)

Comments: Currently, the North storage pool has no storage racks planned for installation. If the North pool were racked, a pool capacity of 1720 fuel assemblies is possible.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Jersey Central Power & Light Co. / Oyster Creek / BWR
MW_t/MW_e (net) : 1930/650
Commercial Operation Date : 12/69
Storage Pool Size (FA) - Current: 1176 Expanded: 1800 Date: 1984
Storage Pool Inventory (FA): 452

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/71	24	NFS
4/72	136	NFS
4/73	64	NFS
	84	R, A(1984)
4/74	72	R, A(1985)
3/75	112	R, A(1985)
12/75	56	R, A(1986)
4/77	128	R, A(1987)
9/78	188	R, A(1988)
9/79	112	R, A(1989)
9/80	112	R, A(1990)
9/81	112	R, A(1991)
9/82	112	R, A(1992)
9/83	112	R, A(1993)
9/84	112	R, A(1994)
9/85	112	R, A(1995)
9/86	112	R, A(1996)
9/87	112	R, A(1997)
9/88	112	R, A(1998)
9/89	112	R, A(1999)
9/90	112	R, A(2000)
	112	R, A(2001)

Comments: The expansion program consists of five phases with the first phase completed in 1977. The original pool capacity was 840 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Kansas Utilities / Wolf Creek - 1 / PWR
MW_t/MW_e (net) : 3411/1158
Commercial Operation Date : 4/83
Storage Pool Size (FA) - Current: 400 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/84	64	R, A(1987)
9/85	64	R, A(1988)
9/86	64	R, A(1989)
9/87	64	R, A(1990)
9/88	64	R, A(1991)
9/89	64	R, A(1992)
9/90	64	R, A(1993)

Comments: Wolf Creek - 1 is a SNUPPS plant. The storage pool can be expanded to 960 fuel assemblies in the plants if the utility opts to do so.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Long Island Lighting Co. / Jamesport - 1 / PWR
MW_t/MW_e (net) : 3411/1160
Commercial Operation Date : 11/88
Storage Pool Size (FA) - Current: 1300 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/90	60	R, A(2007)

Comments: Jamesport - 1 is a replica of Millstone - 3. The storage pool has not yet been designed, but the utility considers a capacity of 1552 fuel assemblies as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Long Island Lighting Co. / Shoreham / BWR
MW_t/MW_e (net) : 2436/819
Commercial Operation Date : 11/80
Storage Pool Size (FA) - Current: 2176 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
5/82	184	R, A(1992)
5/83	132	R, A(1993)
5/84	128	R, A(1994)
5/85	124	R, A(1995)
5/86	140	R, A(1996)
5/87	136	R, A(1997)
5/88	136	R, A(1998)
5/89	136	R, A(1999)
5/90	136	R, A(2000)

Comments: The utility considers a pool capacity of 2646 fuel assemblies as maximum (using high density, poison racks).

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Louisiana Power & Light Co. / Waterford - 3 / PWR
MW_t/MW_e (net) : 3390/1113
Commercial Operation Date : 9/82
Storage Pool Size (FA) - Current: 364 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/83	72	R, A(1985)
11/84	73	R, A(1986)
11/85	72	R, A(1987)
11/86	72	R, A(1988)
11/87	73	R, A(1989)
11/88	72	R, A(1990)
11/89	72	R, A(1991)
11/90	73	R, A(1992)

Comments: The utility intends to expand the storage pool, but the plans for expansion are not yet formulated.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Maine Yankee Atomic Power Co. / Maine Yankee / PWR
MW_t/MW_e (net) : 2630/775
Commercial Operation Date : 12/72
Storage Pool Size (FA) - Current: 943 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 434

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/74	72	R, A(1984)
5/75	217	R, A(1985-87)
4/77	73	R, A(1988)
7/78	72	R, A(1990)
9/79	72	R, A(1991)
1/81	73	R, A(1992)
3/82	72	R, A(1993)
5/83	72	R, A(1994)
8/84	73	R, A(1996)
10/85	72	R, A(1997)
12/86	72	R, A(1998)
3/88	73	R, A(1999)
5/89	72	R, A(2000)
7/90	72	R, A(2002)
10/91	73	R, A(2003)

Comments: The storage pool is in the process of being expanded in a
three phase program

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Metropolitan Edison Co. / Three Mile Island-1 / PWR
MW_t/MW_e (net) : 2535/819
Commercial Operation Date : 9/74
Storage Pool Size (FA) - Current: 752 Expanded: 1226 Date: 1980
Storage Pool Inventory (FA): 156

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
2/76	30	R, A(1995)
3/77	53	R, A(1995)
3/78	73	R, A(1996)
4/79	52	R, A(1997)
4/80	52	R, A(1998)
4/81	53	R, A(1999)
4/82	52	R, A(2000)
4/83	52	R, A(2001)
4/84	52	R, A(2002)
4/85	53	R, A(2003)
4/86	52	R, A(2004)
4/87	52	R, A(2005)
4/88	52	R, A(2006)
4/89	53	R, A(2007)
4/90	52	R, A(2008)

Comments: The current storage pool was expanded from 430 fuel assemblies (complete 1978). The utility intends to expand the capacity to 1226 fuel assemblies prior to 1981.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Metroploitan Edison Co. / Three Mile Island - 2 / PWR
MW_t/MW_e (net) : 2772/906
Commercial Operation Date : 5/78
Storage Pool Size (FA) - Current: 448 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/79	56	R, A(1983)
11/80	61	R, A(1984)
11/81	52	R, A(1985)
11/82	52	R, A(1986)
11/83	53	R, A(1987)
11/84	52	R, A(1988)
11/85	52	R, A(1989)
11/86	52	R, A(1990)
11/87	52	R, A(1991)
11/88	52	R, A(1992)
11/89	52	R, A(1993)
11/90	52	R, A(1994)

Comments: The utility considers a pool capacity of 1277 fuel assemblies as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Mississippi Power & Light Co. / Grand Gulf - 1 / BWR
MW_t/MW_e (net) : 3833/1250
Commercial Operation Date : 4/81
Storage Pool Size (FA) - Current: 1440 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/82	260	R, A(1984)
9/83	228	R, A(1985)
9/84	196	R, A(1986)
9/85	224	R, A(1987)
9/86	212	R, A(1988)
9/87	216	R, A(1989)
9/88	216	R, A(1990)
9/89	216	R, A(1991)
9/90	216	R, A(1992)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Mississippi Power & Light Co. / Grand Gulf - 2 / BWR
MW_t/MW_e (net) : 3833/1250
Commercial Operation Date : 1/84
Storage Pool Size (FA) - Current: 1121 Expanded: 2980 Date: 1979
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/85	260	R, A(1994)
6/86	228	R, A(1995)
6/87	196	R, A(1996)
6/88	224	R, A(1997)
6/89	212	R, A(1998)
6/90	216	R, A(1999)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Nebraska Public Power District / Cooper / BWR
MW_t/MW_e (net) : 2381/778
Commercial Operation Date : 7/74
Storage Pool Size (FA) - Current: 740 Expanded: 2366 Date: 1978
Storage Pool Inventory (FA): 284

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/76	120	R, A(1992)
10/77	64	R, A(1993)
4/78	100	R, A(1994)
8/79	116	R, A(1995)
8/80	108	R, A(1996)
8/81	116	R, A(1997)
8/82	120	R, A(1998)
8/83	120	R, A(1999)
8/84	116	R, A(2000)
8/85	116	R, A(2001)
8/86	116	R, A(2002)
8/87	116	R, A(2003)
8/88	112	R, A(2004)
8/89	112	R, A(2005)
8/90	112	R, A(2006)

Comments: The utility considers the expanded capacity to be maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : New England Electric System / NEES - 1 / PWR
MW_t/MW_e (net) : 3411/1150
Commercial Operation Date : 10/86
Storage Pool Size (FA) - Current: 280 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/88	64	R, A(1988)
3/89	64	R, A(1989)
3/90	65	R, A(1990)

Comments: The utility considers the maximum expansion to be approximately 1020 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : New England Electric System / NEES - 2 / PWR
MW_t/MW_e (net) : 3411/1150
Commercial Operation Date : 10/88
Storage Pool Size (FA) - Current: 280 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/90	64	R, A(1990)

Comments: The utility considers the maximum expansion to be approximately 1020 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Niagara Mohawk Power Co. / Nine Mile Point- 1 / BWR
MW_t/MW_e (net) : 1850/610
Commercial Operation Date : 12/69
Storage Pool Size (FA) - Current: 1140 Expanded: 1984 Date: as needed
Storage Pool Inventory (FA): 660

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/71	17	R, A(1984)
4/72	31	R, A(1984)
4/73	104	R, A(1986)
3/74	148	R, A(1986)
9/75	200	R, A(1987)
3/77	160	R, A(1989)
3/79	174	R, A(1990)
10/80	160	R, A(1992)
4/82	160	R, A(1993)
10/83	160	R, A(1995)
4/85	160	R, A(1996)
10/86	160	R, A(1998)
4/88	160	R, A(1999)
10/89	160	R, A(2001)

Comments: The spent fuel storage pool capacity has already been expanded from 800 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Niagara Mohawk Power Co. / Nine Mile Point - 2 / BWR
MW_t/MW_e (net) : 3323/1100
Commercial Operation Date : 11/83
Storage Pool Size (FA) - Current: 3000 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/85	216	R, A(1996)
4/86	202	R, A(1997)
4/87	162	R, A(1998)
4/88	172	R, A(1999)
4/89	174	R, A(2000)
4/90	174	R, A(2001)

Comments: The utility considers the storage capacity of its maximum value.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Northeast Nuclear Energy Co. / Millstone - 1 / BWR
MW_t/MW_e (net) : 2011/650
Commercial Operation Date : 12/70
Storage Pool Size (FA) - Current: 1100 Expanded: 2184 Date: 1978
Storage Pool Inventory (FA): 628

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/72	40	R, M-3(1985)
8/74	196	R, M-3(1986)
9/75	144	R, M-3(1987)
10/76	124	R, M-3(1988)
3/78	124	R, M-3(1989)
3/79	148	R, M-3(1990)
3/80	116	R, M-3(1991)
3/81	116	R, A(1992)
3/82	120	R, A(1993)
3/83	120	R, A(1994)
3/84	120	R, A(1995)
3/85	116	R, A(1996)
3/86	116	R, A(1997)
3/87	120	R, A(1998)
3/88	120	R, A(1999)
3/89	116	R, A(2000)
3/90	116	R, A(2001)

Comments: The current pool capacity was expanded from 880 fuel assemblies in 1977. The utility intends to shuffle fuel to Millstone - 3 beginning in the mid-1980's. The Millstone - 3 pool was assumed to be operational one year prior to commercial operation.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Northeast Nuclear Energy Co. / Millstone - 2 / PWR
MW_t/MW_e (net) : 2560/828
Commercial Operation Date : 12/75
Storage Pool Size (FA) - Current: 667 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 69

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/77	69	R, A(1984)
2/79	72	R, M-3(1986)
5/80	73	R, M-3(1987)
8/81	73	R, M-3(1988)
11/82	73	R, M-3(1989)
2/84	72	R, M-3(1991)
5/85	72	R, M-3(1992)
8/86	72	R, M-3(1993)
11/87	72	R, M-3(1994)
2/89	72	R, A(1996)
5/90	72	R, A(1997)

Comments: The current pool capacity was expanded from 667 fuel assemblies in 1977. The utility intends to shuffle fuel to Millstone - 3 beginning in the mid-1980's. The Millstone - 3 pool was assumed to be operational one year prior to commercial operation.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Northeast Nuclear Energy Co. / Millstone - 3 / PWR
MW_t/MW_e (net) : 3411/1156
Commercial Operation Date : 5/86
Storage Pool Size (FA) - Current: 1300PWR Expanded: N/A Date: N/A
830BWR
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/87	64	A, R(1995)
11/88	64	A, R(1996)
11/89	65	A, R(1997)
11/90	64	A, R(1998)

Comments: The Millstone - 3 pool is projected to begin accepting fuel from Millstone - 1 and - 2 one year before commercial operation.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Northeast Nuclear Energy Co. / Montague - 1 / BWR
MW_t/MW_e (net) : 3579/1150
Commercial Operation Date : 10/89
Storage Pool Size (FA) - Current: 1354 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/90	288	R, A(1991)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Northern Indiana Public Service Co. / Bailly / BWR
MW_t/MW_e (net) : 1931/660
Commercial Operation Date : 6/84
Storage Pool Size (FA) - Current: 592 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/85	104	R, A(1986)
11/86	124	R, A(1987)
11/87	108	R, A(1988)
11/88	108	R, A(1989)
11/89	108	R, A(1990)
11/90	108	R, A(1991)

Comments: The utility is currently studying expansion to approximately 1000 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Northern States Power Co. / Monticello / BWR
MW_t/MW_e (net) : 1670/545
Commercial Operation Date : 7/71
Storage Pool Size (FA) - Current: 740 Expanded: 2237 Date: 1980
Storage Pool Inventory (FA): 616

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/73	13	R, A(1988)
3/74	123	R, A(1988)
1/75	80	R, A(1989)
9/75	268	R, A(1990)
9/77	132	R, A(1991)
10/78	120	R, A(1992)
10/79	108	R, A(1993)
10/80	108	R, A(1994)
10/81	108	R, A(1995)
10/82	108	R, A(1996)
10/83	108	R, A(1997)
10/84	108	R, A(1998)
10/85	108	R, A(1999)
10/86	108	R, A(2000)
10/87	108	R, A(2001)
10/88	108	R, A(2002)
10/89	108	R, A(2003)
10/90	108	

Comments: The unit lost full core reserve in 1975. The pool capacity is being expanded in phases with the first phase scheduled for completion prior to the 1978 shutdown.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Northern States Power Co. / Prairie Island - 1 / PWR
MW_t/MW_e (net) : 1650/530
Commercial Operation Date : 12/73
Storage Pool Size (FA) - Current: 687 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 202

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/76	41	R, A(1982)
3/77	40	R, A(1983)
3/78	40	R, A(1984)
4/79	41	R, A(1985)
4/80	40	R, A(1986)
4/81	40	R, A(1987)
4/82	41	R, A(1988)
4/83	40	R, A(1989)
4/84	40	R, A(1990)
4/85	41	R, A(1991)
4/86	40	R, A(1992)
4/87	40	R, A(1993)
4/88	41	R, A(1994)
4/89	40	R, A(1995)
4/90	40	R, A(1996)

Comments: Prairie Island - 1 and - 2 have a common spent fuel storage pool. The pool was expanded from 198 fuel assemblies in 1977 with non-poison racks.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Northern States Power Co. / Prairie Island - 2 / PWR
MW_t/MW_e (net) : 1650/530
Commercial Operation Date : 12/74
Storage Pool Size (FA) - Current: 687 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 202

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/76	41	R, A(1983)
11/77	40	R, A(1984)
10/78	40	R, A(1985)
12/79	41	R, A(1986)
2/81	40	R, A(1987)
4/82	40	R, A(1988)
6/83	41	R, A(1990)
8/84	40	R, A(1991)
10/85	40	R, A(1992)
12/86	41	R, A(1993)
2/88	40	R, A(1994)
4/89	40	R, A(1995)
6/90	41	R, A(1996)

Comments: Prairie Island - 1 and - 2 have a common spent fuel storage pool. The pool was expanded from 198 fuel assemblies in 1977 with non-poison racks.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Northern States Power Co. / Tyrone - 1 / PWR
MW_t/MW_e (net) : 3411/1160
Commercial Operation Date : 5/85
Storage Pool Size (FA) - Current: 960 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/86	60	R, A(1998)
11/87	60	R, A(1999)
11/88	60	R, A(2000)
11/89	60	R, A(2001)
11/90	60	R, A(2002)

Comments: The utility considers a storage capacity of 1240 fuel assemblies as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Ohio Edison Co. / Erie - 1 / PWR
MW_t/MW_e (net) : 3760/1260
Commercial Operation Date : 4/86
Storage Pool Size (FA) - Current: 1060 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
12/87	56	R, A(1995)
12/88	57	R, A(1996)
12/89	56	R, A(1997)
12/90	56	R, A(1998)

Comments: Erie - 1 and - 2 share a common spent fuel storage pool. The pool capacity was upgraded from an initial capacity of 696 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Ohio Edison Co. / Erie - 2 / PWR
MW_t/MW_e (net) : 3760/1260
Commercial Operation Date : 4/88
Storage Pool Size (FA) - Current: 1060 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
12/89	56	R, A(1994)
12/90	57	R, A(1995)

Comments: Erie - 1 and - 2 share a common spent fuel storage pool.
The pool capacity was upgraded from an initial capacity
of 696 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Omaha Public Power District / Fort Calhoun Station 1 / PWR
MW_t/MW_e (net) : 1420/457
Commercial Operation Date : 9/73
Storage Pool Size (FA) - Current: 483 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 113

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
2/75	25	R, A(1984)
10/76	36	R, A(1986)
9/77	52	R, A(1987)
10/78	44	R, A(1988)
1/80	44	R, A(1990)
4/81	44	R, A(1991)
10/82	44	R, A(1992)
1/84	44	R, A(1994)
4/85	44	R, A(1995)
10/86	44	R, A(1996)
1/88	44	R, A(1998)
4/89	44	R, A(1999)
10/90	44	R, A(2000)

Comments: The storage pool capacity was expanded from 178 fuel assemblies in 1976.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Pacific Gas & Electric Co. / Diablo Canyon - 1 / PWR
MW_t/MW_e (net) : 3250/1060
Commercial Operation Date : 2/79
Storage Pool Size (FA) - Current: 270 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
1/80	64	R, A(1980)
1/81	64	R, A(1981)
1/82	64	R, A(1982)
1/83	64	R, A(1983)
1/84	64	R, A(1984)
1/85	64	R, A(1985)
1/86	64	R, A(1986)
1/87	64	R, A(1987)
1/88	64	R, A(1988)
1/89	64	R, A(1989)
1/90	64	R, A(1990)

Comments: The utility considers the storage pool to have a maximum capacity of 1650 fuel assemblies and will probably apply for permission to expand after receiving an operating license.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Pacific Gas and Electric Company / Diablo Canyon-2 / PWR
MW_t/MW_e (net) : 3250/1060
Commercial Operation Date : 8/79
Storage Pool Size (FA) - Current: 270 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/80	64	R, A(1981)
10/81	64	R, A(1982)
10/82	64	R, A(1983)
10/83	64	R, A(1984)
10/84	64	R, A(1985)
10/85	64	R, A(1986)
10/86	64	R, A(1987)
10/87	64	R, A(1988)
10/88	64	R, A(1989)
10/89	64	R, A(1990)
10/90	64	R, A(1991)

Comments: The utility considers the storage pool to have a maximum capacity of 1650 fuel assemblies and will probably apply for permission to expand after receiving an operating license.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Pacific Gas & Electric Co. / Humboldt Bay - 3 / BWR
MW_t/MW_e (net) : 220/63
Commercial Operation Date : 8/63
Storage Pool Size (FA) - Current: 486 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 270

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
prior to 9/78	270	NFS
	270	R, A(unknown)

Comments: Currently, this unit is shutdown for regulatory review of seismic considerations. A re-start date is indeterminate.
The normal annual discharge for the unit is 44 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Pacific Gas and Electric Company / PG&E - 1 / BWR
MW_t/MW_e (net) : 3293/1086
Commercial Operation Date : 7/85
Storage Pool Size (FA) - Current: 2000 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/87	296	R, A(1992)
10/88	200	R, A(1993)
10/89	176	R, A(1994)
10/90	216	R, A(1995)

Comments: The current pool capacity is based on a projected 200 fuel assembly per year average discharge for ten years.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Pacific Gas and Electric Company / PG&E - 2 / BWR
MW_t/MW_e (net) : 3293/1086
Commercial Operation Date : 7/86
Storage Pool Size (FA) - Current: 2000 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/88	296	R, A(1993)
10/89	200	R, A(1994)
10/90	176	R, A(1995)

Comments: The current pool capacity is based on a projected 200 fuel assembly per year average discharge for ten years.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Pennsylvania P & L Co. / Susquehanna - 1 / BWR
MW_t/MW_e (net) : 3293/1050
Commercial Operation Date : 2/81
Storage Pool Size (FA) - Current: 1020 Expanded: 2026 Date: 1980
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/82	248	R, A(1990)
8/83	200	R, A(1991)
8/84	184	R, A(1992)
8/85	184	R, A(1993)
8/86	184	R, A(1994)
8/87	184	R, A(1995)
8/88	184	R, A(1996)
8/89	184	R, A(1997)
8/90	184	R, A(1998)

Comments: The utility considers the maximum pool capacity as 3040 fuel assemblies. At a minimum, the pool capacity will be expanded to 2026 fuel assemblies. Only one full core reserve will be maintained at the station. Therefore, each pool will maintain 1/2 full core reserve.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Pennsylvania P & L Co. / Susquehanna - 2 / BWR
MW_t/MW_e (net) : 3293/1050
Commercial Operation Date : 5/82
Storage Pool Size (FA) - Current: 1020 Expanded: 2026 Date: 1980
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/83	260	R, A(1991)
10/84	192	R, A(1992)
10/85	180	R, A(1993)
10/86	184	R, A(1994)
10/87	184	R, A(1995)
10/88	184	R, A(1996)
10/89	184	R, A(1997)
10/90	184	R, A(1998)

Comments: The utility considers the maximum pool capacity as 3040 fuel assemblies. At a minimum, the pool capacity will be expanded to 2026 fuel assemblies. Only one full core reserve will be maintained at the station. Therefore, each pool will maintain 1/2 full core reserve.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Philadelphia Electric Co. / Limerick - 1 / BWR
MW_t/MW_e (net) : 3293/1064
Commercial Operation Date : 4/85
Storage Pool Size (FA) - Current: 1010 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/86	236	R, A(1987)
9/87	200	R, A(1988)
9/88	176	R, A(1989)
9/89	184	R, A(1990)
9/90	192	R, A(1991)

Comments: Limerick - 1 and - 2 share a common spent fuel storage pool.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Philadelphia Electric Co. / Limerick - 2 / BWR
MW_t/MW_e (net) : 3293/1064
Commercial Operation Date : 4/87
Storage Pool Size (FA) - Current: 1010 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/88	236	R, A(1989)
9/89	200	R, A(1990)
9/90	176	R, A(1991)

Comments: Limerick - 1 and - 2 share a common spent fuel storage pool.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Philadelphia Electric Co. / Peach Bottom - 2 / BWR
MW_t/MW_e (net) : 3293/1065
Commercial Operation Date : 5/74
Storage Pool Size (FA) - Current: 1110 Expanded: 2608 Date: 1979
Storage Pool Inventory (FA): 358

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/76	2	INEL
	186	R, A(1985)
4/77	172	R, A(1987)
9/78	268	R, A(1988)
2/80	240	R, A(1990)
8/81	268	R, A(1991)
2/83	252	R, A(1993)
8/84	260	R, A(1994)
2/86	256	R, A(1996)
8/87	256	R, A(1997)
2/89	260	R, A(1999)
8/90	256	R, A(2000)

Comments: The utility considers a pool capacity of 2816 fuel assemblies using high density, poison racks as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Philadelphia Electric Co. / Peach Bottom - 3 / BWR
MW_t/MW_e (net) : 3293/1065
Commercial Operation Date : 12/74
Storage Pool Size (FA) - Current: 1110 Expanded: 2608 Date: 1979
Storage Pool Inventory (FA): 440

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
12/76	188	R, A(1986)
4/78	252	R, A(1988)
10/79	220	R, A(1989)
4/81	272	R, A(1991)
10/82	252	R, A(1992)
4/84	260	R, A(1994)
10/85	256	R, A(1995)
4/87	256	R, A(1997)
10/88	260	R, A(1998)
4/90	256	R, A(2000)

Comments: The utility considers a pool capacity of 2816 fuel assemblies as maximum. Full core reserve was lost during the 1978 re-fuelling and will be regained with the pool expansion.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Portland General Electric Co. / Pebble Springs - 1 / PWR
MW_t/MW_e (net) : 3600/1260
Commercial Operation Date : 4/86
Storage Pool Size (FA) - Current: 273 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
2/88	68	R, A(1988)
1/89	69	R, A(1989)
1/90	68	R, A(1990)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Portland General Electric Co. / Pebble Springs - 2 / PWR
MW_t/MW_e (net) : 3600/1260
Commercial Operation Date : 4/89
Storage Pool Size (FA) - Current: 273 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/90	68	R, A(1991)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Portland General Electric Co / Trojan Station / PWR
MW_t/MW_e (net) : 3411/1130
Commercial Operation Date : 5/76
Storage Pool Size (FA) - Current: 280 Expanded: 651 Date: 1978
Storage Pool Inventory (FA): 64

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location
5/78	64	R, A(1985)
7/79	60	R, A(1986)
7/80	60	R, A(1987)
7/81	60	R, A(1988)
7/82	60	R, A(1989)
7/83	60	R, A(1990)
7/84	60	R, A(1991)
7/85	60	R, A(1992)
7/86	60	R, A(1993)
7/87	60	R, A(1994)
7/88	60	R, A(1995)
7/89	60	R, A(1996)
7/90	60	R, A(1997)

Comments: The utility considers a capacity of 1008 fuel assemblies as maximum if accompanied by some structural modifications. The unit is currently shutdown for seismic re-evaluation. Consequently, the discharge dates may slip by several months for future reloads.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : PASNY / James A. Fitzpatrick / BWR
MW_t/MW_e (net) : 2436/821
Commercial Operation Date : 7/75
Storage Pool Size (FA) - Current: 840 Expanded: 2244 Date: 1979
Storage Pool Inventory (FA): 132

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/77	132	R, A(1988)
9/78	136	R, A(1989)
9/79	144	R, A(1990)
9/80	140	R, A(1991)
9/81	144	R, A(1992)
9/82	144	R, A(1993)
9/83	144	R, A(1994)
9/84	144	R, A(1995)
9/85	144	R, A(1996)
9/86	144	R, A(1997)
9/87	144	R, A(1998)
9/88	144	R, A(1999)
9/89	144	R, A(2000)
9/90	144	R, A(2001)

Comments: The utility considers the expanded storage capacity to be the maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : PASNY / Greene County / PWR
MW_t/MW_e (net) : 3600/1200
Commercial Operation Date : 7/86
Storage Pool Size (FA) - Current: 964 Expanded: N/A Date: N/A
Storage Pool Inventory (FA):

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/88	68	R, A(1999)
10/89	68	R, A(2000)
10/90	68	R, A(2001)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : PASNY / Indian Point Station - 3 / PWR
MW_t/MW_e (net) : 3025/965
Commercial Operation Date : 9/76
Storage Pool Size (FA) - Current: 840 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 51

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/78	51	R, A(1988)
6/79	65	R, A(1989)
6/80	65	R, A(1990)
6/81	65	R, A(1991)
6/82	65	R, A(1992)
6/83	65	R, A(1993)
6/84	65	R, A(1994)
6/85	65	R, A(1995)
6/86	65	R, A(1996)
6/87	65	R, A(1997)
6/88	65	R, A(1998)
6/89	65	R, A(1999)
6/90	65	R, A(2000)

Comments: The spent fuel storage pool was expanded from 264 fuel assemblies in 1978.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : PSE&G of NJ / Atlantic - 1 / PWR
MW_t/MW_e (net) : 3411/1150
Commercial Operation Date : 5/88
Storage Pool Size (FA) - Current: 1170 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/89	64	R, A(2003)
4/90	64	R, A(2004)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : PSE&G of NJ / Hope Creek - 1 / BWR
MW_t/MW_e (net) : 3293/1067
Commercial Operation Date : 5/84
Storage Pool Size (FA) - Current: 1146 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/86	240	R, A(1986)
3/87	196	R, A(1987)
3/88	176	R, A(1988)
3/89	164	R, A(1989)
3/90	180	R, A(1990)

Comments: The storage pool will be expanded; however, the expanded size has not been determined.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : PSE&G of NJ / Hope Creek - 2 / BWR
MW_t/MW_e (net) : 3293/1067
Commercial Operation Date : 5/86
Storage Pool Size (FA) - Current: 1146 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/88	240	R, A(1988)
3/89	196	R, A(1989)
3/90	176	R, A(1990)

Comments: The storage pool will be expanded; however the expanded size has not been determined.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : PSE&G of NJ / Salem - 1 / PWR
MW_t/MW_e (net) : 3338/1090
Commercial Operation Date : 6/77
Storage Pool Size (FA) - Current: 264 Expanded: 1170 Date: 1979
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/78	60	R, A(1992)
9/79	64	R, A(1993)
9/80	64	R, A(1994)
9/81	64	R, A(1995)
9/82	64	R, A(1996)
9/83	64	R, A(1997)
9/84	64	R, A(1998)
9/85	64	R, A(1999)
9/86	64	R, A(2000)
9/87	64	R, A(2001)
9/88	64	R, A(2002)
9/89	64	R, A(2003)
9/90	64	R, A(2004)

Comments: The utility considers the expanded pool capacity to be the maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : PSE&G of NJ / Salem - 2 / PWR
MW_t/MW_e (net) : 3411/1115
Commercial Operation Date : 5/79
Storage Pool Size (FA) - Current: 264 Expanded: 1170 Date: 1979
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/80	64	R, A(1995)
10/81	64	R, A(1996)
10/82	64	R, A(1997)
10/83	64	R, A(1998)
10/84	64	R, A(1999)
10/85	64	R, A(2000)
10/86	64	R, A(2001)
10/87	64	R, A(2002)
10/88	64	R, A(2003)
10/89	64	R, A(2004)
10/90	64	R, A(2005)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Public Service of Indiana / Marble Hill - 1 / PWR
MW_t/MW_e (net) : 3425/1130
Commercial Operation Date : 10/82
Storage Pool Size (FA) - Current: 1050 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
1/84	60	R, A(1991)
1/85	60	R, A(1992)
1/86	60	R, A(1993)
1/87	60	R, A(1994)
1/88	60	R, A(1995)
1/89	60	R, A(1996)
1/90	60	R, A(1997)

Comments: Marble Hill - 1 and - 2 share a common spent fuel storage pool. The pool capacity was upgraded from 340 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Public Service of Indiana / Marble Hill - 2 / PWR
MW_t/MW_e (net) : 3425/1130
Commercial Operation Date : 10/84
Storage Pool Size (FA) - Current: 1050 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
1/86	60	R, A(1991)
1/87	60	R, A(1992)
1/88	60	R, A(1993)
1/89	60	R, A(1994)
1/90	60	R, A(1994)

Comments: Marble Hill - 1 and - 2 share a common spent fuel storage pool. The pool capacity was upgraded from 340 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : P.S. of New Hampshire / Seabrook - 1 / PWR

MW_t/MW_e (net) : 3411/1150

Commercial Operation Date : 12/82

Storage Pool Size (FA) - Current: 280 Expanded: N/A Date: N/A

Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
5/84	64	R, A(1984)
5/85	64	R, A(1985)
5/86	65	R, A(1986)
5/87	64	R, A(1987)
5/88	64	R, A(1988)
5/89	65	R, A(1989)
5/90	64	R, A(1990)

Comments: The utility considers the maximum storage pool capacity to be 1020 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : P.S. of New Hampshire / Seabrook - 2 / PWR
MW_t/MW_e (net) : 3411/1150
Commercial Operation Date : 12/84
Storage Pool Size (FA) - Current: 280 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
6/86	64	R, A(1987)
6/87	64	R, A(1988)
6/88	65	R, A(1989)
6/89	64	R, A(1990)
6/90	64	R, A(1991)

Comments: The utility considers the maximum storage capacity to be 1020 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Public Service of Oklahoma / Black Fox - 1 / BWR
MW_t/MW_e (net) : 3579/1150
Commercial Operation Date : 4/84
Storage Pool Size (FA) - Current: 1070 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/85	232	R, A(1985)
3/86	164	R, A(1986)
3/87	164	R, A(1987)
3/88	164	R, A(1988)
3/89	164	R, A(1989)
3/90	164	R, A(1990)

Comments: The actual storage pool capacity has not been selected.
The utility considers the maximum storage pool capacity
to be 2951 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Public Service of Oklahoma / Black Fox - 2 / BWR
MW_t/MW_e (net) : 3579/1150
Commercial Operation Date : 4/86
Storage Pool Size (FA) - Current: 1070 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/87	260	R, A(1988)
8/88	224	R, A(1989)
8/89	224	R, A(1990)
8/90	224	R, A(1991)

Comments: The actual storage pool capacity has not been selected.
The utility considers the maximum storage pool capacity
to be 2951 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Puget Sound Power & Light Co. / Skagit - 1 / BWR
MW_t/MW_e (net) : 3833/1288
Commercial Operation Date : 7/85
Storage Pool Size (FA) - Current: 1210 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/86	268	R, A(1987)
8/87	200	R, A(1988)
8/88	168	R, A(1989)
8/89	184	R, A(1990)
8/90	196	R, A(1991)

Comments: The utility considers a storage pool capacity of 2904
fuel assemblies as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Puget Sound Power & Light Co. / Skagit - 2 / BWR
MW_t/MW_e (net) : 3833/1288
Commercial Operation Date : 7/87
Storage Pool Size (FA) - Current: 1210 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/88	268	R, A(1989)
9/89	200	R, A(1990)
9/90	168	R, A(1991)

Comments: The utility considers a storage pool capacity of 2904
fuel assemblies as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Rochester Gas & Electric Co. / R. E. Ginna / PWR
MW_t/MW_e (net) : 1520/490
Commercial Operation Date : 3/70
Storage Pool Size (FA) - Current: 595 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 156

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/71	12	NFS
4/72	61	NFS
10/72	48	NFS
1/74	12	R, A(1987)
3/75	25	R, A(1988)
1/76	37	R, A(1989)
4/77	41	R, A(1990)
3/78	41	R, A(1991)
4/79	40	R, A(1992)
4/80	36	R, A(1993)
4/81	36	R, A(1994)
4/82	36	R, A(1995)
4/83	36	R, A(1996)
4/84	36	R, A(1997)
4/85	36	R, A(1998)
4/86	36	R, A(1999)
4/87	36	R, A(2000)
4/88	36	R, A(2001)
4/89	36	R, A(2002)
4/90	36	R, A(2003)

Comments: The storage capacity was previously expanded from 210 fuel assemblies in 1977. The utility considers the current capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Rochester Gas & Electric / Sterling / PWR
MW_t/MW_e (net) : 3411/1157
Commercial Operation Date : 3/86
Storage Pool Size (FA) - Current: 400 Expanded: 960 Date: Undetermined
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/87	60	R, A(1999)
11/88	60	R, A(2000)
11/89	60	R, A(2001)
11/90	60	R, A(2002)

Comments: Sterling is a SNUPPS plant, and therefore has the option
to upgrade the storage pool capacity to 960 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Sacramento Municipal Utility District / Rancho Seco / PWR
MW_t/MW_e (net) : 2772/913
Commercial Operation Date : 4/75
Storage Pool Size (FA) - Current: 579 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 51

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/77	51	R, A(1984)
10/78	57	R, A(1985)
10/79	60	R, A(1986)
10/80	60	R, A(1987)
10/81	56	R, A(1988)
10/82	56	R, A(1989)
10/83	56	R, A(1990)
10/84	56	R, A(1991)
10/85	56	R, A(1992)
10/86	56	R, A(1993)
10/87	56	R, A(1994)
10/88	56	R, A(1995)
10/89	56	R, A(1996)
10/90	56	R, A(1997)

Comments: The storage pool was expanded from 244 fuel assemblies in 1977. The utility considers the maximum pool capacity to be approximately 1000 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : South Carolina Electric & Gas / Virgil C. Summer - 1 / PWR
MW_t/MW_e (net) : 2775/900
Commercial Operation Date : 5/80
Storage Pool Size (FA) - Current: 682 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/82	52	R, A(1992)
9/83	52	R, A(1993)
9/84	52	R, A(1994)
9/85	52	R, A(1995)
9/86	52	R, A(1996)
9/87	52	R, A(1997)
9/88	52	R, A(1998)
9/89	52	R, A(1999)
9/90	52	R, A(2000)

Comments: The storage pool was upgraded from 216 fuel assemblies
in 1978.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : South Texas Project / South Texas - 1 / PWR

MW_t/MW_e (net) : 3100/1250

Commercial Operation Date : 10/80

Storage Pool Size (FA) - Current: 324 Expanded: 724 Date: 1980

Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/81	32	R, A(1988)
4/82	42	R, A(1988)
11/82	32	R, A(1989)
4/83	42	R, A(1989)
11/83	32	R, A(1990)
4/84	42	R, A(1990)
11/84	32	R, A(1991)
4/85	42	R, A(1991)
11/85	32	R, A(1992)
4/86	42	R, A(1992)
11/86	32	R, A(1993)
4/87	42	R, A(1993)
11/87	32	R, A(1994)
4/88	42	R, A(1994)
11/88	32	R, A(1995)
4/89	42	R, A(1995)
11/89	32	R, A(1996)
4/90	42	R, A(1996)
11/90	32	R, A(1997)

Comments: South Texas - 1 and - 2 are managed by Houston Lighting and Power. The commercial operation date is expected to slip 1 to 2 years.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : South Texas Project / South Texas - 2 / PWR
MW_t/MW_e (net) : 3800/1250
Commercial Operation Date : 3/82
Storage Pool Size (FA) - Current: 324 Expanded: 724 Date: 1982
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/83	32	R, A(1990)
9/83	42	R, A(1991)
4/84	32	R, A(1991)
9/84	42	R, A(1992)
4/85	32	R, A(1992)
9/85	42	R, A(1993)
4/86	32	R, A(1993)
9/86	42	R, A(1994)
4/87	32	R, A(1994)
9/87	42	R, A(1995)
4/88	32	R, A(1995)
9/88	42	R, A(1996)
4/89	32	R, A(1996)
9/89	42	R, A(1997)
4/90	32	R, A(1997)
9/90	42	R, A(1998)

Comments: South Texas - 1 and - 2 are managed by Houston Lighting and Power. The commercial operation date is expected to slip 1 to 2 years.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Southern California Edison / San Onofre-1 / PWR
MW_t/MW_e (net) : 1347/430
Commercial Operation Date : 1/68
Storage Pool Size (FA) - Current: 216 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 6

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/70	2	R, A(1982)
	50	MSF
12/71	52	MSF
6/73	4	R, A(1982)
	48	MSF
3/75	52	MSF
9/76	52	MSF
9/78	52	MSF(1979)
3/80	52	MSF(1980)
9/81	52	R, A(1982)
3/83	52	R, A(1984)
9/84	52	R, A(1985)
3/86	52	R, A(1987)
9/87	52	R, A(1988)
3/89	52	R, A(1990)
9/90	52	R, A(1991)

Comments: The utility does not intend to expand the spent fuel pool capacity. As an alternate, the utility is considering shuffling spent fuel between all three San Onofre units.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Southern California Edison / San Onofre - 2 / PWR
MW_t/MW_e (net) : 3390/1140
Commercial Operation Date : 10/80
Storage Pool Size (FA) - Current: 800 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
12/81	72	R, A(1989)
12/82	72	R, A(1990)
12/83	72	R, A(1991)
12/84	72	R, A(1992)
12/85	72	R, A(1993)
12/86	72	R, A(1994)
12/87	72	R, A(1995)
12/88	72	R, A(1996)
12/89	72	R, A(1997)
12/90	72	R, A(1998)

Comments: The storage pool capacity was previously upgraded from
300 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Southern California Edison / San Onofre - 3 / PWR
MW_t/MW_e (net) : 3390/1140
Commercial Operation Date : 1/82
Storage Pool Size (FA) - Current: 800 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/83	72	R, A(1990)
3/84	72	R, A(1991)
3/85	72	R, A(1992)
3/86	72	R, A(1993)
3/87	72	R, A(1994)
3/88	72	R, A(1995)
3/89	72	R, A(1996)
3/90	72	R, A(1997)

Comments: The storage pool capacity was previously upgraded
from 300 fuel assemblies.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Bellefonte - 1 / PWR
MW_t/MW_e (net) : 3600/1213
Commercial Operation Date : 6/80
Storage Pool Size (FA) - Current: 288 Expanded: 1050 Date: 1979
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/82	69	R, A(1994)
9/83	68	R, A(1995)
9/84	68	R, A(1996)
9/85	68	R, A(1997)
9/86	68	R, A(1998)
9/87	68	R, A(1999)
9/88	68	R, A(2000)
9/89	68	R, A(2001)
9/90	68	R, A(2002)

Comments: The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Bellefonte - 2 / PWR
MW_t/MW_e (net) : 3600/1213
Commercial Operation Date : 3/81
Storage Pool Size (FA) - Current: 288 Expanded: 1050 Date: 1979
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/83	69	R, A(1995)
3/84	68	R, A(1996)
3/85	68	R, A(1997)
3/86	68	R, A(1998)
3/87	68	R, A(1999)
3/88	68	R, A(2000)
3/89	68	R, A(2001)
3/90	68	R, A(2002)

Comments: The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Browns Ferry - 1 / BWR
MW_t/MW_e (net) : 3293/1067
Commercial Operation Date : 8/74
Storage Pool Size (FA) - Current: 1080 Expanded: 3471 Date: 1981
Storage Pool Inventory (FA): 168

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/77	168	R, A(1993)
10/78	184	R, A(1994)
5/80	252	R, A(1996)
11/81	252	R, A(1997)
5/83	252	R, A(1999)
11/84	252	R, A(2000)
5/86	252	R, A(2002)
11/87	252	R, A(2003)
5/89	252	R, A(2005)
11/90	252	R, A(2006)

Comments: The storage pool will undergo an interim expansion to
a 1521 fuel assembly capacity in 1980.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Browns Ferry - 2 / BWR
MW_t/MW_e (net) : 3293/1067
Commercial Operation Date : 3/75
Storage Pool Size (FA) - Current: 1080 Expanded: 3471 Date: 1981
Storage Pool Inventory (FA): 132

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/78	132	R, A(1994)
4/79	184	R, A(1995)
12/80	252	R, A(1997)
6/82	252	R, A(1998)
12/83	252	R, A(2000)
6/85	252	R, A(2001)
12/86	252	R, A(2003)
6/88	252	R, A(2004)
12/89	252	R, A(2006)

Comments: The storage pool will undergo an interim expansion to a
1521 fuel assembly capacity in 1980.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Browns Ferry - 3 / BWR
MW_t/MW_e (net) : 3293/1067
Commercial Operation Date : 3/77
Storage Pool Size (FA) - Current: 1183 Expanded: 3471 Date: 1981
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/78	208	R, A(1993)
10/79	184	R, A(1994)
10/80	168	R, A(1996)
10/81	168	R, A(1997)
2/83	252	R, A(1999)
10/84	252	R, A(2000)
2/86	252	R, A(2002)
10/87	252	R, A(2003)
2/89	252	R, A(2005)
10/90	252	R, A(2006)

Comments: The storage pool capacity was expanded from 1080 fuel assemblies in 1978. The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Hartsville - 1 / BWR
MW_t/MW_e (net) : 3579/1233
Commercial Operation Date : 6/83
Storage Pool Size (FA) - Current: 1060 Expanded: 2951 Date: 1981
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/84	187	R, A(1995)
9/85	187	R, A(1996)
9/86	187	R, A(1997)
9/87	187	R, A(1998)
9/88	187	R, A(1999)
9/89	187	R, A(2000)
9/90	187	R, A(2001)

Comments: The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Hartsville - 2 / BWR
MW_t/MW_e (net) : 3579/1233
Commercial Operation Date : 6/84
Storage Pool Size (FA) - Current: 1060 Expanded: 2951 Date: 1982
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/85	187	R, A(1996)
8/86	187	R, A(1997)
8/87	187	R, A(1998)
8/88	187	R, A(1999)
8/89	187	R, A(2000)
8/90	187	R, A(2001)

Comments: The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Hartsville - 3 / BWR
MW_t/MW_e (net) : 3579/1233
Commercial Operation Date : 12/83
Storage Pool Size (FA) - Current: 1060 Expanded: 2951 Date: 1982
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/85	187	R, A(1995)
3/86	187	R, A(1996)
3/87	187	R, A(1997)
3/88	187	R, A(1998)
3/89	187	R, A(1999)
3/90	187	R, A(2000)

Comments: The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Hartsville - 4 / BWR
MW_t/MW_e (net) : 3579/1233
Commercial Operation Date : 12/84
Storage Pool Size (FA) - Current: 1060 Expanded: 2951 Date: 1983
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
2/86	187	R, A(1996)
2/87	187	R, A(1997)
2/88	187	R, A(1998)
2/89	187	R, A(1999)
2/90	187	R, A(2000)

Comments: The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Phipps Bend - 1 / BWR
MW_t/MW_e (net) : 3579/1233
Commercial Operation Date : 8/84
Storage Pool Size (FA) - Current: 1060 Expanded: 2951 Date: 1982
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/85	187	R, A(1996)
9/86	187	R, A(1997)
9/87	187	R, A(1998)
9/88	187	R, A(1999)
9/89	187	R, A(2000)
9/90	187	R, A(2001)

Comments: The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Phipps Bend - 2 / BWR
MW_t/MW_e (net) : 3579/1233
Commercial Operation Date : 8/85
Storage Pool Size (FA) - Current: 1060 Expanded: 2951 Date: 1983
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/86	187	R, A(1997)
9/87	187	R, A(1998)
9/88	187	R, A(1999)
9/89	187	R, A(2000)
9/90	187	R, A(2001)

Comments: The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Sequoyah - 1 / PWR
MW_t/MW_e (net) : 3411/1148
Commercial Operation Date : 6/79
Storage Pool Size (FA) - Current: 800 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/80	65	R, A(1985)
11/81	64	R, A(1986)
11/82	64	R, A(1987)
11/83	64	R, A(1988)
11/84	64	R, A(1989)
11/85	64	R, A(1990)
11/86	64	R, A(1991)
11/87	64	R, A(1992)
11/88	64	R, A(1993)
11/89	64	R, A(1994)
11/90	64	R, A(1995)

Comments: Sequoyah - 1 and - 2 share a common spent fuel storage pool.
The pool capacity was previously expanded from 320 fuel
assemblies in 1977. The utility considers the expanded
capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Sequoyah - 2 / PWR
MW_t/MW_e (net) : 3411/1448
Commercial Operation Date : 2/80
Storage Pool Size (FA) - Current: 800 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/81	65	R, A(1984)
4/82	64	R, A(1985)
4/83	64	R, A(1986)
4/84	64	R, A(1987)
4/85	64	R, A(1988)
4/86	64	R, A(1989)
4/87	64	R, A(1990)
4/88	64	R, A(1991)
4/89	64	R, A(1992)
4/90	64	R, A(1993)

Comments: Sequoyah - 1 and - 2 share a common spent fuel storage pool.
The pool capacity was previously expanded from 320 fuel
assemblies in 1977. The utility considers the expanded
capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Watts Bar - 1 / PWR
MW_t/MW_e (net) : 3411/1177
Commercial Operation Date : 11/79
Storage Pool Size (FA) - Current: 320 Expanded: 1296 Date: 1978
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/80	65	R, A(1989)
9/81	64	R, A(1990)
9/82	64	R, A(1991)
9/83	64	R, A(1992)
9/84	64	R, A(1993)
9/85	64	R, A(1994)
9/86	64	R, A(1995)
9/87	64	R, A(1996)
9/88	64	R, A(1997)
9/89	64	R, A(1998)
9/90	64	R, A(1999)

Comments: Watts Bar - 1 and - 2 share a common spent fuel storage pool.
The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Watts Bar - 2 / PWR
MW_t/MW_e (net) : 3411/1177
Commercial Operation Date : 8/80
Storage Pool Size (FA) - Current: 320 Expanded: 1296 Date: 1978
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
5/81	65	R, A(1988)
5/82	64	R, A(1989)
5/83	64	R, A(1990)
5/84	64	R, A(1991)
5/85	64	R, A(1992)
5/86	64	R, A(1993)
5/87	64	R, A(1994)
5/88	64	R, A(1995)
5/89	64	R, A(1996)
5/90	64	R, A(1997)

Comments: Watts Bar - 1 and - 2 share a common spent fuel storage pool.
The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Yellow Creek - 1 / PWR
MW_t/MW_e (net) : 3817/1300
Commercial Operation Date : 3/85
Storage Pool Size (FA) - Current: 325 Expanded: 1300 Date: 1983
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
5/86	80	R, A(1998)
5/87	81	R, A(1999)
5/88	80	R, A(2000)
5/89	80	R, A(2001)
5/90	81	R, A(2002)

Comments: The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Tennessee Valley Authority / Yellow Creek - 2 / PWR
MW_t/MW_e (net) : 3817/1300
Commercial Operation Date : 3/86
Storage Pool Size (FA) - Current: 325 Expanded: 1300 Date: 1984
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
5/87	80	R, A(1999)
5/88	81	R, A(2000)
5/89	80	R, A(2001)
5/90	80	R, A(2002)

Comments: The utility considers the expanded capacity as maximum.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Texas Utilities / Comanche Peak - 1 / PWR

MW_t/MW_e (net) : 3411/1150

Commercial Operation Date : 1/81

Storage Pool Size (FA) - Current: 200 Expanded: 500 Date: 1981

Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
5/82	64	R, A(1986)
5/83	64	R, A(1987)
5/84	64	R, A(1988)
5/85	64	R, A(1989)
5/86	64	R, A(1990)
5/87	64	R, A(1991)
5/88	64	R, A(1992)
5/89	64	R, A(1993)
5/90	64	R, A(1994)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Texas Utilities / Comanche Peak - 2 / PWR
MW_t/MW_e (net) : 3411/1150
Commercial Operation Date : 1/83
Storage Pool Size (FA) - Current: 200 Expanded: 500 Date: 1983
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
5/84	64	R, A(1988)
5/85	64	R, A(1989)
5/86	64	R, A(1990)
5/87	64	R, A(1991)
5/88	64	R, A(1992)
5/89	64	R, A(1993)
5/90	64	R, A(1994)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Toledo Edison / Davis-Besse - 1 / PWR
MW_t/MW_e (net) : 2772/906
Commercial Operation Date : 7/78
Storage Pool Size (FA) - Current: 260 Expanded: 735 Date: 1979
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/79	18	R, A(1989)
10/80	65	R, A(1990)
10/81	73	R, A(1991)
10/82	52	R, A(1992)
10/83	52	R, A(1993)
10/84	52	R, A(1994)
10/85	52	R, A(1995)
10/86	52	R, A(1996)
10/87	52	R, A(1997)
10/88	52	R, A(1998)
10/89	52	R, A(1999)
10/90	52	R, A(2000)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Toledo Edison / Davis-Besse - 2 / PWR
MW_t/MW_e (net) : 2772/906
Commercial Operation Date : 4/85
Storage Pool Size (FA) - Current: 735 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/86	52	R, A(1995)
9/87	52	R, A(1996)
9/88	52	R, A(1997)
9/89	52	R, A(1997)
9/90	52	R, A(1998)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Toledo Edison / Davis-Besse - 3 / PWR
MW_t/MW_e (net) : 2772/906
Commercial Operation Date : 4/87
Storage Pool Size (FA) - Current: 735 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/88	52	R, A(1998)
9/89	52	R, A(1999)
9/90	52	R, A(2000)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Union Electric Co. of St. Louis / Callaway County - 1 / PWR
MW_t/MW_e (net) : 3411/1160
Commercial Operation Date : 10/82
Storage Pool Size (FA) - Current: 400 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/84	64	R, A(1986)
3/85	64	R, A(1987)
3/86	64	R, A(1988)
3/87	64	R, A(1989)
3/88	64	R, A(1990)
3/89	64	R, A(1991)
3/90	64	R, A(1992)

Comments: Callaway County - 1 and - 2 are SNUPPS plants, and therefore
may upgrade the storage pools to 960 fuel assemblies, if desired.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Union Electric Co. of St. Louis / Callaway County - 2 / PWR
MW_t/MW_e (net) : 3411/1160
Commercial Operation Date : 4/87
Storage Pool Size (FA) - Current: 400 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/88	64	R, A(1991)
9/89	64	R, A(1992)
9/90	64	R, A(1993)

Comments: Callaway County - 1 and - 2 are SNUPPS plants, and therefore
may upgrade the storage pools to 960 fuel assemblies, if desired.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Vermont Yankee NPC / Vermont Yankee / BWR
MW_t/MW_e (net) : 1593/574
Commercial Operation Date : 11/72
Storage Pool Size (FA) - Current: 2000 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 694 *

Fuel Discharged and Storage Location

<u>Discharge Date Month/Year</u>	<u>Assemblies Discharged Number</u>	<u>Assembly Location</u>
1/73	8	R, A(1987)
9/73	40	R, A(1987)
11/74	328	R, A(1988-90)
6/76	136	R, A(1991)
8/77	84	R, A(1992)
8/78	96	R, A(1993)
9/79	108	R, A(1994)
9/80	108	R, A(1995)
9/81	104	R, A(1996)
9/82	108	R, A(1997)
9/83	104	R, A(1998)
9/84	108	R, A(1999)
9/85	104	R, A(2000)
9/86	108	R, A(2001)
9/87	104	R, A(2002)
9/88	108	R, A(2003)
9/89	104	R, A(2004)
9/90	108	R, A(2005)

Comments: The storage pool capacity was previously expanded from 400
fuel assemblies.

* 2 scrap fuel assemblies in pool.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Virginia Electric & Power Co. / North Anna - 1 / PWR
MW_t/MW_e (net) : 2775/898
Commercial Operation Date : 5/78
Storage Pool Size (FA) - Current: 400 Expanded: 966 Date: 1978
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/79	53	R, A(1994)
10/80	52	R, A(1995)
10/81	52	R, A(1996)
10/82	52	R, A(1997)
10/83	52	R, A(1998)
10/84	52	R, A(1999)
10/85	52	R, A(2000)
10/86	52	R, A(2001)
10/87	52	R, A(2002)
10/88	52	R, A(2003)
10/89	52	R, A(2004)
10/90	52	R, A(2005)

Comments: North Anna - 1 and - 2 share a common spent fuel storage pool.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Virginia Electric & Power Co. / North Anna - 2 / PWR
MW_t/MW_e (net) : 2775/855
Commercial Operation Date : 6/79
Storage Pool Size (FA) - Current: 400 Expanded: 966 Date: 1978
Storage Pool Inventory (FA):

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
7/80	53	R, A(1995)
7/81	52	R, A(1996)
7/82	52	R, A(1997)
7/83	52	R, A(1998)
7/84	52	R, A(1999)
7/85	52	R, A(2000)
7/86	52	R, A(2001)
7/87	52	R, A(2002)
7/88	52	R, A(2003)
7/89	52	R, A(2004)
7/90	52	R, A(2005)

Comments: North Anna - 1 and - 2 share a common spent fuel storage pool.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Virginia Electric & Power Co. / Surry - 1 / PWR
MW_t/MW_e (net) : 2441/788
Commercial Operation Date : 12/72
Storage Pool Size (FA) - Current: 1044 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 436

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/74	18	R, A(1992)
10/75	73	R, A(1992)
10/76	97	R, A(1994)
4/78	64	R, A(1995)
10/79	85	R, A(1997)
4/81	68	R, A(1998)
10/82	68	R, A(2000)
4/84	68	R, A(2001)
10/85	68	R, A(2003)
4/87	68	R, A(2004)
10/88	68	R, A(2006)
4/90	68	R, A(2007)

Comments: Surry - 1 and - 2 share a common spent fuel storage pool.
This pool capacity was expanded from 464 fuel assemblies
in 1978.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Virginia Electric & Power Co. / Surry - 2 / PWR
MW_t/MW_e (net) : 2441/788
Commercial Operation Date : 5/73
Storage Pool Size (FA) - Current: 1044 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 436

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
4/75	27	R, A(1993)
4/76	77	R, A(1993)
9/77	80	R, A(1995)
3/79	53	R, A(1996)
9/80	77	R, A(1998)
3/82	75	R, A(1999)
9/83	68	R, A(2001)
3/85	68	R, A(2002)
9/86	68	R, A(2004)
3/88	68	R, A(2005)
9/89	68	R, A(2007)

Comments: Surry - 1 and - 2 share a common spent fuel storage pool.
This pool capacity was expanded from 464 fuel assemblies in
1978.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Wisconsin Electric Power Co. / Haven - 1 / PWR
MW_t/MW_e (net) : 2775/900
Commercial Operation Date : 6/87
Storage Pool Size (FA) - Current: 1620 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/88	54	R, A(2014)
10/89	54	R, A(2015)
10/90	54	R, A(2016)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Wisconsin Electric Power Co. / Point Beach - 1 / PWR
MW_t/MW_e (net) : 1519/497
Commercial Operation Date : 12/70
Storage Pool Size (FA) - Current: 1488 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 373

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
9/72	9	MSF
	6	PNL
	29	NFS
4/74	77	NFS
11/75	8	NFS
	8	R, A(1995)
10/76	41	R, A(1995)
10/77	31	R, A(1995)
10/78	40	R, A(1996)
10/79	36	R, A(1997)
10/80	36	R, A(1998)
10/81	36	R, A(1999)
10/82	36	R, A(2000)
10/83	36	R, A(2001)
10/84	36	R, A(2002)
10/85	36	R, A(2003)
10/86	36	R, A(2004)
10/87	36	R, A(2005)
10/88	36	R, A(2006)
10/89	36	R, A(2007)
10/90	36	R, A(2008)

Comments: Point Beach - 1 and - 2 share a common spent fuel storage pool which had an initial capacity of 208 fuel assemblies. The capacity was previously expanded to 352 fuel assemblies in 1975. The utility is currently expanding the pool capacity to the above value.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Wisconsin Electric Power Co. / Point Beach - 2 / PWR
MW_t/MW_e (net) : 1519/497
Commercial Operation Date : 10/72
Storage Pool Size (FA) - Current: 1488 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 373

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/74	36	MSF
2/76	34	MSF
3/77	30	MSF
	7	R, A(1995)
3/78	49	R, A(1996)
4/79	23	R, A(1997)
4/80	49	R, A(1998)
4/81	36	R, A(1999)
4/82	36	R, A(2000)
4/83	36	R, A(2001)
4/84	36	R, A(2002)
4/85	36	R, A(2003)
4/86	36	R, A(2004)
4/87	36	R, A(2005)
4/88	36	R, A(2006)
4/89	36	R, A(2007)
4/90	36	R, A(2008)

Comments: Point Beach - 1 and - 2 share a common fuel storage pool which had an initial capacity of 208 fuel assemblies. The capacity was previously expanded to 352 fuel assemblies in 1975. The utility is currently expanding the pool capacity to the above value.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Wisconsin Public Service Co. / Kewaunee - 1 / PWR
MW_t/MW_e (net) : 1650/530
Commercial Operation Date : 6/74
Storage Pool Size (FA) - Current: 168 Expanded: 990 Date: 1988
Storage Pool Inventory (FA): 120

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
2/76	32	R, A(1996)
1/77	48	R, A(1997)
4/78	40	R, A(1998)
4/79	40	R, A(1999)
4/80	40	R, A(2000)
4/81	40	R, A(2001)
4/82	40	R, A(2002)
4/83	40	R, A(2003)
4/84	40	R, A(2004)
4/85	40	R, A(2005)
4/86	40	R, A(2006)
4/87	40	R, A(2007)
4/88	40	R, A(2008)
4/89	40	R, A(2009)
4/90	40	R, A(2010)

Comments: The storage pool capacity will undergo an interim expansion to 630 fuel assemblies in 1978.

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : WPPSS / WPPSS - 1 / PWR

MW_t/MW_e (net) : 3619/1218

Commercial Operation Date : 12/82

Storage Pool Size (FA) - Current: 288 Expanded: 1080 Date: 1979

Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
10/84	51	R, A(1998)
10/85	61	R, A(1999)
10/86	54	R, A(2000)
10/87	70	R, A(2001)
10/88	62	R, A(2002)
10/89	62	R, A(2003)
10/90	62	R, A(2004)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : WPPSS / WPPSS - 2 / BWR
MW_t/MW_e (net) : 3323/1103
Commercial Operation Date : 9/80
Storage Pool Size (FA) - Current: 1020 Expanded: 2658 Date: 1978
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/82	186	R, A(1994)
8/83	165	R, A(1995)
8/84	156	R, A(1996)
8/85	129	R, A(1997)
8/86	158	R, A(1998)
8/87	147	R, A(1999)
8/88	147	R, A(2000)
8/89	147	R, A(2001)
8/90	147	R, A(2002)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : WPPSS / WPPSS - 3 / PWR
MW_t/MW_e (net) : 3817/1237
Commercial Operation Date : 1/84
Storage Pool Size (FA) - Current: 323 Expanded: 1120 Date: 1979
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
8/84	39	R, A(1996)
1/86	85	R, A(1997)
1/87	53	R, A(1998)
1/88	38	R, A(1999)
1/89	81	R, A(2000)
1/90	73	R, A(2001)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : WPPSS / WPPSS - 4 / PWR
MW_t/MW_e (net) : 3600/1218
Commercial Operation Date : 6/84
Storage Pool Size (FA) - Current: 288 Expanded: 1080 Date: 1979
Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
3/86	90	R, A(1999)
3/87	63	R, A(2000)
3/88	69	R, A(2001)
3/89	42	R, A(2002)
3/90	61	R, A(2003)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : WPPSS / WPPSS - 5 / PWR

MW_t/MW_e (net) : 3817/1237

Commercial Operation Date : 7/85

Storage Pool Size (FA) - Current: 323 Expanded: 1120 Date: 1979

Storage Pool Inventory (FA): 0

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
11/86	62	R, A(1998)
11/87	76	R, A(1999)
11/88	69	R, A(2000)
11/89	73	R, A(2001)
11/90	69	R, A(2002)

Comments: None

US LWR SPENT FUEL
DISCHARGE AND STORAGE ANALYSIS

fuel-trac®
September, 1978

Utility/Reactor/Type : Yankee Atomic Electric Co. / Yankee Rowe / PWR
MW_t/MW_e (net) : 600/172
Commercial Operation Date : 7/61
Storage Pool Size (FA) - Current: 391 Expanded: N/A Date: N/A
Storage Pool Inventory (FA): 149

Fuel Discharged and Storage Location

Discharge Date <u>Month/Year</u>	Assemblies Discharged <u>Number</u>	Assembly Location <u> </u>
5/62	74	NFS
9/63	39	NFS
8/64	38	NFS
8/65	38	NFS
10/66	36	NFS
3/68	36	NFS
8/69	36	NFS
10/70	36	NFS
2/72	36	R, A(1988)
5/74	36	R, A(1989)
10/75	40	R, A(1990)
6/77	36	R, A(1992)
11/78	40	R, A(1993)
2/80	36	R, A(1994)
5/81	40	R, A(1995)
8/82	36	R, A(1997)
11/83	40	R, A(1998)
2/85	36	R, A(1999)
5/86	40	R, A(2000)
8/87	36	R, A(2002)
11/88	40	R, A(2003)
2/90	36	R, A(2004)

Comments: The storage pool capacity was previously expanded from 176 fuel assemblies in 1977.