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**PROGRAM**

**SUMMARY**

**REPORT**

**U.S. NUCLEAR REGULATORY COMMISSION**

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**NUCLEAR  
REGULATORY  
COMMISSION**

**PROGRAM  
SUMMARY  
REPORT**

**PREPARED BY :**

**OFFICE OF MANAGEMENT AND PROGRAM ANALYSIS**

## DEFINITIONS

ACRS	Advisory Committee on Reactor Safeguards
ANSI	American National Standards Institute
ASLB	Atomic Safety & Licensing Board
ASME	American Society of Mechanical Engineers
BOP	Balance of Plant
BWR	Boiling Water Reactor
B&W	Babcock & Wilcox
CE	Combustion Engineering
CP	Construction Permit
DES	Draft Environmental Statement
ECCS	Emergency Core Cooling System
ER	Environmental Report
ESR	Early Site Review
FES	Final Environmental Statement
FSAR	Final Safety Analysis Report
FTL	Full Term License
GE	General Electric
HTGR	High Temperature Gas Reactor
LESR	Limited Early Site Review
LMFBR	Liquid Metal Fast Breeder Reactor
LWA	Limited Work Authorization
LWR	Light Water Reactor
MWe	Megawatts Electric
MWt	Megawatts Thermal
NSSS	Nuclear Steam Supply System
OL	Operating License
PCP	Post Construction Permit (OL due to be tendered)
PDC	Pre-Docketed Construction Permit (CP due to be tendered)
PDD	Prospective Decision Date
PDS	Predocketed Special Project (SP due to be tendered)
PSAR	Preliminary Safety Analysis Report
PWR	Pressurized Water Reactor
SER	Safety Evaluation Report
SE Supp	Safety Evaluation Supplement
SP	Special Project
WEST	Westinghouse

# FOREWORD

127th EDITION

THIS REPORT PROVIDES SUMMARY INFORMATION ON ALL PHASES OF NUCLEAR REGULATION, AND IS INTENDED AS AN INFORMATION AND DECISION-MAKING TOOL FOR MID AND UPPER LEVEL MANAGEMENT OF THE NUCLEAR REGULATORY COMMISSION. THE REPORT IS DIVIDED FUNCTIONALLY INTO EIGHT SECTIONS:

- SECTION 1 - NUCLEAR FACILITIES
- SECTION 2 - REACTOR LICENSING, CONSTRUCTION, AND OPERATION
- SECTION 3 - NUCLEAR MATERIALS
- SECTION 4 - STANDARDS AND REGULATIONS
- SECTION 5 - RESEARCH PROJECTS
- SECTION 6 - FOREIGN REACTORS
- SECTION 7 - EXEMPTIONS
- SECTION 8 - NRC OVERVIEW

## TABLE OF CONTENTS - ALPHABETICAL LISTING

ACRS FORECAST.....	2-9
AGREEMENT 51/ 25 MAP.....	8-12
AMENDMENTS TO NEW NRC REGULATIONS.....	4-8
ANSI STANDARDS PUBLISHED.....	4-5
APPLICATIONS RECEIVED.....	3-2 THRU 3-4
CASELOAD PROJECTION (SEMINANNUAL UPDATE).....	1-3
COMMERCIAL NUCLEAR POWER REACTORS IN THE U.S. (MAP).....	8-2
COMMERCIAL UNITS - HIGHLIGHTS.....	2-12 THRU 2-13
CONSTRUCTION PERMIT FORECAST.....	2-4
CONSTRUCTION PERMIT REVIEW DURATION SUMMARY.....	2-5 THRU 2-6
CONSTRUCTION PERMITS ISSUED.....	1-15 THRU 1-17
ELECTRIC (U.S.) RELIABILITY COUNCILS.....	8-2 THRU 8-4
EXEMPTIONS ALLOWED.....	7-2 THRU 7-3
EXPORT LICENSE APPLICATIONS.....	6-3 THRU 6-4
FACILITY CANCELLATIONS.....	1-9
FINAL ENVIRONMENTAL STATEMENT DURATION.....	2-8
FOREIGN REACTORS SUMMARY.....	6-2
LIMITED WORK AUTHORIZATIONS ISSUED.....	1-18
MAJOR CASE FORECAST (IN-HOUSE).....	3-5 THRU 3-7
MAJOR CASE WORK COMPLETIONS.....	3-8
MAJOR NRC LICENSED FUEL CYCLE FACILITIES.....	1-19 THRU 1-20
MATERIALS LICENSING DATA.....	3-10 THRU 3-13
MINOR CASE WORK COMPLETIONS.....	3-9
NEW APPLICATIONS FORECAST.....	2-2 THRU 2-3
NUCLEAR POWER PLANT STATUS.....	1-4 THRU 1-10
NUCLEAR POWER PLANTS UNDER CONSTRUCTION.....	2-11
NUCLEAR POWER UNITS GROUPED GEOGRAPHICALLY BY.....	
REGIONAL ELEC. RELIABILITY COUNCILS.....	8-2 THRU 8-4
NUCLEAR REACTORS BUILT - PROFILE.....	1-2
NUCLEAR STEAM SUPPLY SYSTEM CONTRACTS AWARDED.....	1-21
NUREG REPORTS.....	4-6 THRU 4-7
OPERATING LICENSE FORECAST.....	2-10
OPERATING LICENSES ISSUED.....	1-13 THRU 1-14
POLICY STATEMENTS - NRC.....	4-10 THRU 4-11
REACTORS BY UTILITY OWNERS - INDEX.....	8-9 THRU 8-13
REACTOR SITES INDEX.....	8-6 THRU 8-8
REACTORS BY STATE.....	8-5
REGIONAL NRC OFFICES.....	8-2 THRU 8-4
REGIONAL STATUS OF NUCLEAR POWER REACTORS.....	8-3
REGULATORY GUIDES PUBLISHED.....	4-3 THRU 4-4
RESEARCH (SELECTED) PROJECTS.....	5-2 THRU 5-8
SAFETY EVALUATION SUPPLEMENT DURATION.....	2-7
SITE REVIEWS FORECAST.....	2-3
SPECIAL PROJECTS FORECAST.....	2-3
STANDARDIZATION APPLICATIONS SUMMARY.....	1-11 THRU 1-12
STANDARDIZATION DESIGNS FORECAST.....	2-3
STANDARDS (SELECTED) STATISTICS SUMMARY.....	4-9
TASK WORKLOAD STATUS - PROGRAM OVERVIEW.....	4-2

# HIGHLIGHTS

## STATUS OF NUCLEAR POWER PLANTS (PG 1-4)

67 UNITS HAVE BEEN LICENSED TO OPERATE  
1 UNIT LICENSED FOR LOW POWER TESTING  
87 UNITS HAVE CONSTRUCTION PERMITS  
11 UNITS ARE UNDER CONSTRUCTION PERMIT REVIEW  
166 TOTAL UNITS

## NEW APPLICATIONS FORECAST (PG 2-2/3)

AS OF APRIL 4, 1980  
2 NEW APPLICATIONS WERE TENDERED IN MARCH  
6 NEW APPLICATIONS HAVE BEEN TENDERED TO DATE IN FY 80  
21 NEW APPLICATIONS ARE PROJECTED TO BE TENDERED DURING FY 1980 & 81

## CONSTRUCTION PERMIT FORECAST (PG 2-4)

NO CONSTRUCTION PERMIT REVIEWS WERE COMPLETED IN MARCH  
NO CP REVIEW IS ESTIMATED FOR COMPLETION THRU FY 1981

## DURATION SUMMARY (PG 2-5 THRU 2-8)

AS OF APRIL 4, 1980  
NO CONSTRUCTION PERMIT APPLICATIONS WERE DOCKETED.  
  
NO SAFETY EVALUATION SUPPLEMENTS ARE PROJECTED TO BE ISSUED IN FY 80  
NO FINAL ENVIRONMENTAL STATEMENTS ARE PROJECTED TO BE ISSUED IN FY 80

## OPERATING LICENSE FORECAST (PG 2-10)

NO OPERATING LICENSE WAS ISSUED IN MARCH  
3 OPERATING LICENSES ARE EXPECTED TO BE ISSUED DURING FY 1980  
6 OPERATING LICENSES ARE EXPECTED TO BE ISSUED IN FY 1981  
  
DURING FEBRUARY, 155,229 MWT (DOES NOT INCLUDE INDIAN POINT #1, HUMBOLDT BAY AND THREE MILE ISLAND #2) WAS THE TOTAL THERMAL POWER LICENSED WHICH WAS CAPABLE OF PRODUCING APPROX. 50,000 MWE OF ELECTRICITY.

## NUCLEAR POWER PLANTS UNDER CONSTRUCTION (PG 2-11)

72 PLANTS ARE ACTIVELY UNDER CONSTRUCTION

# HIGHLIGHTS

## MONTHLY HIGHLIGHTS - I & E (PG 2-12/13)

66 UNITS WERE IN COMMERCIAL OPERATION IN FEBRUARY 1980  
1 UNIT WAS NOT IN COMMERCIAL OPERATION  
67 UNITS LICENSED TO OPERATE (EXCLUDES INDIAN POINT 1, HUMBOLDT BAY AND  
THREE MILE ISLAND 2 WHICH HAVE OPERATING LICENSES BUT ARE  
SHUTDOWN INDEFINITELY)

38 UNITS EXPERIENCED SHUTDOWNS GREATER THAN 72 HOURS IN FEBRUARY 1980

7 UNITS HAVE BEEN DERATED

## NEW APPLICATIONS RECEIVED - NMSS (PG 3-2/4)

AS OF MARCH 7, 1980, 5 APPLICATIONS WERE RECEIVED IN FY 80

## DIVISION OF FUEL CYCLE & MATERIAL SAFETY (PG 3-8/9)

10 MAJOR CASES HAVE BEEN COMPLETED AS OF MARCH 7, 1980 IN FY 80  
262 MINOR CASES HAVE BEEN COMPLETED THROUGH JULY 31, 1979

## MATERIALS LICENSING DATA - NMSS (PG 3-10/11)

### DURING MARCH

1057 - END OF MONTH INVENTORY (PENDING LETTERS NOT INCLUDED)  
279 - APPLICATIONS GREATER THAN 90 DAYS  
626 - APPLICATIONS RECEIVED  
350 - LICENSING ACTIONS COMPLETED (APPLICATIONS LICENSED)  
997 - BEGINNING OF MONTH INVENTORY  
1059 - END OF MONTH INVENTORY

## MONTHLY HIGHLIGHTS - STANDARDS DEVELOPMENT (PG 4-3 THRU 4-11)

### DURING MARCH

5 PROPOSED RULES WERE ISSUED  
2 EFFECTIVE RULES WERE PUBLISHED  
NO ACTIVE GUIDES WERE PUBLISHED  
NO ANSI STANDARDS WERE PUBLISHED  
1 NUREG REPORT WAS PUBLISHED  
NO POLICY STATEMENTS WERE ISSUED

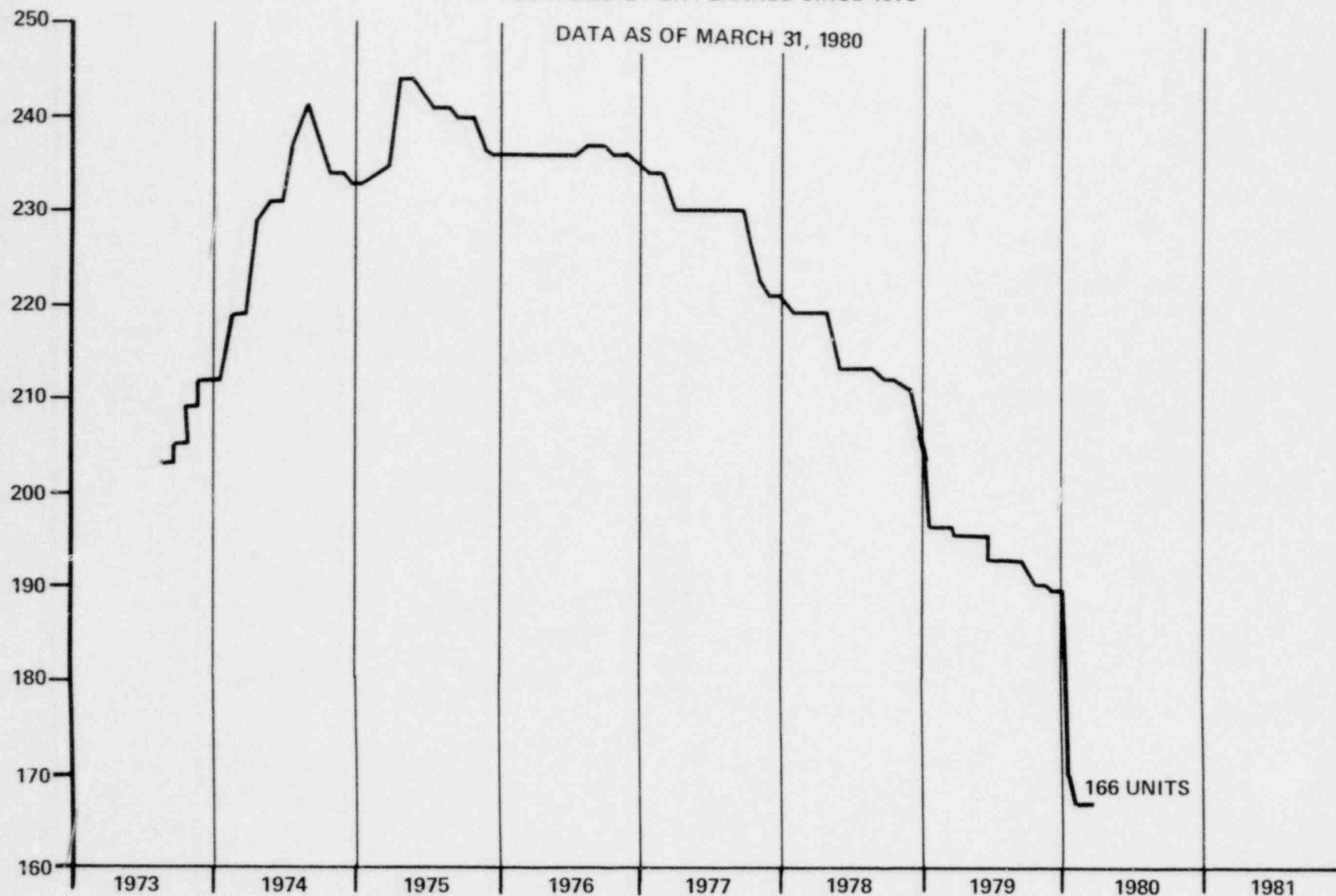
THE FOLLOWING ADDITIONS AND DELETIONS WERE MADE TO THIS MONTH'S ISSUE



**SECTION I -**

**NUCLEAR FACILITIES**

PROFILE OF NUCLEAR REACTORS BUILT,  
BEING BUILT OR PLANNED SINCE 1973



ANNOUNCED OR ORDERED UNITS FOR WHICH APPLICATIONS WERE NOT UNDER REVIEW BY THE NRC WERE NOT COUNTED IN THE STATISTICS PRIOR TO SEPTEMBER 1973 OR AFTER DECEMBER 1979.

IN JANUARY, IN ADDITION TO FOUR CANCELLATIONS, THE FOLLOWING WERE DROPPED FROM THE STATISTICS: 3 NON-OPERATING PLANTS, 9 PLANTS INDEFINITELY DEFERRED, 1 PLANT DENIED STATE CERTIFICATION, AND 6 ORDERED OR ANNOUNCED PLANTS.

# CASELOAD PROJECTIONS

NEXT UPDATE: OCTOBER 1980

\*DATA AS OF: FEBRUARY 1980

FY 1981	FY 1982	FY 1983	FY 1984	FY 1985	FY 1986
---------	---------	---------	---------	---------	---------

<<<< REACTORS >>>>

NEW CP APPLICATIONS	0	1	0	0	0	0
NEW OL APPLICATIONS	3(8)	6(13)	2(3)	2(3)	2(3)	5(11)
LICENSED	81	93	102	113	124	135**
UNDER CONSTRUCTION	85	73	64	53	44	33

<<<< FUEL CYCLE FACILITIES >>>>

NEW MILL APPLICATIONS	4	2	1	0	0	0
NEW FUEL FAB/UF6 APPLICATIONS	0	0	0	0	0	0
NEW SPENT FUEL APPLICATIONS	2	1	0	1	0	0
NEW HML APPLICATIONS	0	0	0	0	0	0
NEW LLW APPLICATIONS	2	3	1	0	0	0
LICENSED	48	49	53	57	60	61

<<<< OTHER >>>>

RADIOISOTOPES LICENSES	9200	9450	9700	9950	10,200	10,500
EXPORT ISSUED (MAJOR)	147	157	157	157	157	
IMPORT ISSUED (MAJOR)	20	20	20	20	20	

NOTE: THE FY 1982 PROJECTIONS FOR REACTORS AND FUEL CYCLE FACILITIES ARE BASED ON WRITTEN SURVEYS CONDUCTED BY THE OFFICES OF NRR AND NISS. THE PROJECTIONS FOR OPERATING REACTORS ARE BASED ON THE METHODOLOGY DESCRIBED IN APPENDIX A OF THE SOURCE DOCUMENT. EXCEPT AS OTHERWISE INDICATED, THE PROJECTIONS FOR 1983-1986 ARE BASED ON BEST ESTIMATES AND DO NOT REPRESENT COMMITMENTS OR ORDERS BY A SPECIFIC APPLICANT TO UNDERTAKE A GIVEN LICENSE ACTIVITY.

\*\*124 GWE

## STATUS OF NUCLEAR POWER PLANTS

BWR	PWR	OTHERS	TOTAL
25	41	1	<b>67</b>
	1		<b>1</b>
28	59		<b>87</b>
5	6		<b>11</b>
58	107	1	<b>166</b>
		THTGR	

### STATUS OF NUCLEAR POWER REACTORS UNDER NRC PURVIEW - MAR. 31, 1980 SOURCE: OFFICE OF MANAGEMENT & PROGRAM ANALYSIS

Number Of Units	Capacity* (MWe)
**67 LICENSED TO OPERATE . . . . .	49,000
(Excludes 3 which have operating licenses but are shut down indefinitely - Three Mile Island 2, Humboldt Bay, and Indian Point 1)	
1 LICENSED FOR LOW-POWER TESTING . . . . .	1,000
87 CONSTRUCTION PERMIT GRANTED . . . . .	96,000
36 Under Operating License Review . . . . . 39,000	
51 Operating License Not Yet Applied For . . . . . 57,000	
(Excludes 3 which have been denied certification by the N.Y. State Siting Board - Sterling 1 and Jamesport 1 & 2)	
11 UNDER CONSTRUCTION PERMIT REVIEW . . . . .	14,000
(Excludes 3 which are indefinitely postponed - Montague 1 & 2, and Clinch River; and 2 which have been denied certification by the N.Y. State Siting Board - New Haven 1 & 2)	
166 TOTAL . . . . .	159,000***

\*Net Maximum Dependable Capacity for operating units for which it is established; net Design Electrical Rating for all other units.

\*\*The 67 units have accumulated 458 reactor years of operation. An additional 56 reactor years of operation have been accumulated by permanently or indefinitely shut down units.

\*\*\*Numbers do not add exactly due to rounding.

NOTE: Only units docketed by NRC are included. Hence, two status categories ("Ordered" and "Publicly Announced") included in similar charts issued through December 1979 are not used.

### ACTIVE AND PENDING APPLICATIONS FOR CENTRAL STATION NUCLEAR POWER PLANTS AND SPECIAL PROJECTS MARCH 31, 1980

	NO. OF APPLICATIONS	NO. OF UNITS
A. OPERATING LICENSES - LICENSED FOR LOW POWER TESTING		67 1
B. UNDER OPERATING LICENSE REVIEW	23	36
C. UNDER CONSTRUCTION BUT OPERATING LICENSE APPLICATIONS NOT ACCEPTED	26	51
D. UNDER CONSTRUCTION PERMIT REVIEW	8	11
E. SPECIAL PROJECTS	25	--
F. PRELIMINARY DESIGN APPROVALS ISSUED	--	--

NOTE: LWFs HAVE BEEN ISSUED FOR 2 UNITS CURRENTLY UNDER REVIEW FOR CONSTRUCTION PERMITS.

1/2 BASED UPON FORMAL UTILITY ANNOUNCEMENTS.

# LICENSED TO OPERATE

## A. LICENSED TO OPERATE

	DATE OF ISSUANCE OF FULL POWER LICENSE	
1.	06/02/60	POL
2.	10/14/60	FTL
3.	07/29/60	POL
4.	06/23/61	FTL
5.	08/30/62	POL
6.	05/01/64	FTL
7.	03/27/67	POL*
8.	06/30/67	POL
9.	12/27/74	FTL
10.	07/03/67	POL*
11.	04/09/69	POL*
12.	08/22/69	POL
13.	12/26/74	FTL
14.	09/19/69	POL*
15.	12/22/69	POL*
16.	09/23/70	FTL
17.	01/19/71	POL*
18.	10/05/70	FTL
19.	10/26/70	POL*
20.	03/02/71	FTL
21.	12/14/72	FTL
22.	10/16/72	POL*
23.	12/14/72	FTL
24.	05/25/72	FTL
25.	07/19/72	FTL
26.	09/15/72	FTL
27.	02/28/73	FTL
28.	01/29/73	FTL
29.	02/06/73	FTL
30.	03/08/73	FTL
31.	04/10/73	FTL

## A. LICENSED TO OPERATE

	DATE OF ISSUANCE OF FULL POWER LICENSE
27.	06/29/73 FTL
28.	12/20/73 FTL
29.	08/09/73 FTL
30.	09/28/73 FTL
31.	10/06/73 FTL
32.	10/19/73 FTL
33.	10/25/73 FTL
34.	11/14/73 FTL
35.	04/05/74 FTL
36.	12/21/73 FTL
37.	12/21/73 FTL
38.	01/18/74 FTL
39.	02/22/74 FTL
40.	04/19/74 FTL
41.	05/21/74 FTL
42.	06/28/74 FTL
43.	07/02/74 FTL
44.	07/19/74 FTL
45.	07/31/74 FTL
46.	08/06/74 FTL
47.	08/16/74 FTL
48.	10/17/74 FTL
49.	10/25/74 FTL
50.	10/29/74 FTL
51.	12/27/74 FTL
52.	08/01/75 FTL

# LICENSED TO OPERATE

16

## A. LICENSED TO OPERATE

	DATE OF ISSUANCE OF FULL POWER LICENSE
53. PORTLAND GENERAL ELECTRIC CO. TROJAN (PWR)	11/21/75 FTL
54. POWER AUTH. OF THE STATE OF NY INDIAN POINT 3 (PWR)	04/05/76 FTL
55. DUQUESNE LIGHT CO. BEAVER VALLEY 1 (PWR)	01/30/76 FTL
56. FLORIDA POWER & LIGHT CO. ST. LUCIE 1 (PWR)	03/01/76 FTL
57. TENNESSEE VALLEY AUTHORITY BROWNS FERRY 3 (BWR)	07/02/76 FTL
58. BALTIMORE GAS & ELECTRIC CO. CALVERT CLIFFS 2 (PWR)	11/30/76 FTL
59. PUBLIC SERVICE ELECTRIC & GAS CO. SALEM 1 (PWR)	12/01/76 FTL
60. CAROLINA POWER & LIGHT CO. BRUNSWICK 1 (BWR)	11/12/76 FTL
61. FLORIDA POWER CORP. CRYSTAL RIVER 3 (PWR)	01/31/77 FTL
62. TOLEDO EDISON CO. DAVIS-BESSE 1 (PWR)	04/22/77 FTL
63. ALABAMA POWER CO. FARLEY 1 (PWR)	06/25/77 FTL
64. VIRGINIA ELECTRIC & POWER CO. NORTH ANNA 1 (PWR)	11/26/77 FTL
65. INDIANA MICHIGAN ELECTRIC CO. COOK 2 (PWR)	12/23/77 FTL
66. GEORGIA POWER CO. HATCH 2 (BWR)	06/13/78 FTL
67. ARKANSAS POWER & LIGHT CO. ARKANSAS 2 (PWR)	09/01/78 FTL
1. CONSOLIDATED EDISON CO. INDIAN POINT 1 (PWR)**	03/26/62 POL*
2. PACIFIC GAS & ELECTRIC CO. HUMBOLDT BAY (BWR)**	08/28/62 POL 01/21/69 FTL
3. METROPOLITAN EDISON CO. THREE MILE ISLAND 2 (PWR)**	02/08/78 FTL

## LICENSED FOR LOW POWER TESTING

## LICENSE DATE

1. TENNESSEE VALLEY AUTHORITY SEQUOYAH 1	02/29/80
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\*HAVE APPLIED FOR A FULL-TERM LICENSE

\*\*SHUT DOWN INDEFINITELY

POL - PROVISIONAL OPERATING LICENSE

FTL - FULL-TERM LICENSE

FLO - FUEL LOADING ONLY

# CONSTRUCTION PERMITS GRANTED

## B. UNDER OPERATING LICENSE REVIEW

	DOCKET DATE OF APPLICATION
1. PUBLIC SERVICE ELECTRIC & GAS CO. SALEM 2 (PWR)	08/25/71
2. VIRGINIA ELECTRIC & POWER CO. NORTH ANNA 2 (PWR)	05/03/73
3. ALABAMA POWER CO. FARLEY 2 (PWR)	08/30/73
4. PACIFIC GAS & ELECTRIC CO. DIABLO CANYON 1 & 2 (PWR)	10/02/73
5. TENNESSEE VALLEY AUTHORITY SEQUOYAH 2 (PWR)	01/31/74
6. DUKE POWER CO. MCGUIRE 1 & 2 (PWR)	05/31/74
7. DETROIT EDISON CO. FERMI 2 (BWR)	04/04/75
8. CINCINNATI GAS & ELECTRIC CO. ZIMMER 1 (BWR)	09/10/75(FSAR & ENV.)
9. LONG ISLAND LIGHTING CO. SHOREHAM (BWR)	01/26/76(FSAR & ENV.)
10. TENNESSEE VALLEY AUTHORITY WATTS BAR 1 & 2 (PWR)	10/04/76(FSAR)
11. SOUTH CAROLINA ELECTRIC & GAS CO. SUMMER 1 (PWR)	02/24/77(FSAR & ENV.)
12. SOUTHERN CALIFORNIA EDISON CO. SAN ONOFRE 2 & 3 (PWR)	03/22/77(FSAR & ENV.)
13. WASHINGTON PUBLIC POWER SUPPLY SYS. WPPSS 2 (BWR)	04/20/77(ENV.) 06/22/78(FSAR)
14. COMMONWEALTH EDISON CO. LASALLE 1 & 2 (BWR)	05/12/77(FSAR & ENV.)
15. CONSUMERS POWER CO. MIDLAND 1 & 2 (PWR)	11/18/77(FSAR) 04/14/78(ENV.)
16. TEXAS UTILITIES GENERATING CO. COMANCHE PEAK 1 & 2	04/25/78(FSAR) 01/19/79(ENV.)
17. TENNESSEE VALLEY AUTHORITY BELLEFONTE 1 & 2 (BWR)	06/12/78(FSAR & ENV.)
18. HOUSTON POWER & LIGHT CO. SOUTH TEXAS 1 & 2 (PWR)	07/17/78(FSAR & ENV.)
19. PENNSYLVANIA POWER & LIGHT CO. SUSQUEHANNA 1 & 2 (BWR)	06/10/78(ENV.) 07/31/78(FSAR)
20. MISSISSIPPI POWER & LIGHT CO. GRAND GULF 1 & 2 (BWR)	06/30/78(FSAR & ENV.)
21. COMMONWEALTH EDISON CO. BYRON 1 & 2 (PWR)	12/01/78(FSAR & ENV.)
22. COMMONWEALTH EDISON CO. BRAIDWOOD 1 & 2 (PWR)	12/01/78(FSAR & ENV.)
23. LOUISIANA POWER & LIGHT CO. WATERFORD 3 (PWR)	12/18/78(FSAR & ENV.)

(36 UNITS)

## CONSTRUCTION PERMITS GRANTED

### C. UNDER CONSTRUCTION BUT OPERATING LICENSE APPLICATIONS NOT ACCEPTED

	CP ISSUANCE
1. JERSEY CENTRAL POWER & LIGHT CO. FORKED RIVER (PWR)	07/10/73
2. NORTHERN INDIANA PUBLIC SERV. CO. BAILLY (BWR)	05/01/74
3. DUCHESSNE LIGHT CO. BEAVER VALLEY 2 (PWR)	05/03/74
4. PHILADELPHIA ELECTRIC CO. LIMERICK 1 & 2 (BWR)	06/19/74
5. NIAGARA MOHAWK POWER CORP. NINE MILE POINT 2 (BWR)	06/24/74
6. GEORGIA POWER CO. VOGTLE 1 & 2 (PWR)	06/28/74
7. VIRGINIA ELECTRIC & POWER CO. NORTH ANNA 3 & 4 (PWR)	07/26/74
8. NORTHEAST NUCLEAR ENERGY CO. HILLSTONE 3 (PWR)	08/09/74
9. PUBLIC SERVICE ELEC. & GAS CO. HOPE CREEK 1 & 2 (BWR)	11/01/74
10. DUKE POWER CO.* CATANDA 1 & 2 (PWR)	08/07/75
11. WASHINGTON PUBLIC POWER SUPPLY SYS. WPPSS 1 (PWR)	12/23/75
12. ILLINOIS POWER CO. CLINTON 1 & 2 (BWR)	02/24/76
13. UNION ELECTRIC CO. CALLAWAY 1 & 2 (PWR) *	04/16/76
14. ARIZONA PUBLIC SERVICE CO. PALO VERDE 1 - 3 (PWR)	05/24/76
15. PUBLIC SERVICE CO. OF N.H. SEABROOK 1 & 2 (PWR)	07/07/76

### C. UNDER CONSTRUCTION BUT OPERATING LICENSE APPLICATIONS NOT ACCEPTED

	CP ISSUANCE
16. GULF STATES UTILITIES CO. RIVER BEND 1 & 2 (BWR)	07/25/77
17. FLORIDA POWER & LIGHT CO. ST. LUCIE 2 (PWR)	05/02/77
18. CLEVELAND ELECTRIC ILLUMINATING CO. PERRY 1 & 2 (BWR)	05/03/77
19. TENNESSEE VALLEY AUTHORITY HARTSVILLE 1 - 4 (BWR)	05/09/77
20. KANSAS GAS & ELECTRIC CO. WOLF CREEK (PWR)	05/17/77
21. DUKE POWER CO. CHEROKEE 1 - 3 (PWR)	12/30/77
22. TENNESSEE VALLEY AUTHORITY PHIPPS BEND 1 & 2 (BWR)	01/16/78
23. CAROLINA POWER & LIGHT CO. HARRIS 1 - 4 (PWR)	01/27/78
24. PUBLIC SERVICE OF INDIANA* MARBLE HILL 1 & 2 (PWR)	04/04/78
25. WASHINGTON PUBLIC POWER SUPPLY SYS. WPPSS 3 & 5 (PWR)	04/11/78
26. TENNESSEE VALLEY AUTHORITY YELLOW CREEK 1 & 2 (PWR)	11/29/78
NA WASHINGTON PUBLIC POWER SUPPLY SYS. WPSS 4 (PWR)	02/21/78
(51 UNITS)	
1. ROCHESTER GAS & ELECTRIC CORP. STERLING 1 (PWR)**	09/01/77
2. LONG ISLAND LIGHTING CO. JAMESPORT 1 & 2 (PWR)	01/04/79

\* OL APPLICATION TENDERED

\*\*DENIED CERTIFICATION BY N. Y. STATE SITING BOARD

NA - PART OF APPLICATION FOR UNIT 1

# UNDER CONSTRUCTION PERMIT REVIEW

D. UNDER CONSTRUCTION PERMIT REVIEW	DOCKET DATE OF APPLICATION
1. HOUSTON LIGHTING & POWER CO. ALLENS CREEK 1 (BWR)	12/07/73(SAF & ENV)
2. BOSTON EDISON CO. PILGRIM 2 (PWR)	12/21/73(SAF & ENV)
3. DUKE POWER CO. PERKINS 1-3 (PWR)	05/24/74(SAFETY) 07/08/74(ENV)
4. PORTLAND GENERAL ELECTRIC CO. PEBBLE SPRINGS 1 & 2 (PWR)	08/06/74(ENV) 10/18/74(SAFETY)
5. PUGET SOUND POWER & LIGHT CO. SKAGIT 1 & 2 (BWR)	09/30/74(ENV) 01/15/74(SAFETY)
6. PUBLIC SERVICE CO. OF OKLAHOMA BLACK FOX 1 & 2 (BWR)*	12/23/75(SAF & ENV)
1. NORTHEAST NUCLEAR ENERGY CO. MONTAGUE 1 & 2 (BWR)1/	07/12/74(SAF & ENV)
2. PROJECT MANAGEMENT CORP.1/ CLINCH RIVER (LMFBR)	04/11/75(ENV) 06/13/75(SAFETY)
3. NEW YORK STATE ELECTRIC & GAS NEW HAVEN 1 & 2 (PWR)3/	12/29/78(SAFETY) 01/24/79(ENV)

(14 UNITS)  
11 UNITS UNDER ACTIVE REVIEW  
3 UNITS POSTPONED INDEFINITELY OR DEFERRED

\*LWA ISSUED.  
1/POSTPONED INDEFINITELY OR DEFERRED.  
2/AMENDMENT TO CHANGE SITE.  
3/DENIED CERTIFICATION BY N. Y. STATE SITING BOARD

ONLY UNITS DOCKETED BY NRC ARE INCLUDED. HENCE, THE CAT. 'S "ORDERED" AND "PUBLICLY ANNOUNCED"  
HAVE BEEN DROPPED.



## SPECIAL PROJECTS

### E. SPECIAL PROJECTS-PENDING\*

	DATE OF APPLICATION
1. CESSAR SYSTEM 80	10/27/78 (TENDERED)
2. FLOATING NUCLEAR PLANTS 1-8	07/05/73(DOCKETED)
3. GAS TURBINE HTGR	07/31/75(DOCKETED)
4. GASSAR	02/05/75(DOCKETED)
5. GIBBSAR/RESAR-414	10/15/76(DOCKETED 05/10/77)
6. GAISSAR	02/24/78
7. FT. CALHOUN (LESR)	01/26/76
8. S8G	05/31/77(DOCKETED 06/08/77)
9. SWESSAR/BSAR-205	12/22/75(DOCKETED)
10. WOOD SITE STUDY	08/21/75
11. BOPSSAR/BSAR-205	10/31/77(DOCKETED)
12. BLUE HILLS (SITE STUDY)	10/31/77
13. ESSAR/CESSAR	11/23/77(DOCKETED 02/02/78)
14. ESSAR/RESAR-414	11/23/77(DOCKETED 03/13/78)
15. ESSAR/BSAR-205	11/23/77(DOCKETED 05/19/78)
16. NORTH COAST (ESR)	09/00/74
17. CARROLL COUNTY (ESR)	12/00/78
18. FULTON (LESR)	01/00/79
19. DOUGLAS POINT (LESR)	08/00/73
20. GESSAR-230 NSSS EXTENSION	03/21/78
21. GESSAR-251 EXTENSION	03/21/78
22. SWESSAR/CESSAR EXTENSION	03/21/78
23. SWESSAR/RESAR-35 EXTENSION	03/21/78
24. BOPSSAR/RESAR-41 EXTENSION	03/21/78
25. ESAR-205 EXTENSION	03/21/78

### F. PRELIMINARY DESIGN APPROVALS COMPLETED

APPLICANT	PDA NO.	DOCKET DATE	DATE ISSUED
1. GENERAL ELECTRIC CO. GESSAR-238 NI	PDA- 1	07/30/73	12/22/75
2. COMUSTION ENG., INC. CESSAR	PDA- 2	12/19/73	12/31/75
3. WESTINGHOUSE ELEC CORP. RESAR-41	PDA- 3	03/11/74	12/31/75
4. STONE AND WEBSTER SWESSAR/RESAR	PDA- 4	06/28/74	05/05/76
5. BRAUN SAR	PDA- 5	12/21/74	05/07/76
6. STONE & WEBSTER SWESSAR/CESSAR	PDA- 6	10/21/74	08/18/76
7. WESTINGHOUSE ELEC CORP. RESAR-35	PDA- 7	07/31/75	12/30/76
8. STONE AND WEBSTER SWESSAR/RESAR 35	PDA- 8	10/03/75	03/31/77
9. GENERAL ELECTRIC CO. GESSAR-251	PDA- 9	02/14/75	03/31/77
10. GENERAL ELECTRIC CO. GESSAR-230 NSSS	PDA-10	09/24/75	03/10/77
11. FLUOR POWER BOPSSAR/RESAR-41	PDA-11	01/27/76	08/17/77
12. BADCOCK & WILCOX BSAR-205	PDA-12	03/01/76	05/31/78
13. WESTINGHOUSE ELEC CORP. RESAR 414	PDA-13	12/30/76	11/04/78

\* ALL SPECIAL PROJECT REVIEW EFFORT EXCEPT CARROLL SITE AND FLOATING NUCLEAR IS SUSPENDED

## G. FACILITY CANCELLATIONS

## PLANTS WITH CONSTRUCTION PERMITS

FACILITY	APPLICANT	TYPE	MWE	DATE
SURRY 3-4	VIRGINIA ELECTRIC AND POWER	PWR	882	FY-77
TYRONE	NORTHERN STATES POWER	PWR	1150	FY-79

## CONSTRUCTION PERMIT REVIEW

FACILITY	APPLICANT	TYPE	MWE	DATE
QUANICASSEE 1 & 2	CONSUMERS POWER	PWR	1150	FY-75
PILGRIM 3	BOSTON EDISON	PWR	1180	FY-75
BARTON 3 & 4	ALABAMA POWER & LIGHT	BWR	1159	FY-76
SUMMIT 2	DELMARVA POWER & LIGHT	HTGR	1200	FY-77
ALLENS CREEK 2	HOUSTON POWER AND LIGHT	BWR	1213	FY-77
BLUE HILLS 1-2	GULF STATES UTILITIES	PWR	918	FY-78
SUMMIT 1	DELMARVA POWER AND LIGHT	HTGR	1200	FY-78
SUNDESERT 1-2	SAN DIEGO GAS AND ELECTRIC	PWR	974	FY-78
DOUGLAS POINT 2	POTOMAC ELECTRIC POWER	BWR	1146	FY-78
BARTON 1 & 2	ALABAMA POWER & LIGHT	BWR	1159	FY-78
FORT CALHOUN 2	OMAHA PUBLIC POWER DISTRICT	PWR	1136	FY-78
HAVEN 2	WISCONSIN ELECTRIC POWER CO.	PWR	900	FY-79
ATLANTIC 1-2	PUBLIC SERVICE ELECTRIC AND GAS	PWR	1150	FY-79
GREENE COUNTY	POWER AUTHORITY OF STATE OF NEW YORK	PWR	1191	FY-79
PALO VERDE 4-5	ARIZONA PUBLIC SERVICE	PWR	1270	FY-79
DOUGLAS POINT 1	POTOMAC ELECTRIC POWER	BWR	1146	FY-79
FULTON 1-2	PHILADELPHIA ELECTRIC	HTGR	1160	FY-79
NORTH COAST 2	PUERTO RICO WATER RESOURCES AUTHORITY	PWR	583	FY-79
ERIE 1 & 2	OHIO EDISON CO	PWR	1260	FY-80
DAVIS BESSE 2 & 3	TOLEDO EDISON CO	PWR	906	FY-80
NEW ENGLAND 1 & 2	NEW ENGLAND POWER	PWR	1194	FY-80
HAVEN 1	WISCONSIN ELECTRIC POWER CO.	PWR	900	FY-80
GREENWOOD 2 & 3	DETROIT EDISON	PWR	1200	FY-80

# SUMMARY OF STANDARDIZATION APPLICATIONS

DATA AS OF MARCH 31, 1980

REFERENCE SYSTEMS

23 APPLICATIONS

PROJECT	APPLICANT	DOCKET DATE	COMMENTS
NUCLEAR STEAM SUPPLY SYSTEM, NUCLEAR ISLANDS & TURBINE ISLANDS			
CESSAR-238 NI	GENERAL ELECTRIC	07/30/73	NUCLEAR ISLAND. PRELIMINARY DESIGN
BRAUN SAR	C. F. BRAUN	12/21/74	TURBINE ISLAND MATCHED TO GESSAR-238 NI.
CESSAR	COMBUSTION ENGINEERING	12/19/73	NSSS.
RESAR-41	WESTINGHOUSE	03/11/74	NSSS.
B-SAR-241	BABCOCK & WILCOX	05/14/74	NSSS (WITHDRAWN).
B-SAR 205	BABCOCK & WILCOX	03/01/76	NSSS (REPLACES B-SAR-241)
GASSAR	GENERAL ATOMIC	02/05/75	NSSS.
GESSAR-251	GENERAL ELECTRIC	02/14/75	NSSS
RESAR-35	WESTINGHOUSE	07/31/75	NSSS.
GESSAR-238 NSSS	GENERAL ELECTRIC	10/16/75	NSSS.
RESAR-414	WESTINGHOUSE	12/30/76	NSSS.
CESSAR	COMBUSTION ENGINEERING		FDA APPLICATION UNDER ACCEPTANCE REVIEW
STANDARD BALANCE-OF-PLANT (BOP)			
ESSAR:	EBASCO		
CESSAR		02/02/78	BOP DESIGN MATCHED TO CESSAR.
RESAR-414		03/13/78	BOP DESIGN MATCHED TO RESAR-414.
B-SAR-205		05/19/78	BOP DESIGN MATCHED TO B-SAR-205.
SWESSAR:	STONE & WEBSTER		
RESAR-41		05/28/74	BOP DESIGN MATCHED TO RESAR-41.
CESSAR		10/21/74	BOP MATCHED TO CESSAR.
RESAR-35		10/02/75	BOP MATCHED TO RESAR-35.
B-SAR-205		12/22/75	BOP MATCHED TO B-SAR-205.
GIBBSSAR/RESAR-414	GIBBS & HILL	05/09/77	
BOP-SSAR:	FLUOR POWER		
RESAR-41		01/27/76	BOP MATCHED TO RESAR-41
B-SAR-205		10/31/77	BOP MATCHED TO B-SAR-205
GAISSAR	GILBERT/COMMONWEALTH	08/21/78	BOP MATCHED CESSAR, RESAR-414, B-SAR-205

# SUMMARY OF STANDARDIZATION APPLICATIONS

UTILITY APPLICATIONS USING REFERENCE SYSTEMS

Continued From Previous Page  
13 APPLICATIONS

PROJECT	APPLICANT	DOCKET DATE	COMMENTS
CHEROKEE 1-3	DUKE POWER	05/24/74	REFERENCES CESSAR.
PERKINS 1-3	DUKE POWER	05/24/74	REFERENCES CESSAR.
SOUTH TEXAS 1 & 2	HOUSTON LIGHT & POWER	07/05/74	REFERENCES RESAR-41.
WPPSS 3 & 5	WASHINGTON PUBLIC POWER SUPPLY SYSTEM	08/02/74	REFERENCES CESSAR.
PALO VERDE 1-3	ARIZONA PUBLIC SERVICE	10/07/74	REFERENCES CESSAR.
HARTSVILLE 1-4	TENNESSEE VALLEY AUTHORITY	11/22/74	REFERENCES GESSAR-238 (NI).
BLACK FOX 1 & 2	PUBLIC SERVICE OF OKLAHOMA	12/23/75	REFERENCES GESSAR-238 (NSSS).
PHIPPS BEND 1 & 2	TENNESSEE VALLEY AUTHORITY	11/07/75	REFERENCES GESSAR-238 (NI).
YELLOW CREEK 1 & 2	TENNESSEE VALLEY AUTHORITY	07/16/76	REFERENCES CESSAR.
ERIE 1 & 2	OHIO EDISON	03/01/77	REFERENCES B-SAR-205.
PALO VERDE 4 & 5	ARIZONA PUBLIC SERVICE	03/31/78	REFERENCES CESSAR
NEW HAVEN 1 & 2	NYSE&G	12/29/78	REFERENCES CESSAR & SWEESAR/CESSAR
*GREENWOOD 2 & 3	DETROIT EDISON	03/01/79*	REFERENCES B-SAR-205
	DUPLICATE PLANTS		8 APPLICATIONS
BYRON 1 & 2	COMMONWEALTH EDISON	09/20/73	TWO UNITS AT EACH OF TWO SITES.
BRAIDWOOD 1 & 2		05/20/73	
SNUPPS			FIVE UNITS AT FOUR SITES.
WOLF CREEK	KANSAS GAS & ELECTRIC AND KANSAS CITY POWER & LIGHT	05/17/75	
CALLAWAY 1 & 2	UNION ELECTRIC	06/21/74	
TYRONE 1	NORTHERN STATES POWER	06/21/74	
STERLING	ROCHESTER GAS & ELECTRIC	06/21/74	
CHEROKEE 1-3	DUKE POWER	05/24/74	THREE UNITS AT EACH OF
PERKINS 1-3		05/24/74	THREE SITES.

DUPLICATE PLANTS ARE PLANTS OF THE SAME DESIGN WITH THE POSSIBILITIES OF MULTIPLE SITES AND MULTIPLE APPLICATIONS

REPLICATION 5 APPLICATIONS

JAMESPORT 1 & 2	LONG ISLAND LIGHTING	09/06/74	REPLICATES MILLSTONE 3.
MARBLE HILL 1 & 2	PUBLIC SERVICE OF INDIANA	09/17/75	REPLICATES BYRON 1 & 2
NEW ENGLAND 1 & 2	NEW ENGLAND POWER & LIGHT	09/09/76	REPLICATES SEABROOK 1 & 2
*HAVEN 1	WISCONSIN ELECTRIC POWER	04-05-78	REPLICATES KOSHYONONG 1 & 2
PALO VERDE 4 & 5	ARIZONA PUBLIC SERVICE	03/31/78	REPLICATES PALO VERDE 1, 2, & 3

REPLICATION IS THE DUPLICATION OF A PLANT WITH A DESIGN PREVIOUSLY APPROVED BY NRC STAFF.

LICENSE TO MANUFACTURE FLOATING NUCLEAR PLANTS 1 APPLICATION

FLOATING NUCLEAR PLANT (FNP) 1-8	OFFSHORE POWER SYSTEM	07/05/73	ENTIRE PLANT DESIGN.
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# OPERATING LICENSES ISSUED

PLANT	FSAR DOCKET DATE	ER DOCKET DATE	INITIAL LICENSE	FULL ★ POWER LICENSE	ELAPSED (1)	ELAPSED ★ (2)	LICENSE NUMBER
					MONTHS TO INITIAL LICENSE	MONTHS TO FULL POWER LICENSE	
1. DRESDEN 1	06-09-58	N/A	09-28-59	04-02-60	15.6	23.7	DPR-2
2. YANKEE-ROWE 1	09-14-59	N/A	07-09-60	07-29-60	9.7	10.4	DFR-3
3. HALLAM *	04-16-61	N/A	01-02-62	08-09-62	8.5	15.7	DPRA-1
4. INDIAN POINT 1 **	01-30-60	01-30-60	03-26-62	03-26-62	25.8	25.8	DPR-5
5. PIQUA *	02-01-61	N/A	08-23-62	05-16-63	18.7	27.5	PDRA-2
6. HUMBOLDT BAY **	09-05-61	N/A	08-28-62	08-28-62	11.7	11.7	DFR-7
7. BIG ROCK POINT 1	12-04-61	N/A	08-30-62	08-30-62	8.8	8.8	DPR-6
8. ELK RIVER *	07-08-62	N/A	11-06-62	11-10-62	27.9	28.0	DPRA-3
9. CVTR *	01-24-62	N/A	11-27-62	11-27-62	10.1	10.1	DPR-8
10. ENRICO FERMI 1 **	07-14-61	N/A	05-10-63	07-11-63	21.8	23.9	DPR-9
11. PATHFINDER *	06-22-62	N/A	03-12-64	03-12-64	20.6	20.6	DPR-11
12. BONUS *	02-01-62	N/A	04-02-64	04-02-64	26.0	26.0	DPRA-4
13. PEACH BOTTOM 1 **	02-25-64	N/A	01-24-66	01-12-67	22.9	34.5	DPR-12
14. SAN ONOFRE 1	11-30-65	N/A	03-27-67	03-27-67	15.9	15.9	DPR-13
15. HADDAM NECK	07-22-66	N/A	06-30-67	06-30-67	11.2	11.2	DPR-61
16. LA CROSSE	08-03-65	N/A	07-03-67	07-03-67	23.0	23.0	DPR-45
17. OYSTER CREEK 1	01-25-67	N/A	04-09-69	08-01-69	26.4	30.2	DPR-16
18. NINE MILE POINT 1	06-01-67	N/A	08-22-69	08-22-69	26.7	26.7	DPR-63
19. GIMNA	01-24-68	N/A	09-19-69	09-19-69	19.8	19.8	DPR-18
20. DRESDEN 2	11-17-67	N/A	12-22-69	12-22-69	25.1	25.1	DPR-19
21. ROBINSON 2	11-26-68	11-26-68	07-31-70	09-23-70	20.1	21.9	DFR-23
22. MONTICELLO	11-08-68	11-08-68	09-08-70	01-19-71	22.0	26.3	DPR-22
23. POINT BEACH 1	03-18-69	11-18-71	10-05-70	10-05-70	18.5	18.5	DPR-24
24. MILLSTONE 1	03-18-68	N/A	10-06-70	10-26-70	30.6	31.2	DPR-21
25. DRESDEN 3	11-17-67	07-24-70	01-12-71	03-02-71	37.8	39.5	DPR-25
26. PALISADES	11-05-68	11-05-68	03-24-71	10-16-72	28.6	47.3	DPR-20
27. QUAD CITIES 1	09-03-68	11-19-70	10-01-71	12-14-72	36.9	51.3	DPR-29
28. INDIAN POINT 2	10-15-68	10-15-71	10-19-71	09-23-73	36.1	59.4	DPR-26
29. POINT BEACH 2	03-18-69	11-11-71	11-16-71	03-08-73	31.9	47.6	EPR-27
30. VERMONT YANKEE 1	01-05-70	12-21-72	03-21-72	02-28-73	26.5	37.7	DRP-28
31. QUAD CITIES 2	09-03-68	11-19-70	03-31-72	12-14-72	42.9	51.3	DPR-30
32. SURRY 1	01-21-71	12-02-70	05-25-72	05-25-72	16.1	16.1	DPR-32
33. PILGRIM 1	01-05-70	11-01-70	06-08-72	09-15-72	29.1	32.3	DPR-35
34. TURKEY POINT 3	05-12-69	11-08-71	07-19-72	07-19-72	38.2	38.2	DPR-31
35. MAINE YANKEE	08-31-70	11-04-70	09-15-72	06-29-73	24.4	33.9	DPR-36
36. SURRY 2	01-20-70	12-02-70	01-29-73	01-29-73	36.3	36.3	DPR-37
37. OCONEE 1	06-02-69	10-18-71	02-06-73	02-06-73	44.1	44.1	DPR-38
38. ZION 1	11-25-70	N/A	04-06-73	10-19-73	28.3	34.8	DPR-39
39. TURKEY POINT 4	05-12-69	11-08-71	04-10-73	04-10-73	46.9	46.9	DPR-41
40. FORT CALHOUN 1	11-28-69	11-04-71	05-23-73	08-09-73	41.8	44.3	DPR-40
41. BROWNS FERRY 1	09-25-70	N/A	06-26-73	12-20-73	33.0	38.8	DPR-33
42. PEACH BOTTOM 2	08-31-70	11-08-71	08-08-73	12-14-73	35.2	39.4	DPR-44
43. PRAIRIE ISLAND 1	02-01-71	05-17-71	08-09-73	04-05-74	30.2	38.1	DPR-42
44. OCONEE 2	06-02-69	10-18-71	10-06-73	10-06-73	52.1	52.1	DPR-47
45. ZION 2	11-25-70	N/A	11-14-73	11-14-73	35.6	35.6	DPR-48
46. FORT ST VRAIN	11-07-69	12-28-70	12-21-73	12-21-73	49.4	49.4	DPR-34
47. KEWAUNEE	01-30-71	11-08-71	12-21-73	12-21-73	34.7	34.7	DPR-43
48. COOPER STATION	03-01-71	09-24-71	01-18-74	01-18-74	34.5	34.5	DPR-46
49. DUANE ARNOLD	05-09-72	11-15-71	02-22-74	02-22-74	21.4	21.4	DPR-49

# OPERATING LICENSES ISSUED

PLANT	FSAR DOCKET DATE	ER DOCKET DATE	INITIAL LICENSE	FULL ★ POWER LICENSE	ELAPSED <sup>(1)</sup>	ELAPSED ★ <sup>(2)</sup>	LICENSE NUMBER
					MONTHS TO INITIAL LICENSE	MONTHS TO FULL POWER LICENSE	
50. THREE MILE ISLAND 1	03-02-70	10-01-70	04-19-74	06-24-74	49.5	51.7	DPR-50
51. ARKANSAS 1	04-26-71	11-05-71	05-21-74	05-21-74	36.8	36.8	DPR-51
52. BROWNS FERRY 2	09-25-70	N/A	06-28-74	08-02-74	45.1	46.2	DPR-52
53. PEACH BOTTOM 3	08-31-70	11-08-71	07-02-74	07-02-74	46.0	46.0	DPR-56
54. OCONEE 3	06-02-69	10-18-71	07-19-74	07-19-74	61.5	61.5	DPR-55
55. CALVERT CLIFFS 1	01-04-71	11-08-71	07-31-74	07-31-74	42.9	42.9	DPR-53
56. HATCH 1	03-22-71	02-17-71	08-06-74	10-13-74	40.4	42.7	DPR-57
57. RANCHO SECO 1	04-29-71	11-15-72	08-16-74	08-16-74	39.5	39.5	DPR-54
58. FITZPATRICK	06-04-71	05-22-71	10-17-74	10-17-74	40.4	40.4	DPR-59
59. COOK 1	02-02-71	11-08-71	10-25-74	10-25-74	44.7	44.7	DPR-58
60. PRAIRIE ISLAND 2	02-01-71	05-17-71	10-29-74	10-29-74	44.9	44.9	DPR-60
61. BRUNSWICK 2	10-03-72	11-08-71	12-27-74	12-27-74	26.8	26.8	DPR-62
62. MILLSTONE 2	08-14-72	11-15-71	08-01-75	09-30-75	35.5	37.5	DPR-65
63. TROJAN	02-09-73	05-29-70	11-21-75	11-21-75	33.4	33.4	NPF-1
64. INDIAN POINT 3	12-04-70	11-13-73	12-12-75	04-05-76	60.2	64.0	DPR-64
65. BEAVER VALLEY 1	10-18-72	01-05-72	01-30-76	07-02-76	39.4	44.4	DPR-66
66. ST LUCIE 1	03-05-73	01-06-72	03-01-76	03-01-76	35.8	35.8	DPR-67
67. BROWNS FERRY 3	09-25-70	09-25-70	07-02-76	08-18-76	69.2	70.1	DPR-68
68. CALVERT CLIFFS 2	01-04-71	11-08-71	08-13-76	11-30-76	67.3	70.8	DPR-69
69. SALEM 1	08-25-71	11-08-71	08-13-76	12-01-76	59.6	63.2	DPR-70
70. BRUNSWICK 1	10-03-72	11-08-71	09-08-76	11-12-76	47.1	49.3	DPR-71
71. NORTH ANNA 1	05-02-73	03-15-72	11-26-76	04-01-78	42.8	58.9	NPF-4
72. DAVIS-BESSE 1	03-31-73	01-04-73	04-22-77	04-22-77	48.7	48.7	NPF-3
73. FARLEY 1	08-30-73	08-30-73	06-25-77	06-25-77	45.8	45.8	NPF-2
74. CRYSTAL RIVER 3	02-08-71	01-03-72	12-03-77	01-28-77	81.8	71.6	DPR-72
75. COOK 2	02-01-71	11-08-71	12-23-77	12-23-77	82.7	82.7	DPR-74
76. THREE MILE ISLAND 2 **	04-04-74	04-16-75	02-08-78	02-08-78	46.1	46.1	DPR73
77. HATCH 2	10-31-75	10-31-75	06-13-78	06-13-78	31.4	31.4	NPF-5
78. ARKANSAS 2	04-17-74	04-17-74	07-18-78	12-14-78	51.0	55.9	NPF-6
(3) 79. SEQUOYAH 1	01-31-74	N/A	02-29-80	N/A	72.1	N/A	DPR-77

★ Over 50% of rated power

APRIL 4, 1980

YEAR	ISSUED	AVERAGE IN MONTHS
FY 1959	1	15.6
FY 1960	1	9.7
FY 1961	0	0
FY 1962	5	14.7
FY 1963	3	19.9
FY 1964	2	23.3
FY 1965	0	0
FY 1966	1	22.9
FY 1967	3	16.7
FY 1968	0	0
FY 1969	3	24.3
FY 1970	3	22.4
FY 1971	4	28.8
FY 1972	9	31.3
FY 1973	8	36.9
FY 1974	14	42.1
FY 1975	5	38.5
FY 1976	8	51.5
FY 1977	4	51.8
FY 1978	4	52.8
FY 1979	0	0
FY 1980	0	72.1

LICENSED TO OPERATE 67  
 \*LICENSES TERMINATED 6  
 \*\*SHUTDOWN 5  
 (3) LICENSED FOR LOW POWER TESTING 1

(1) This is determined by counting the number of months between the FSAR Docket Date and the Initial License Date.

(2) This is determined by counting the number of months between the FSAR Docket Date and the Full Power License Date.

(3) Restricted to 5% power.

# CONSTRUCTION PERMITS ISSUED

DOCKET NUMBER	FACILITY NAME	PSAR DOCKET DATE	ER DOCKET DATE	CP ISSUED	ELAPSED MONTHS <sup>(1)</sup>	CONSTRUCTION PERMIT NUMBER
050-00010	(LIC) DRESDEN 1 (0200)	04/01/55C	N/A	05/04/56C	13.1	CPPR-2
050-00003	(LIC) INDIAN POINT 1 (0265)	04/02/55C	N/A	05/04/56C	13.0	CPPR-1
050-00016	(WD) ENRICO FERMI 1 (0061)	01/07/56C	N/A	08/04/56C	6.9	CPPR-4
050-00029	(LIC) YANKEE-ROWE 1 (0175)	07/09/56C	N/A	11/04/57C	15.8	CPPR-5
115-00001	(WD) ELK RIVER (0022)	03/15/59C	N/A	01/09/60C	9.8	CAPR-1
115-00002	(WD) PICUA (0011)	04/13/59C	N/A	01/28/60C	9.5	CAPR-2
050-00144	(WD) CVTR (0017)	07/09/59C	N/A	05/01/63C	9.8	CPPR-7
050-00130	(WD) PATHFINDER (0058)	04/01/59C	N/A	05/12/60C	13.3	CPPR-8
050-00155	(LIC) BIG ROCK POINT 1 (0075)	01/10/60C	N/A	05/31/60C	4.4	CPPR-9
115-00003	(WD) HALLAM (0075)	02/15/59C	N/A	06/28/60C	16.4	CAPR-3
115-00004	(WD) BONUS (0017)	12/15/59C	N/A	07/19/60C	7.1	CAPR-4
050-00133	(LIC) NUMBOLDT BAY (0065)	04/30/59C	N/A	11/09/60C	18.3	CPPR-10
050-00171	(WD) PEACH BOTTOM 1 (0040)	07/25/60C	N/A	02/23/62C	18.9	CFPR-12
050-00409	(FTL) LA CROSSE (0050)	11/05/62C	N/A	03/29/63C	4.8	CAPR-5
050-00206	(FIL) SAN ONOFRE 1 (0430)	02/04/63C	N/A	03/02/64C	12.9	CFPR-13
050-00213	(LIC) HADDAM NECK (0575)	09/09/63C	N/A	05/26/64C	3.5	CFPR-14
050-00219	(FTL) OYSTER CREEK 1 (0640)	03/30/64C	N/A	12/15/64C	8.5	CPPR-15
050-00220	(LIC) NINE MILE POINT 1 (0610)	04/01/64C	N/A	04/12/65C	12.3	CPPR-16
050-00237	(FTL) DRESDEN 2 (0809)	04/15/65C	N/A	01/10/66C	8.8	CPPR-18
050-00244	(FTL) GINNA (0490)	11/01/65C	N/A	04/25/66C	5.8	CPPR-19
050-00245	(FTL) MILLSTONE 1 (0652)	11/15/65C	N/A	05/19/66C	6.1	CPPR-20
050-00247	(LIC) INDIAN POINT 2 (0873)	12/06/65C	N/A	10/14/66C	10.2	CPPR-21
050-00249	(LIC) DRESDEN 3 (0809)	02/10/66C	N/A	10/14/66C	8.1	CPPR-22
050-00254	(LIC) QUAD CITIES 1 & 2 (0800)	05/31/66C	N/A	02/15/67C	8.4	CPPR-23&24
050-00255	(FTL) PALISADES (0700)	06/03/66C	N/A	03/14/67C	9.3	CPPR-25
050-00261	(FTL) ROBINSON 2 (0700)	07/25/66C	N/A	04/13/67C	8.6	CPPR-26
050-00230	(LIC) TURKEY POINT 3 & 4 (0666)	03/28/66C	N/A	04/27/67C	12.9	CPPR-27&28
050-00259	(LIC) DROWNS FERRY 1 & 2 (1067)	07/13/66C	N/A	05/10/67C	9.9	CPPR-29&30
050-00263	(FTL) MONTICELLO (0545)	08/08/66C	N/A	06/19/67C	10.3	CPPR-31
050-00266	(LIC) POINT BEACH 1 (0497)	08/31/66C	N/A	07/19/67C	10.6	CPPR-32
050-00269	(LIC) GOONEE 1, 2 & 3 (0871)	12/01/66C	N/A	11/06/67C	11.1	CPPR-33, 34&35
050-00271	(LIC) VERMONT YANKEE 1 (0514)	12/02/66C	N/A	12/11/67C	12.3	CPPR-36
050-00277	(LIC) PEACH BOTTOM 2 & 3 (1065)	02/13/67C	N/A	01/31/68C	11.6	CPPR-37&38
050-00275	(GL) DIABLO CANYON 1 (1084)	01/16/67C	N/A	04/23/68C	15.1	CPPR-39
050-00209	(LIC) THREE MILE ISLAND 1 (0819)	05/03/67C	N/A	05/18/68C	12.5	CPPR-40
050-00298	(LIC) COOPER STATION (0778)	07/27/67C	N/A	06/04/68C	10.2	CPPR-42
050-00285	(LIC) FORT CALHOUN 1 (0457)	04/18/67C	N/A	06/07/68C	13.6	CPPR-41
050-00280	(LIC) SURRY 1 & 2 (0788)	03/20/67C	N/A	05/25/68C	15.1	CPPR-43&44
050-00282	(LIC) PRAIRIE ISLAND 1 & 2 (0530)	04/07/67C	N/A	06/25/68C	14.6	CPPR-45&46
050-00301	(LIC) POINT BEACH 2 (0497)	08/03/67C	N/A	07/25/68C	11.7	CPPR-47
050-00296	(LIC) BROWNS FERRY 3 (1067)	07/17/67C	N/A	07/31/68C	12.4	CPPR-48
050-00305	(LIC) KEWAUNEE (0541)	08/23/67C	N/A	08/06/68C	11.4	CPPR-50
050-00293	(LIC) PILGRIM 1 (0670)	06/30/67C	N/A	08/26/68C	13.8	CPPR-49
050-00267	(LIC) FORT ST VRAIN (0330)	10/20/66C	N/A	09/17/68C	22.9	CPPR-54
050-00272	(LIC) SALEM 1 & 2 (1090)	12/13/66C	N/A	09/25/68C	21.4	CPPR-52&53
050-00302	(LIC) CRYSTAL RIVER 3 (0825)	08/10/67C	N/A	09/25/68C	13.5	CPPR-51
050-00312	(LIC) RANCHO SECO 1 (0913)	11/20/67C	N/A	10/11/68C	10.7	CPPR-56
050-00309	(LIC) MAINE YANKEE (0790)	09/27/67C	N/A	10/21/68C	12.3	CPPR-55
050-00313	(LIC) ARKANSAS 1 (0850)	11/29/67C	N/A	12/06/68C	12.2	CPPR-57
050-00295	(LIC) ZION 1 & 2 (1050)	07/12/67C	N/A	12/26/68C	17.4	CPPR-58&59
050-00315	(LIC) COOK 1 & 2 (1050)	12/20/67C	N/A	03/25/69C	15.1	CPPR-60&61
050-00317	(LIC) CALVERT CLIFFS 1 & 2 (0845)	01/25/68C	N/A	07/07/69C	17.4	CPPR-63&64
050-00286	(LIC) INDIAN POINT 3 (0965)	04/26/67C	N/A	08/13/69C	27.5	CFPR-62
050-00321	(LIC) HATCH 1 (0786)	05/06/68C	N/A	09/30/69C	16.8	CPPR-65
050-00320	(LIC) THREE MILE ISLAND 2 (0906)	04/29/68C	N/A	11/04/69C	18.1	CPPR-66
050-00324	(LIC) BRUNSWICK 1 & 2 (0821)	07/31/68C	N/A	02/07/70C	18.2	CPPR-67&68

## CONSTRUCTION PERMITS ISSUED

DOCKET NUMBER	FACILITY NAME	PSAR DOCKET DATE	ER DOCKET DATE	CP ISSUED	ELAPSED MONTHS	CONSTRUCTION PERMIT NUMBER
050-00333	(LIC) FITZPATRICK (0821)	12/31/68C	N/A	05/20/70C	16.6	CPFR-71
050-00327	(LIC) SEQUOYAH 1 & 2 (1148)	10/15/68C	N/A	05/27/70C	19.4	CPFR-72&73
050-00331	(LIC) DUANE ARNOLD (0535)	11/04/68C	N/A	06/22/70C	19.6	CPFR-70
050-00334	(LIC) BEAVER VALLEY 1 (0852)	01/15/69C	N/A	06/26/70C	17.3	CPFR-75
050-00335	(LIC) ST LUCIE 1 (0907)	01/29/69C	N/A	07/01/70C	17.0	CPFR-74
050-00323	(OL) DIABLO CANYON 2 (1106)	07/01/68C	N/A	12/09/70C	29.2	CPFR-69
050-00336	(LIC) MILLSTONE 2 (0828)	02/28/69C	N/A	12/11/70C	21.4	CPFR-76
050-00344	(LIC) TROJAN (1130)	06/25/69C	N/A	02/08/71C	19.4	CPFR-79
050-00338	(LIC) NORTH ANNA 1 (0907)	03/21/69C	N/A	02/19/71C	22.9	CPFR-77&78
050-00346	(LIC) DAVIS-BESSE 1 (0906)	08/01/69C	N/A	03/24/71C	19.7	CPFR-80
050-00348	(LIC) FARLEY 1 & 2 (0829)	10/15/69C	09/11/70C	08/16/72C	31.0	CPFR-85&86
050-00341	(OL) ENRICO FERMI 2 (1093)	04/29/69C	09/16/70C	09/27/72C	40.9	CPFR-87
050-00358	(OL) ZIMMER 1 (0810)	04/06/70C	06/22/71C	10/27/72C	30.7	CPFR-88
050-00368	(LIC) ARKANSAS 2 (0912)	09/17/70C	09/17/70C	12/06/72C	26.6	CPFR-89
050-00329	(OL) MIDLAND 1 & 2 (0458)	10/30/68C	07/27/70C	12/15/72C	49.5	CPFR-91&92
050-00366	(LIC) HATCH 2 (0795)	09/11/70C	02/15/71C	12/27/72C	27.5	CPFR-90
050-00390	(OL) WATTS BAR 1 & 2 (1177)	05/18/71C	05/18/71C	01/23/73C	20.1	CPFR-91&92
050-00369	(OL) MCGUIRE 1 & 2 (1180)	03/18/70C	03/09/71C	02/23/73C	29.1	CPFR-93&94
050-00397	(OL) WASHINGTON NUCLEAR 2 (1100)	08/19/71C	08/18/71C	03/19/73C	19.0	CPFR-93
050-00395	(OL) SUMNER 1 (0900)	06/30/71C	06/30/71C	03/21/73C	20.7	CPFR-94
050-00322	(OL) SHOREHAM (0819)	05/15/68C	06/10/70C	04/14/73C	58.9	CPFR-95
050-00363	(FCP) FORKED RIVER (1070)	06/01/70C	01/15/72C	07/10/73C	37.3	CPFR-96
050-00373	(OL) LASALLE 1 & 2 (1078)	11/03/70C	11/03/70C	09/10/73C	34.2	CPFR-99&100
050-00361	(OL) SAN ONOFRE 2 & 3 (1100)	06/01/70C	01/03/72C	10/18/73C	40.5	CPFR-97&98
050-00387	(OL) SUSQUEHANNA 1 & 2 (1050)	04/01/71C	04/01/71C	11/02/73C	31.0	CPFR-101&102
050-00367	(PCP) BAILLY 1 (0645)	08/24/70C	03/24/71C	05/01/74C	44.2	CPFR-104
050-00412	(PCP) BEAVER VALLEY 2 (0852)	10/20/72C	10/20/72C	05/03/74C	18.4	CPFR-105
050-00352	(PCP) LIMERICK 1 & 2 (1065)	02/27/70C	10/30/70C	06/13/74C	51.7	CPFR-106&107
050-00410	(PCP) NINE MILE POINT 2 (1100)	06/15/72C	06/15/72C	05/24/74C	24.3	CPFR-112
050-00424	(PCP) VOGTLE 1,2,3,4 (1113)	02/13/73C	02/13/73C	05/28/74C	16.5	CPFR-103, 108, 110, 111
050-00404	(PCP) NORTH ANNA 3 & 4 (0907)	09/15/71C	03/15/72C	07/26/74C	34.3	CPFR-114&115
050-00423	(PCP) MILLSTONE 3 (1156)	02/10/73C	02/10/73C	08/09/74C	17.9	CPFR-113
050-00416	(OL) GRAND GULF 1 & 2 (1250)	11/17/72C	11/17/72C	09/04/74C	21.5	CPFR-118&119
050-00354	(PCP) HOPE CREEK 1 & 2 (1067)	02/27/70C	01/28/71C	11/04/74C	56.2	CPFR-120&121
050-00382	(OL) WATERFORD 3 (1113)	12/19/70C	01/15/71C	11/14/74C	46.8	CPFR-103
050-00445	(OL) COMANCHE PEAK 1 & 2 (1150)	07/20/73C	07/20/73C	12/19/74C	16.9	CPFR-126&127
050-00434	(WD) SURRY 3 & 4 (0859)	05/25/73C	09/19/73C	12/20/74C	18.7	CPFR-124&125
050-00438	(OL) BELLEFONTE 1 & 2 (1213)	06/21/73C	06/21/73C	12/24/74C	18.1	CPFR-128&123
050-00413	(OL) CATAWBA 1 & 2 (1153)	10/27/72C	10/27/72C	08/07/75C	33.3	CPFR-116&117
050-00498	(OL) SOUTH TEXAS 1 & 2 (1250)	07/05/74C	07/05/74C	12/22/75C	17.5	CPFR-129&129
050-00460	(PCP) WASHINGTON NUCLEAR 1 (1218)	10/18/73C	08/20/73C	12/24/75C	28.1	CPFR-134
050-00456	(OL) BRAIDWOOD 1 & 2 (1120)	09/20/73C	09/20/73C	12/31/75C	27.3	CPFR-132&133
050-00454	(OL) BYRON 1 & 2 (1120)	09/20/73C	09/20/73C	12/31/75C	27.3	CPFR-130&131
050-00461	(PCP) CLINTON 1 & 2 (0933)	10/30/73C	10/30/73C	02/24/76C	27.8	CPFR-137&138
050-00483	(PCP) CALLAWAY 1 & 2 (1120)	06/21/74C	07/30/74C	04/16/76C	21.8	CPFR-139&140
050-00528	(PCP) PALO VERDE 1,2,3 (1238)	10/07/74C	10/07/74C	05/25/76C	19.6	CPFR-141, 142&143
050-00443	(PCP) SEABROOK 1 & 2 (1200)	07/09/73C	07/09/73C	07/07/76C	35.9	CPFR-135&136
050-00458	(PCP) RIVER BEND 1 & 2 (0934)	09/24/73C	09/21/73C	03/25/77C	42.1	CPFR-145&146
050-00389	(PCP) ST LUCIE 2 (0812)	05/15/73C	08/31/73C	05/02/77C	47.5	CPFR-144
050-00440	(PCP) PERRY 1 & 2 (1205)	06/25/73C	06/25/73C	05/03/77C	45.2	CPFR-148&149
050-00518	(PCP) HARTSVILLE A1,A2,B1,B2 (1233)	11/22/74C	09/13/74C	05/09/77C	31.8	CPFR-150, 151, 152, 153
050-00482	(PCP) WOLF CREEK 1 (1150)	07/26/74C	05/17/74C	05/17/77C	36.0	CPFR-147
050-00485	(PCP) STERLING 1 (1150)	05/21/74C	12/20/74C	09/01/77C	38.3	CPFR-156
050-00484	(WD) TYRONE 1 (1150)	06/21/74C	03/29/74C	12/27/77C	42.2	CPFR-157
050-00491	(PCP) CHEROKEE 1,2,3 (1280)	05/24/74C	06/28/74C	12/30/77C	43.2	CPFR-157, 158, 169



# CONSTRUCTION PERMITS ISSUED

DOCKET NUMBER	FACILITY NAME	PSAR DOCKET DATE	ER DOCKET DATE	CP ISSUED	(1) ELAPSED MONTHS	CONSTRUCTION PERMIT NUMBER
050-00553	(PCP) PHIPPS BEND 1 & 2 (1233)	11/07/75C	04/01/76C	01/16/78C	26.3	CPPR-152, 163
050-00400	(PCP) HARRIS 1-2, 3, 4 (0900)	09/17/71C	09/07/71C	01/27/78C	76.6	CPPR-158, 159, 160, 161
050-00513	(PCP) WASHINGTON NUCLEAR 4 (1218)	10/18/73C	08/20/73C	02/21/78C	54.0	CPPR-174
050-00546	(PCP) MAGBLE HILL 1 & 2 (1130)	09/17/75C	09/11/75C	04/04/78C	30.7	CPPR-170, 171
050-00508	(PCP) WASHINGTON NUCLEAR 3&5 (1242)	09/02/74C	09/30/74C	04/11/78C	44.3	CPPR-154, 155
050-00566	(PCP) YELLOW CREEK 1 & 2 (1300)	07/16/76C	12/20/76C	11/29/78C	28.4	CPPR-172, 173
050-00516	(PCP) JAMESPORT 1 & 2 (1150)	09/06/74C	09/17/74C	01/04/79C	51.9	CPPR-175, 176

### AVERAGE (IN MONTHS)

YEAR	ISSUED	AVERAGE (IN MONTHS)
FY 1956	2	13.1
FY 1957	1	6.9
FY 1958	1	15.8
FY 1959	6	10.5
FY 1960	2	12.7
FY 1961	0	---
FY 1962	1	18.9
FY 1963	1	4.8
FY 1964	2	10.7
FY 1965	2	10.4
FY 1966	3	6.9
FY 1967	8	9.7
FY 1968	10	12.7
FY 1969	12	14.6
FY 1970	9	19.0
FY 1971	6	21.7
FY 1972	0	0
FY 1973	11	32.6
FY 1974	9	33.1
FY 1975	8	28.8
FY 1976	9	26.3
FY 1977	6	39.5
FY 1978	7	44.7* (39.4)**
FY 1979	2	40.2

(1) This is the difference between the Docket Date and the CP issued Date

\*Includes Harris 1-4 delayed four years by applicant.  
\*\*EXCLUDES HARRIS 1 - 4

SINCE 1955, 174 CONSTRUCTION PERMITS HAVE BEEN ISSUED.

# LIMITED WORK AUTHORIZATIONS ISSUED

(LWA-1's AND LWA-2's ISSUED. DURATIONS ARE FROM ER DOCKETING DATE )

DATA AS OF: APRIL 4, 1980

	APPLICATION	ER DOCKETED	LWA-1 ISSUED	ELAPSED MONTHS	LWA-2 ISSUED	ELAPSED MONTHS
1.	GRAND GULF 1 & 2	11-17-72	05-03-74	17.5	07-14-74	41.9
2.	WATERFORD	01-15-71	05-16-74	39.9		
3.	CATAWBA 1 & 2	10-27-72	05-16-74	16.7		
4.	VOGTLE 1-4*	02-13-73	05-28-74	15.5		
5.	MILLSTONE 3	02-10-73	06-05-74	15.9		
6.	BELLEFONTE 1 & 2	06-21-73	07-17-74	14.8		
7.	SURRY 3 & 4	09-14-73	10-04-74	12.6		
8.	COMANCHE PEAK 1 & 2	07-20-73	10-17-74	14.9	10-17-74	14.9
9.	PERRY 1 & 2	06-25-73	10-21-74	15.9	09-09-75**	29.7
10.	BYRON 1 & 2	09-20-73	12-13-74	14.7	10-30-75	25.3
11.	BRAIDWOOD 1 & 2	09-20-73	01-13-75	15.7	10-30-75	25.3
12.	ST. LUCIE 2	08-31-73	03-17-75	18.6	03-17-75	18.6
13.	WPPSS 1 & 4	08-20-73	08-01-75	23.3	08-01-75***	23.3
14.	SUMMIT 1 & 2	08-16-73	08-07-75	25.3		
15.	SOUTH TEXAS 1 & 2	07-05-74	08-12-75	13.2		
16.	CALLAWAY 1 & 2	07-30-74	08-16-75	13.7		
17.	RIVER BEND 1 & 2	09-21-73	09-05-75	23.4		
18.	CLINTON 1 & 2	10-30-73	10-01-75	23.1		
19.	DAVIS BESSE 2 & 3	03-09-74	12-31-75	16.7	09-13-78	49.1
20.	HARTSVILLE 1-4	09-13-74	04-22-76	19.3	12-27-76	27.9
21.	CHEROKEE 1, 2, 3,	06-28-74	05-28-76	23.0	07-28-77	25.0
22.	WOLF CREEK	06-21-74	01-24-77	30.3	01-24-77	30.3
23.	WPPS 3 & 5	09-30-74	04-03-77	30.3		
24.	MARBLE HILL 1 & 2	09-11-75	08-24-77	23.4	12-09-77	26.9
25.	PHIPPS BEND 1 & 2	04-01-76	10-18-77	18.6		
26.	YELLOW CREEK 1 & 2	12-20-76	02-09-78	13.6		
27.	BLACK FOX 1 & 2	12-23-75	07-26-78	31.0		

\*VOGTLE 3 & 4 WERE CANCELLED SUBSEQUENT TO LWA ISSUANCE.

\*\*PERRY 1 & 2 WAS GRANTED AN EXTENDED LWA-2 ON 12-31-75,  
AND AN AMENDMENT ON MAY 12, 1976 AND SEPT 17, 1976

\*\*\*THE WPPSS 1 LWA 1 & 2 WAS EXTENDED ON OCTOBER 2, 1976

\*\*\*\*WPPS 3 & 4 GRANTED AMENDMENT TO LWA ON MAY 10, 1977

# MAJOR LICENSED FUEL CYCLE FACILITIES

(LICENSED BY NRC)

UPDATE BIMONTHLY

DATA AS OF: MARCH 7, 1980

APPLICANT	LOCATION	DOCKET NUMBER	LICENSE NUMBER	EXPIRATION DATE
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## URANIUM HEXAFLUORIDE (UF<sub>6</sub>) PRODUCTION PLANTS

ALLIED CHEMICAL CORPORATION	METROPOLIS, IL	40-3392	SUB-526	08-31-82
KERR-MCGEE CORPORATION	SEQUOYAH, OK	40-8027	SUB-1010	10-31-82

## URANIUM FUEL PROCESSING & FABRICATION PLANTS

ATOMICS INTERNATIONAL	CANOGA PARK, CA	70-25	SNM-21	09-30-82
BABCOCK & WILCOX	LYNCHBURG, VA	70-27	SNM-42	03-31-82
BABCOCK & WILCOX	APOLLO, PA	70-135	SNM-145	10-31-83
BABCOCK & WILCOX	LYNCHBURG, VA	70-824	SNM-778	01-31-79**
BABCOCK & WILCOX	LYNCHBURG, VA	70-1201	SNM-1168	08-31-81
BATTTELLE P.W. LABORATORIES	RICHLAND, WA	70-784	SNM-942	06-30-79**
COMBUSTION ENGINEERING, INC.	HEMATITE, MD	70-36	SNM-33	03-31-82
COMBUSTION ENGINEERING, INC.	WINDSOR, CT	70-1100	SNM-1067	01-31-81
EXXON NUCLEAR COMPANY, INC.	RICHLAND, WA	70-1257	SNM-1227	07-31-79**
GENERAL ATOMIC COMPANY	SAN DIEGO, CA	70-734	SNM-696	08-31-81
GENERAL ELECTRIC COMPANY	SAN JOSE, CA	70-1007	SNM-54 (1)	05-31-82
GENERAL ELECTRIC COMPANY	WILMINGTON, NC	70-1113	SNM-1097	05-31-81
KERR-MCGEE CORPORATION	CRESENT CITY, OK	70-925	SNM-923	04-30-82
NUCLEAR FUEL SERVICES, INC.	ERWIN, TN	70-143	SNM-124	02-29-84
TEXAS INSTRUMENTS, INC.	ATTLEBORO, MA	70-33	SNM-23	03-31-79**
U. S. NUCLEAR, INC.	OAK RIDGE, TN	70-1319	SNM-1315	03-31-78*
UNITED NUCLEAR CORP.	MONTVILLE, CT	70-371	SNM-368	03-31-82
UNITED NUCLEAR CORP.	WOOD RIVER, RI	70-820	SNM-777	06-30-81
WESTINGHOUSE ELECTRIC CORP.	COLUMBIA, SC	70-1151	SNM-1107 (2)	05-31-83

## PLUTONIUM FUEL & FABRICATION PLANTS

BABCOCK & WILCOX	PARKS TOWNSHIP, PA	70-364	SNM-414	01-31-84
BATTTELLE MEMORIAL INSTITUTE	WEST JEFFERSON, OH	70-8	SNM-7	02-28-74**
GENERAL ELECTRIC COMPANY	VALLECITOS, CA	70-754	SNM-960	07-31-75**
KERR-MCGEE CORPORATION	CRESENT, OK	70-1193	SNM-1174 (3)	04-30-82
WESTINGHOUSE ELECTRIC CORP.	CHESNICK, PA	70-1143	SNM-1120	04-30-74**
WESTINGHOUSE ELECTRIC CORP.	WALTZ MILL, PA	70-698	SNM-770	04-30-80
EXXON NUCLEAR COMPANY	OAK RIDGE, TN	50-564		(NOT UNDER REVIEW)

## FUEL REPROCESSING FACILITIES

ALLIED-GENERAL NUCL. SER.	BARNWELL, SC	50-332 (4)		(NOT UNDER REVIEW)
NUCLEAR FUEL SERVICES, INC.	WEST VALLEY, NY	50-201 (5)		(NOT UNDER REVIEW)

## IRRADIATED FUEL STORAGE FACILITIES

GENERAL ELECTRIC	MORRIS, IL	70-1308	SNM-1265	08-31-79**
NUCLEAR FUEL SERVICES, INC.	WEST VALLEY, NY	50-201	SNM-857 (6)	04-03-69**

## WASTE BURIAL FACILITIES

NUCLEAR ENGINEERING	SHEFFIELD, IL	27-39		09-00-68**
NUCLEAR ENGINEERING	HANFORD, WA	27-48		10-00-68**

- (1) FACILITY NOW REDUCED TO R&D ACTIVITIES ON LWR FUEL.
- (2) ALSO AUTHORIZED TO REVIVE AND STORE SEALED MIXED OXIDE FUEL RODS AND ASSEMBLE MIXED OXIDE RODS INTO FUEL BUNDLES.
- (3) SHUTDOWN.
- (4) CP ISSUED IN 1970.
- (5) PDL ISSUED IN 1966, CURRENTLY SHUTDOWN.
- (6) LICENSED ALSO FOR SHIPPING AND RECEIVING 70-959 (SNM-984)

\* CLOSE DOWN PROCEDURES.  
\*\* TIMELY RENEWAL

## MAJOR LICENSED FUEL CYCLE FACILITIES

(LICENSED BY NRC)

NRC LICENSED URANIUM MILLS AND OTHER FACILITIES

DATA AS OF: MARCH 7, 1980

NAME	LOCATION	DOCKET NUMBER	LICENSE NUMBER	EXPIRATION DATE
U-MILLS				
ATLAS MINERALS	MOAB, UT	40-3453	SUA-917	04-30-84
BEAR CREEK URANIUM COMPANY		40-8452	SUA-1310	07-31-82
EXXON COMPANY	CONVERSE CO., WY	40-8064	SUA-1054	03-31-81
FEDERAL-AMERICAN PARTNERS	RIVERTON, WY	40-4492	SUA-667	01-31-76**
PATHFINDER MINES	GAS HILLS, WY	40-2259	SUA-672	01-31-83
PETROATOMICS COMPANY	SHIRLEY BASIN, WY	40-6659	SUA-551	04-30-81
RIO ALGON MINES LIMITED	MOAB, UT	40-8084	SUA-1119	09-30-82
UNION CARBIDE CORPORATION	GAS HILLS, WY	40-299	SUA-648	03-31-76**
WESTERN NUCLEAR, INC.	JEFFREY CITY, WY	40-1162	SUA-56	10-31-73**
MINERALS EXPLORATION	SWEETWATER CO., WY	40-8504	SUA-1350	02-16-84
UNITED NUCLEAR MORTON RANCH	CONVERSE, WY	40-8602	SUA-1356	05-09-84
PATHFINDER MINES	SHIRLEY BASIN, WY	40-6622	SUA-442	00-30-82
TENNESSEE VALLEY AUTHORITY	EDGEMONT, SD	40-1341	SUA-616	02-29-76**
ENERGY FUELS NUCLEAR, INC.	WHITE MESA, UT	40-8607	SUA-1358	08-30-84
PLATEAU RESOURCES, LTD.	BLANDING, UT	40-8674		09-30-84
ENERGY FUELS NUCLEAR, INC.	HANKSVILLE, UT	40-8675		09-30-84
OTHERS WHICH COME UNDER U-MILLS				
CLEVELAND CLIFFS IRON COMPANY	POWDER RIVER D'SIN, WY	40-8200	SUA-1199	05-31-79**
COTTER CORPORATION	JOHNSON CO., WY	40-8511	SUA-1273	08-31-81
EXXON COMPANY	CONVERSE CO., WY	40-8102	SUA-1139	07-31-78**
HOLMES AND HARVER, INC.	ANAHEIM, CA	40-8550	SUA-1397	07-31-82
HOMESTAKE MINING COMPANY	SAN JUAN CO., UT	40-8434	SUA-1249	04-30-79*
MINERALS EXPLORATION CO.	SWEETWATER CO., WY	40-8368	SUA-1223	01-31-80
PLATEAU RESOURCES LTD.	GARFIELD CO., UT	40-7869	SUA-1013	09-30-70**
ROCKY MOUNTAIN ENERGY	CONVERSE CO., WY	40-8380	SUA-1228	02-29-80
WYOMING MINERAL CORP.	JOHNSON CO., WY	40-8304	SUA-1204	06-30-79
WYOMING MINERAL CORP.	SALT LAKE CO., UT	40-8595	SUA-1315	09-30-82
WOLD NUCLEAR	SWEETWATER CO., WY	40-8636	SUA-1329	04-30-83
NUCLEAR DYNAMICS	CROOK CO., WY	40-8663	SUA-1331	04-30-83
KERR MCGEE NUCLEAR	CARBON CO., WY	40-8586	SUA-1330	04-30-83
OGLE PETROLEUM	FREMONT CO., WY	40-8693	SUA-1336	03-31-83
JSP CORPORATION	JOHNSON CO., WY	40-8684	SUA-1337	08-31-83
ROCKY MOUNTAIN ENERGY CO.	CAMPBELL CO., WY	40-8697	SUA-1338	09-30-83
WYOMING MIN IRIGARY	JOHNSON CO., WY	40-8502	SUA-1341	10-31-83
ENERGY RESOURCES	SAN JUAN, UT	40-8707	SUA-1351	03-31-84
CLEVELAND CLIFFS	CAMPBELL CO., WY	40-8714	SUA-1352	06-30-84
BRUSH WELLMAN	DELTA, UT	40-8722	SUA-1354	05-30-84
ENERGY FUELS NUCLEAR, INC.	WHITE MESA, UT	40-8676	SUA-1324	08-30-74
TETON EXPLORATION	CONVERSE CO., WY	40-8728		01-30-85

\*\*TIMELY RENEWAL

## NUCLEAR STEAM SUPPLY SYSTEM CONTRACTS AWARDED

THE NUMBER INSIDE PARENTHESES REPRESENTS TOTAL MWE, AND THE NUMBER PRECEDING THE PARENTHESIS REPRESENTS THE NUMBER OF ORDERS PER VENDOR.

		GE	W	B&W	COMB	GAC	OTHER	TOTAL
YEAR OF ORDER	THROUGH 1964	5(1590)	5(1287)	1(265)	----	1(40)	8(1145)	20(4327)
	1965	3(2131)	3(2029)	----	----	1(330)	----	7(4490)
	1966	9(7732)	6(4947)	3(2561)	2(1157)	----	----	20(16397)
	1967	7(6225)	13(10814)	5(4365)	5(4118)	----	----	30(25522)
	1968	7(6191)	4(4532)	3(2172)	----	----	----	14(12895)
	1969	3(2944)	3(3189)	----	1(1070)	----	----	7(7203)
	1970	3(2951)	5(4664)	2(2426)	4(4225)	----	----	14(14266)
	1971	4(4439)	10(9818)	2(1814)	----	----	----	16(16071)
	1972	13(15450)	9(9596)	5(5336)	2(1990)	----	----	29(32372)
	1973	8(8677)	8(9396)	----	11(13554)	----	----	27(31627)
	1974	5(6043)	5(5660)	1(1141)	3(3842)	----	----	14(16686)
	1975	----	----	----	----	----	----	----
	1976	----	----	----	----	----	----	----
	1977	----	----	----	4(3720)	----	----	4(3720)
	1978	----	2(2300)	----	----	----	----	2(2300)
	1979							
	1980							
TOTAL		67(64373)	73(68232)	24(22608)	32(33676)	2(370)	8(1145)	206(190404)

### PLANTS CANCELLED DURING CY 1971 THRU 1980 (NOT INCLUDED ABOVE)

		GE	W	B&W	COMB	GAC	OTHER	TOTAL
YEAR OF ORDER	1971	----	----	----	----	4(3860)	----	4(3860)
	1972	1(1171)	2(2300)	----	----	----	----	3(3471)
	1973	----	5(5400)	2(1860)	----	----	----	7(7060)
	1974	6(6928)	2(2336)	6(7190)	3(3518)	2(2320)	----	19(22292)
	1975	----	4(4100)	----	----	----	----	4(4100)
	1976	----	----	3(3400)	----	----	----	3(3400)
	1977				2(2500)			2(2500)
	1978							

NOTE: TO DETERMINE TOTAL ORDERS BY CALENDAR YEAR, BOTH CHARTS MUST BE ADDED.

**SECTION II -  
REACTOR LICENSING, CONSTRUCTION,  
AND OPERATION**

## NEW APPLICATION FORECAST

DATA AS OF: APRIL 4, 1980

## CONSTRUCTION PERMIT FORECAST

1980	FACILITY NAME	UTILITY	PROJECT NUMBER	APPL. ER SUB. DATE	APPL. PSAR SUB. DATE
	CARROLL 1 & 2	COMMONWEALTH EDISON	559	01/00/81	01/00/81

## OPERATING LICENSE FORECAST

	FACILITY	DOCKET NUMBER	UTILITY	APPLICANT SUBMITS PSAR	APPLICANT SUBMITS ENV. RPT.
	PALO VERDE 1,2,3	0528-0530	ARIZONA PUBLIC SERVICE	10/05/79C	12/05/79C
	CALLAWAY 1 & 2	0483&0486	UNION ELECTRIC	10/25/79C	10/25/79C
	CLINTON 1 & 2	0461&0462	ILLINOIS POWER	12/01/79C	12/01/79C
	WOLF CREEK 1	050-00482	KANSAS GAS & ELECTRIC	02/21/80C	02/21/80C
	LIMERICK 1 & 2	0352&0353	PHILADELPHIA ELECTRIC	04/00/80	04/00/80
	ST LUCIE 2	050-00389	FLORIDA POWER & LIGHT	04/00/80	04/00/80
	PERRY 1 & 2	0440&0441	CLEVELAND ELECTRIC ILLUMINATING	06/00/80	06/00/80
	SEABROOK 1 & 2	0443&0444	PUBLIC SERVICE OF NEW HAMPSHIRE	06/00/80	06/00/81
FY 1981	HARRIS 1,2,3,4	0400-0403	CAROLINA POWER & LIGHT	10/00/80	10/00/80
	WASHINGTON NUCLEAR 1&4	0460&0513	WASHINGTON PUBLIC POWER SUPPLY S	05/00/81	05/00/81
	WASHINGTON NUCLEAR 3&5	050&0509	WASHINGTON PUBLIC POWER SUPPLY S	06/00/81	06/00/81

## SITE REVIEW FORECAST

<u>PROJECT</u>	<u>PROJ NO</u>	<u>APPLICANT</u>	<u>TENDER DATE</u>
S. MIDDLE SERVICES SITE		SOUTH MIDDLE SERVICES	06/00/80

(CONTINUED ON NEXT PAGE)

## SPECIAL REVIEWS - NEW APPLICATION FORECAST

DATA AS OF: APRIL 4, 1980

### STANDARDIZATION REVIEWS

<u>PROJECT</u>	<u>PROJ NO</u>	<u>APPLICANT</u>	<u>TENDER DATE</u>
FY 1980/81 (NSS)GESSAR-238 NI	447	GENERAL ELECTRIC COMPANY	03/31/80C
(NSS)RESAR-412	577	WEST	10/00/81

### OTHER SPECIAL REVIEWS

FY 1980/81 (SP)LWBR	561	ERDA NAVAL REACTORS	03/06/80C
(SP)A1W-A ADV. CORE MOD	656	DOE/NAVAL REACTORS	04/00/80
(SP)GCFR PSID	456	HELIUM BREEDER ASSOC	04/00/80
(SP)LMFBR DEV. PLT PSID		DOE	04/00/80
(SP)NASAP ALT. FIN. RPT	616	DOE	06/00/80
 (SP)TREAT UPGRADE		DOE/NRA	 10/00/80

## SPECIAL REVIEWS - PROJECTED COMPLETION DATES

### EARLY SITE REVIEWS

<u>DOCKET NUMBER</u>	<u>FACILITY NAME</u>	<u>BASELINE DATE</u>	<u>CURRENT DATE</u>
FY 1980			
050-07510	(ESR)*BLUE HILLS SITE (0918)	N/S	N/S
000-07559	(ESR)*CARROLL SITE (1120)	N/S	N/S
000-02463	(ESR)*FULTON SITE (0000)	N/S	N/S

### OTHER SPECIAL REVIEWS

FY 1980	000-07448 (SPC)*(SP)FFTF FSAR (0400)	04/01/80	04/00/80
	050-00437 (SPC)*(SP)FNF 1-8 (MANUF.) (1150)	N/S	N/S
	050-00376 (SPC)*NORTH COAST N.S. (0583)	N/S	N/S
	000-05482 (SPC)*SNUPPS 1-6 (GENERIC) (0000)	N/S	N/S

### STANDARDIZATION REVIEWS

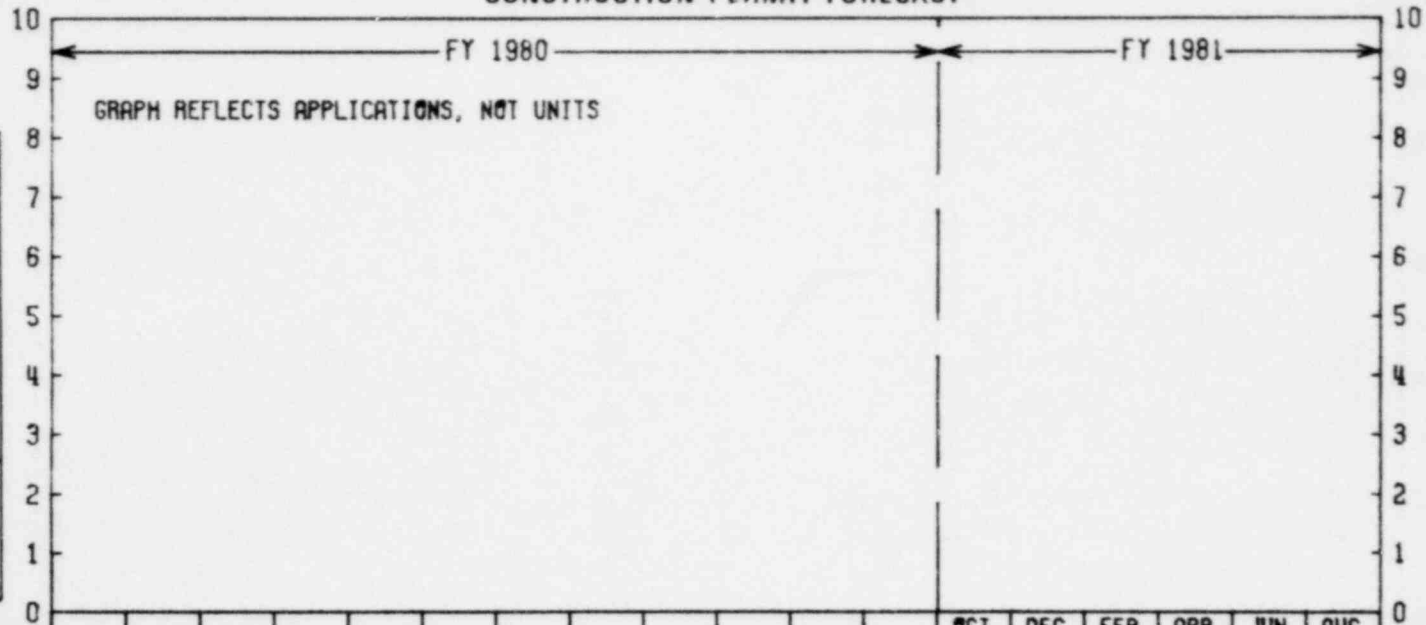
050-00477	(PDS)*(NSS)CESSAR SYSTEM 80 (1295)	N/S	N/S
050-00586	(PDS)*(BOP)BOPSSAR/BSAR-205 (0000)	N/S	N/S
000-02591	(PDS)*(BOP)ESSAR/BSAR-205 (0000)	N/S	N/S
050-00591	(PDS)*(BOP)ESSAR/CESSAR-80 (0000)	N/S	N/S
000-07591	(PDS)*(BOP)ESSAR/RESAR-414 (0000)	N/S	N/S
050-00595	(PDS)*(BOP)GAISSAR (0000)	N/S	N/S
050-00584	(PDS)*(BOP)GIBSSAR (U) (0000)	N/S	N/S
000-00595	(PDS)*(BOP)SWESSAR/BSAR-205 (1300)	N/S	N/S



### CONSTRUCTION PERMIT FORECAST

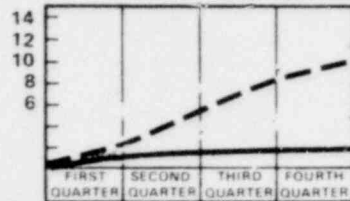
**DESCRIPTION**  
 This chart shows the October 1, 1979 forecast of cumulative construction permits (dashed line) projected to be issued through FY 1980 and 1981. The solid black line represents the actual cumulative construction permits issued to date, and the dotted line shows cumulative estimate. Numbers in parentheses are latest projections.

**LEGEND:**  
 BUDGET FORECAST -----  
 ACTUAL COMPLETIONS ———  
 LATEST ESTIMATE .....



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	APR	MAY	JUN	JUL	AUG	SEP
BUDGET FORECAST BY MONTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATEST ESTIMATE BY MONTH	0	0	0	0	0	0	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
CUMULATIVE BUDGET FORECAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CUMULATIVE LATEST ESTIMATE	0	0	0	0	0	0	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

FY 1979 VS OCTOBER 1980 FORECAST



**NOTES**  
 N/S: Currently not scheduled  
 N/A: Schedule Terminated

**SUMMARY**  
 No CP applications were completed in March  
 None are estimated for completion in FY 80.

DATA AS OF: APRIL 4, 1980

	FISCAL YEAR 1980	APPLICATIONS (MWe)	10-01-79 FORECAST	CURRENT ESTIMATE
	NONE			
	NOT SCHEDULED			
	050-00466 (CP)	ALLENS CREEK 1 (1150)	N/S	N/S
	050-00556 (CP)	BLACK FOX 1 & 2 (1150)	N/S	N/S
	050-00502 (CP)	HAVEN 1 (AMEND) (0900)	N/S	N/S
	050-00514 (CP)	PEBBLE SPRINGS 1 & 2 (1260)	N/S	N/S
	050-00488 (CP)	PERKINS 1,2,3 (1280)	N/S	N/S
	050-00471 (CP)	PILGRIM 2 (1180)	N/S	N/S
	050-00522 (CP)	SKAGIT 1 & 2 (1277)	N/S	N/S
<b>STATUS OF APPLICATION</b>				
<b>FACILITY NAME</b>	<b>SE SUPPL DATE</b>	<b>FES DATE</b>	<b>LWA DATE</b>	<b>PDD DATE</b>
ALLENS CREEK 1	COMPLETE	COMPLETE	N/A	N/S
BLACK FOX 1 & 2	COMPLETE	COMPLETE	COMPLETE	N/S
HAVEN 1 (AMEND)	N/S	N/S	N/A	N/S
PEBBLE SPRINGS 1 & 2	N/S	COMPLETE	N/S	N/S
PERKINS 1,2,3	COMPLETE	COMPLETE	N/A	N/S
PILGRIM 2	COMPLETE	COMPLETE	N/S	N/S
SKAGIT 1 & 2	COMPLETE	COMPLETE	N/S	N/S

# CONSTRUCTION PERMIT REVIEW DURATION SUMMARY

(DURATIONS OF MAJOR ACTIVITIES FOR APPLICATIONS DOCKETED IN FISCAL YEARS 1974 - 1979)

DATA AS OF: APRIL 4, 1980

DESCRIPTION

THIS CHART REPRESENTS DURATIONS (IN MONTHS) OF MAJOR ACTIVITIES FOR CP APPLICATIONS DOCKETED IN FISCAL YEARS 1974 THROUGH 1979. REVIEWS ARE LISTED IN CHRONOLOGICAL ORDER BY DOCKET DATE.

APPLICATION FY 1974	PSAR	ER	SE SUPP	FES	LWA	CP	DURATION (MONTHS)				START CONST.
							SAF. REV.	ENV. REV.	LWA REV.	CP REV.	
SEABROOK 1 & 2	07-09-73	07-09-73	11-14-75	12-06-74	----	07-07-76	28.1	16.9	----	35.9	35.9
COMANCHE PEAK 1 & 2	07-20-73	07-20-73	11-15-74	06-07-74	10-17-74	12-19-74	15.8	10.5	14.9	16.9	14.9
DOUGLAS POINT 1 & 2	08-09-73	08-09-73	OPEN	03-04-76	----	OPEN	----	30.8	----	----	----
WASHINGTON NUCLEAR 1	10-18-73	08-20-73	10-15-75	03-10-75	08-01-75	12-24-75	23.9	18.6	23.3	26.2	23.3
WASHINGTON NUCLEAR 4	10-18-73	08-20-73	08-06-76	----	08-01-75	02-21-78	33.6	----	23.3	52.1	23.3
BRAIDHOOD 1 & 2	09-20-73	09-20-73	10-17-75	07-19-74	01-14-75	12-31-75	24.9	9.9	15.8	27.3	15.8
BYRON 1 & 2	09-20-73	09-20-73	10-17-75	07-25-74	12-13-74	12-31-75	24.9	10.1	14.7	27.3	14.7
RIVER BEND 1 & 2	09-24-73	09-21-73	12-22-75	10-02-74	09-05-75	03-25-77	26.9	12.3	23.4	42.0	23.4
CLINTON 1 & 2	10-30-73	10-30-73	12-02-75	10-04-74	10-01-75	02-24-76	25.0	11.1	23.0	27.8	23.0
FULTON 1 & 2	11-16-73	11-14-73	06-30-75	05-05-75	----	OPEN	19.4	17.7	----	----	----
ALLENS CREEK 1	12-07-73	12-07-73	06-31-79	11-18-74	----	OPEN	63.8	11.3	----	----	----
PILGRIM 2	12-21-73	12-21-73	01-19-79	05-27-75	OPEN	OPEN	60.9	17.2	----	----	----
QUANICASSEE 1 & 2	02-28-74	02-11-74	----	----	OPEN	OPEN	----	----	----	----	----
WOLF CREEK 1	07-26-74	05-17-74	11-29-76	10-31-75	01-24-77	05-17-77	28.1	17.4	32.2	33.7	32.2
CHEROKEE 1,2,3	05-24-74	06-28-74	07-11-77	10-01-75	05-28-76	12-30-77	37.5	15.1	23.0	43.2	23.0
PERKINS 1,2,3	05-24-74	06-28-74	07-11-77	10-21-75	----	OPEN	37.5	15.7	----	----	----
CALLAWAY 1 & 2	06-21-74	07-30-74	01-23-76	03-21-75	08-14-75	04-16-76	19.0	7.7	12.4	21.8	12.4
STERLING 1	06-21-74	12-20-74	12-01-76	06-28-76	----	09-01-77	29.3	18.2	----	38.3	38.3
TYRONE 1	06-21-74	08-29-74	12-01-76	04-28-77	----	12-27-77	29.3	31.9	----	42.2	42.2
FY 1975											
SOUTH TEXAS 1 & 2	07-05-74	07-05-74	10-29-75	03-28-75	08-12-75	12-22-75	15.8	8.7	13.2	17.5	13.2
MONTAGUE 1 & 2	07-12-74	07-12-74	OPEN	02-22-77	----	OPEN	----	31.3	----	----	----
WASHINGTON NUCLEAR 3&5	08-02-74	09-30-74	04-22-77	06-03-75	04-08-77	04-11-78	32.6	8.1	30.2	44.3	30.2
PEBBLE SPRINGS 1 & 2	10-18-74	08-06-74	OPEN	04-16-75	OPEN	OPEN	----	8.3	----	----	----
DAVIS BESSE 2 & 3	08-16-74	08-09-74	OPEN	09-29-75	12-31-75	OPEN	----	13.6	16.7	----	16.7
BLUE HILLS 1 & 2	08-23-74	OPEN	OPEN	OPEN	----	----	----	----	----	----	----
KOSHKONONG 1 & 2	08-26-74	09-06-74	07-02-76	OPEN	----	OPEN	22.2	----	----	----	----
JAMESPORT 1 & 2	09-06-74	09-17-74	01-17-77	10-07-75	----	01-04-79	28.3	12.6	----	51.9	51.9
HARTSVILLE A1,A2,B1,B2	11-22-74	09-13-74	10-20-76	06-25-75	04-22-76	05-09-77	22.9	9.4	19.3	29.5	19.3
BARTON 1 & 2	09-27-74	11-15-74	OPEN	OPEN	----	OPEN	----	----	----	----	----
SKAGIT 1 & 2	01-15-75	09-30-74	10-20-78	06-02-75	OPEN	OPEN	45.1	8.0	----	----	----
FALO VERDE 1,2,3	10-07-74	10-07-74	04-08-76	09-25-75	----	05-25-76	18.2	11.6	----	19.6	19.6
NORTH COAST N.S.	01-27-75	01-27-75	----	04-26-77	----	----	----	26.9	----	----	----
CLINCH RIVER	06-13-75	04-11-75	OPEN	02-07-77	OPEN	OPEN	----	21.8	----	----	----
FY 1976											
FORT CALHOUN 2	09-11-75	01-26-76	OPEN	03-13-78	----	----	----	25.5	----	----	----
MARBLE HILL 1 & 2	09-17-75	09-11-75	07-22-77	09-22-76	08-24-77	04-04-78	22.1	12.3	23.4	30.5	23.4
GREENE COUNTY	01-26-76	09-15-75	OPEN	02-07-79	----	OPEN	----	40.7	----	----	----
PHIPPS BEND 1 & 2	11-07-75	04-01-76	09-23-77	02-17-77	10-18-77	01-16-78	22.5	10.5	18.5	26.3	18.5
BLACK FOX 1 & 2	12-23-75	12-23-75	09-05-78	02-08-77	07-26-78	OPEN	32.4	13.5	31.1	----	31.1
YELLOW CREEK 1 & 2	07-16-76	12-20-76	06-27-78	11-28-77	02-09-78	11-29-78	23.3	11.2	13.6	28.4	13.6
NEW ENGLAND 1 & 2	09-09-76	09-09-76	07-20-79	OPEN	----	OPEN	34.3	----	----	----	----

## CONSTRUCTION PERMIT REVIEW DURATION SUMMARY

APPLICATION	PSAR	ER	SE	SUPP	FES	LWA	CP	DURATION (MONTHS)				
								SAF. REV.	ENV. REV.	LWA REV.	CP REV.	
FY 1977												
ERIE 1 & 2	03-01-77	05-02-77	01-25-79		OPEN	OPEN	OPEN	22.8	----	----	----	----
SUNDESERT 1 & 2	04-26-77	04-12-77	OPEN		10-24-78	OPEN	OPEN	----	18.4	----	----	----
FY 1978												
PALO VERDE 4 & 5	03-31-78	10-30-78	08-31-79*		08-01-79*	OPEN	OPEN	17.0	9.0	----	----	----
FY 1979												
NEW HAVEN 1 & 2	12-29-78	01-24-79	OPEN		03-00-80*	OPEN	OPEN	----	18.2	----	----	----

## AVERAGES BY FISCAL YEAR

FISCAL YEAR CASE DOCKETED	SAFETY REVIEW (NUMBER OF CASES)	ENVIRONMENTAL REVIEW (NUMBER OF CASES)	LWA REVIEW (NUMBER OF CASES)	CP REVIEW (NUMBER OF CASES)	START OF CONSTRUCTION (NUMBER OF CASES)
1974	31.1(17)	16.0(17)	20.6(10)	33.4(13)	24.8(13)
1975	26.4(7)	14.5(11)	19.9(4)	37.7(6)	31.1(7)
1976	26.9(5)	19.0(6)	21.7(4)	28.4(3)	21.7(4)
1977	22.8(1)	18.4(1)	—	—	—
1978	17.0(1)	9.0(1)	—	—	—
1979	— (1)	18.2(1)	—	—	—

\*ACTIVITY NOT YET COMPLETED

**SAFETY EVALUATION SUPPLEMENT DURATION SUMMARY**  
**(DURATIONS FOR FINAL SE SUPPLEMENTS ISSUED FOR CP REVIEWS DURING FY 1974 - 1979)**

SE SUPPLEMENTS BY FISCAL YEAR

APPLICATION	SAR DOCKETED	SE SUPPL.	DURATION (MONTHS)
(PCP) NINE MILE POINT 2 (1100)	06/15/72C	08/07/73C	13.7
(PCP) BAILLY 1 (0645)	08/24/70C	10/31/73C	38.2
(PCP) CATAWBA 1 & 2 (1145)	10/27/72C	01/21/74C	14.8
(OL) WATERFORD 3 (1113)	12/19/70C	02/01/74C	37.4
(PCP) NORTH ANNA 3 & 4 (0907)	09/15/71C	02/28/74C	29.4
(PCP) HOPE CREEK 1 & 2 (1067)	02/27/70C	03/01/74C	48.1
(PCP) BEAVER VALLEY 2 (0852)	10/20/72C	04/25/74C	18.1
(PCP) VOGTLE 1 & 2 (1113)	02/13/73C	05/01/74C	14.6
(PCP) MILLSTONE 3 (1156)	02/10/73C	05/16/74C	15.2
AVERAGE DURATION 25.5 (FY 1974)			
(OL) GRAND GULF 1 & 2 (1250)	11/17/72C	07/24/74C	20.2
(OL) BELLEFONTE 1 & 2 (1213)	06/21/73C	08/30/74C	14.3
(PCP) SURRY 3 & 4 (0859)	05/29/73C	09/03/74C	15.1
(OL) COMANCHE PEAK 1 & 2 (1150)	07/20/73C	11/15/74C	15.8
(PCP) FULTON 1 & 2 (1160)	11/16/73C	06/30/75C	19.4
AVERAGE DURATION 16.9 (FY 1975)			
(PCP) WASHINGTON NUCLEAR 1&4 (1218)	10/18/73C	10/15/75C	23.9
(OL) BRAIDWOOD 1 & 2 (1120)	09/20/73C	10/17/75C	24.9
(OL) BYRON 1 & 2 (1120)	09/20/73C	10/17/75C	24.9
(OL) SOUTH TEXAS 1 & 2 (1250)	07/05/74C	10/29/75C	15.8
(PCP) SEABROOK 1 & 2 (1200)	07/09/73C	11/14/75C	28.1
(PCP) CLINTON 1 & 2 (0933)	10/30/73C	12/02/75C	25.0
(PCP) RIVER BEND 1 & 2 (0934)	09/24/73C	12/22/75C	26.9
(PCP) CALLAWAY 1 & 2 (1120)	06/21/74C	01/23/76C	19.0
(PCP) PALO VERDE 1,2,3 (1270)	10/07/74C	04/08/76C	18.0
(PCP) ST LUCIE 2 (0810)	05/15/73C	04/27/76C	35.4
(PCP) KOSHKONONG 1 (0900)	08/26/74C	07/02/76C	22.2
AVERAGE DURATION 26.0 (FY 1976)			
(PCP) HARTSVILLE A1,A2,B1,B2 (1233)	11/22/74C	10/20/76C	22.9
(PCP) WOLF CREEK 1 (1150)	07/26/74C	11/29/76C	28.1
(PCP) STERLING 1 (1150)	06/21/74C	12/01/76C	29.3
(PCP) TYRONE 1 (1150)	06/21/74C	12/01/76C	29.3
(CP) JAMESPORT 1 & 2 (1151)	09/06/74C	01/17/77C	28.3
(PCP) PERRY 1 & 2 (1205)	06/25/73C	02/22/77C	43.9
(PCP) WASHINGTON NUCLEAR 3 1242)	08/02/74C	04/22/77C	32.6
(PCP) CHEROKEE 1,2,3 (1280)	05/24/74C	07/11/77C	37.5
(CP) PERKINS 1,2,3 (1280)	05/24/74C	07/11/77C	37.5
(PCP) MARBLE HILL 1 & 2 (1130)	09/17/75C	07/22/77C	22.1
(PCP) HARRIS 1,2,3,4 (0900)	09/17/71C	09/20/77C	72.1
(PCP) PHIPPS BEND 1 & 2 (1233)	11/07/75C	09/23/77C	22.5
AVERAGE DURATION 33.8 (FY 1977)			
(PCP) YELLOW CREEK 1 & 2 (1285)	07/16/76C	06/27/78C	23.3
(CP) BLACK FOX 1 & 2 (1150)	12/23/75C	09/05/78C	32.4
AVERAGE DURATION 27.8 (FY 1978)			
(CP) SKAGIT 1 & 2 (1277)	01/15/75C	10/20/78C	45.1
(CP) PILGRIM 2 (1180)	12/21/73C	01/19/79C	60.9
(CP) ERIE 1 & 2 (1200)	03/01/77C	01/25/79C	22.8
(CP) ALLENS CREEK 1 (1150)	12/07/73C	03/31/79C	63.3
(CP) NEW ENGLAND 1 & 2 (1194)	09/09/76C	07/20/79C	34.3
AVERAGE DURATION 45.4 (FY 1979)			

MARCH 31, 1980

MARCH 31, 1980

**FINAL ENVIRONMENTAL STATEMENT DURATION SUMMARY**  
 (DURATIONS FOR FES ISSUANCES FOR CP REVIEWS DURING FY 1974 - 1979)

APPLICATION	ER DOCKETED	FES SUPPL.	DURATION (MONTHS)
(CP) BEAVER VALLEY 2 (0852)	10/20/72C	07/19/73C	8.9
(CP) GRAND GULF 1 & 2 (1250)	11/17/72C	08/22/73C	9.1
(CP) LIMERICK 1 & 2 (1065)	10/30/70C	11/12/73C	36.4
(CP) CATAWBA 1 & 2 (1145)	10/27/72C	12/07/73C	13.3
(CP) MILLSTONE 3 (1156)	02/10/73C	02/07/74C	11.9
(CP) HOPE CREEK 1 & 2 (1067)	01/28/71C	02/19/74C	36.7
(CP) VOSTLE 1 & 2 (1113)	02/13/73C	03/08/74C	12.8
(CP) HARRIS 1,2,3,4 (0900)	09/07/71C	03/29/74C	30.7
(CP) FERRY 1 & 2 (1205)	06/25/73C	04/09/74C	9.4
(CP) ST LUCIE 2 (0810)	08/31/73C	05/16/74C	8.5
(CP) SURRY 3 & 4 (0859)	09/14/73C	05/31/74C	8.5
(CP) COMANCHE PEAK 1 & 2 (1150)	07/20/73C	06/07/74C	10.5
(CP) BELLEFONTE 1 & 2 (1213)	06/21/73C	06/10/74C	11.6
AVERAGE DURATION 16.0 (FY 1974)			
(CP) BRAIDWOOD 1 & 2 (1120)	09/20/73C	07/19/74C	9.9
(CP) BYRON 1 & 2 (1120)	09/20/73C	07/25/74C	10.1
(CP) RIVER BEND 1 & 2 (0934)	09/21/73C	10/02/74C	12.3
(CP) CLINTON 1 & 2 (0933)	10/30/73C	10/04/74C	11.1
(CP) ALLENS CREEK 1 (1150)	12/07/73C	11/18/74C	11.3
(CP) SEABROOK 1 & 2 (1200)	07/09/73C	12/06/74C	16.9
(CP) WASHINGTON NUCLEAR 1 (1218)	08/20/73C	03/10/75C	18.6
(CP) CALLAWAY 1 & 2 (1120)	07/30/74C	03/21/75C	7.7
(CP) SOUTH TEXAS 1 & 2 (1250)	07/05/74C	03/28/75C	8.7
(CP) PEBBLE SPRINGS 1 & 2 (1260)	08/06/74C	04/16/75C	8.3
(CP) FULTON 1 & 2 (1160)	11/14/73C	05/05/75C	17.7
(CP) PILGRIM 2 (1180)	12/21/73C	05/27/75C	17.2
(CP) SKAGIT 1 & 2 (1277)	09/30/74C	06/02/75C	8.0
(CP) WASHINGTON NUCLEAR 3&5 (1242)	09/30/74C	06/03/75C	8.1
(CP) HARTSVILLE A1,A2,B1,B2 (1233)	09/13/74C	06/25/75C	9.4
AVERAGE DURATION 11.6 (FY 1975)			
(CP) PALO VERDE 1,2,3 (1270)	10/07/74C	09/25/75C	11.6
(CP) DAVIS BESSE 2 & 3 (0906)	02/09/74C	09/29/75C	13.6
(CP) CHEROKEE 1,2,3 (1280)	06/28/74C	10/01/75C	15.1
(CP) JAMESPORT 1 & 2 (1150)	09/17/74C	10/07/75C	12.6
(CP) PERKINS 1,2,3 (1280)	06/23/74C	10/21/75C	15.7
(CP) WOLF CREEK 1 (1150)	05/17/74C	10/31/75C	17.4
(CP) STERLING 1 (1150)	12/20/74C	06/28/76C	18.2
(CP) MARBLE HILL 1 & 2 (1130)	09/11/75C	09/22/76C	12.3
AVERAGE DURATION 14.5 (FY 1976)			
AVERAGE DURATION 15.2 (CY 1976)			
(CP) CLINCH RIVER (0350)	04/11/75C	02/07/77C	21.8
(CP) BLACK FOX 1 & 2 (1150)	12/23/75C	02/08/77C	13.5
(CP) PHIPPS BEND 1 & 2 (1233)	04/01/76C	02/17/77C	10.5
(CP) MONTAGUE 1 & 2 (1150)	07/12/74C	02/22/77C	31.3
(CP) TYRONE 1 (1150)*	08/29/74C	04/28/77C	31.9
AVERAGE DURATION 21.8 (FY 1977)			
(CP) YELLOW CREEK 1 & 2 (1285)	12/20/76C	11/28/77C	11.2
AVERAGE DURATION 11.2 (FY 1978)			
(CP) SUNDESERT 1 & 2 (0974)	04/12/77C	10/24/78C	18.4
(CP) GREENE COUNTY (1191)	09/15/75C	02/07/79C	40.7
AVERAGE DURATION 29.5 (FY 1979)			

\* CANCELLED AFTER FES ISSUANCE  
 FOR CP REVIEW

# ACRS FORECAST

DATA AS OF: MARCH 31, 1980

NUCLEAR REACTOR REGULATION					STANDARDS DEVELOPMENT				
DAY	NAME	STAGE/TYPE	DOCKET NO.	ACTIVITY	DAY	TASK NO.	TYPE	ACTIVITY	
MAY					04	SD803-4	00	SC	
					07	RS901-5	00	FC	
					07	RS110-5	00	SC	
					07	SC822-5	00	SC	
					21	RS035-2	00	FC	
					23	RS810-5	00	FC	
JUN					02	EM801-4	00	FC	
					04	RS807-5	00	SC	
					04	RS809-5	00	SC	
					04	RS042-2	00	SC	
					04	RS705-4	00	SC	
					04	RS902-4	00	SC	
					07	RS705-4	00	FC	
JUL	10	SHOREHAM	OL/BWR	05000322	FC	18	RS809-5	00	FC
AUG	15	SUMMER 1	OL/PWR	05000395	SC				
SEP	05	SURQUEHANNA 1 & 2	OL/BWR	05000367	FC				
	06	SUMMER 1	OL/PWR	05000395	FC				
OCT	00	LASALLE 1 & 2	OL/BWR	06000373	FC				
	07	SAN ONOFRE 2 & 3	OL/PWR	05000361	FC				

FC=FULL COMMITTEE  
 SC=SUBCOMMITTEE  
 AFC=ADDITIONAL  
 FULL COMMITTEE

TASK # TASK DESCRIPTION

EM801-4 R.G. 1.139, "GUIDANCE FOR RESIDUAL HEAT REMOVAL"

RS035-2 QUALITY ASSURANCE PROGRAM AUDITING REQUIREMENTS FOR NUCLEAR POWER PLANTS.

RS042-2 RG 1.89- QUALIFICATION OF CLASS IE EQUIPMENT FOR NUCLEAR POWER PLANTS

RS110-5 NUCLEAR POWER PLANT SIMULATORS FOR UNION OPERATOR TRAINING

RS705-4 CRITERIA FOR LIGHTNING PROTECTION FOR NPPS

RS807-5 REV. 2 TO R.G. 1.8, PERSONNEL SELECTION AND TRAINING

RS809-5 CABLE PENETRATION FIRE STOP QUALIFICATION TEST FOR NUCLEAR POWER PLANTS

RS810-5 QUALIFICATION OF QUALITY ASSURANCE PROGRAM AUDIT PERSONNEL FOR NUCLEAR POWER PLANTS

RS901-5 REV. 1 TO R.G. 1.58, QUAL. OF NUCLEAR POWER PLANT INSPEC., EXAM. & TESTING PERSONNEL

RS902-4 REV. 3 TO R.G. 1.33, QUALITY ASSURANCE PROGRAM REQUIREMENTS (OPERATION)

SC822-5 R.G. 1.142, SAFETY RELATED CONCRETE STRUCTURES

SD803-4 REV. 2 TO R.G. 1.101-EMERGENCY PLANNING FOR NUCLEAR POWER PLANTS

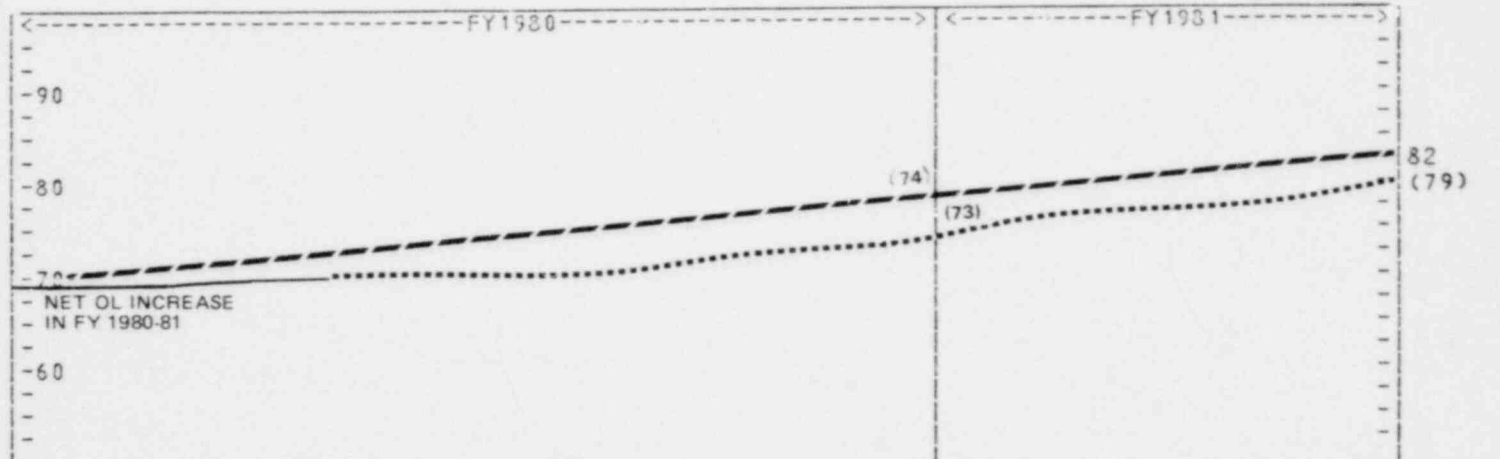
OPERATING LICENSE FORECAST:  
(CUMULATIVE LICENSED FACILITIES AND PROJECTED OL ADDITIONS IN FY 80/81)

DATA AS OF: APRIL 4, 1980

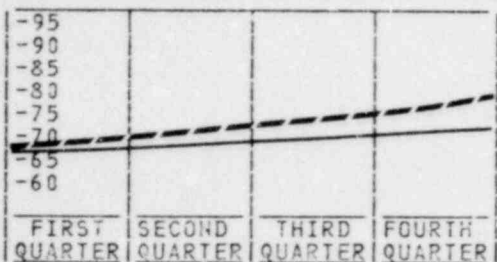
2-10

DESCRIPTION  
THIS CHART REPRESENTS  
THIS CURRENT CUMULATIVE NUMBER OF ACTUAL OPERATING LICENSE ISSUANCES (SOLID LINE) AND ESTIMATED ISSUANCES (DOTTED LINE) DURING FISCAL YEARS 1980 AND 1981, AS COMPARED TO THE PROJECTION MADE ON OCTOBER 1, 1977 (DASHED LINE). NUMBERS IN PARENTHESIS REFLECT THE LATEST ESTIMATE BEYOND THE CURRENT MONTH.

LEGEND:  
BUDGET FORECAST -----  
ACTUAL COMPLETION VS. -----  
LATEST ESTIMATE .....



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
BUDGET FORECAST BY MONTH	0	0	0	0	0	0	0	0	1	2	1	0	1	1	1	2	1	2	1	2	1	2	1	2	12
LATEST ESTIMATE BY MONTH	0	0	0	0	1	0	(0)	(1)	(0)	(1)	(0)	(0)	(1)	(1)	(1)	(2)	(1)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(9)
CUMULATIVE BUDGET FORECAST	70	70	70	70	70	70	70	70	71	73	74	74	75	76	77	79	80	82	82	82	82	82	82	82	82
CUMULATIVE LATEST ESTIMATE	70	70	70	71	71	71	(71)	(72)	(72)	(73)	(73)	(73)	(74)	(75)	(76)	(78)	(79)	(79)	(79)	(79)	(79)	(79)	(79)	(79)	(79)



SUMMARY:

As the TMI 2 studies and investigations proceed, it is likely that additional actions that must be implemented in the short-term prior to issuance of an operating license will be identified. The staff will complete the necessary reviews and report its findings related to whether such short-term actions must also be implemented prior to a decision to issue an operating license for each plant. Although no formal moratorium has been declared, the quickest that such reviews could be completed for any plant is about three months.

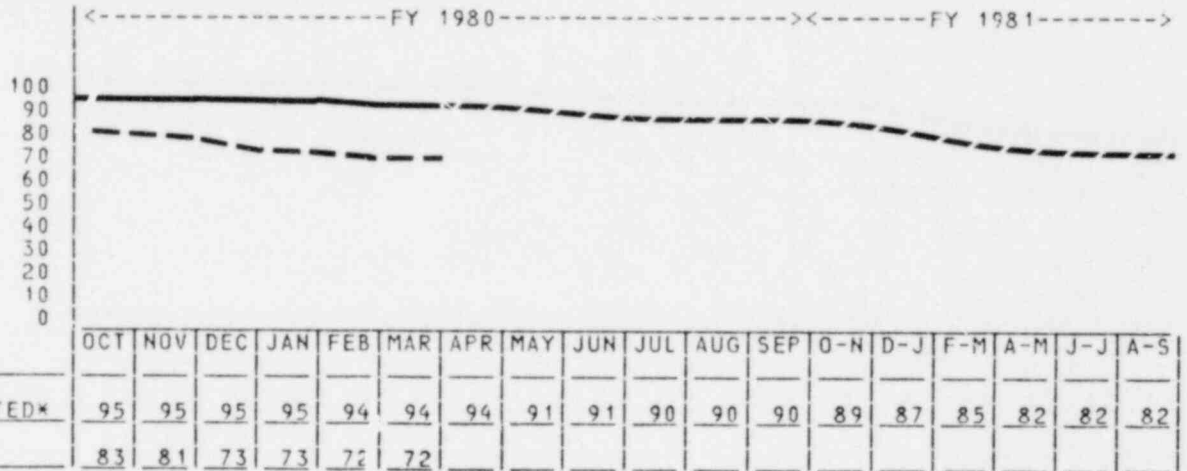
Sequoyah 1 was granted a license on 02-29-80.

APPLICATION	10-01-79 FORECAST	CONSTRUCTION COMPLETION	CURRENT ESTIMATE
FY 1980			
DIABLO CANYON 1 (1084)	N/S	05/00/80	N/S
NORTH ANNA 2 (0907)	N/S	05/00/80	05/00/80
SALEM 2 (1115)	N/S	05/00/80	N/S
FARLEY 2 (0829)	07/00/80	07/00/80	07/00/80
BEYOND FY 1980			
MCGUIRE 1 (1180)	08/00/80	11/00/80	11/00/80
LASALLE 1 (1078)	06/30/80	12/00/80	12/00/80
SUMMER 1 (0900)	04/24/81	12/00/80	04/24/81
ZIMMER 1 (0810)	07/30/80	02/00/81	02/00/81
DIABLO CANYON 2 (1106)	N/S	03/00/81	N/S
SEQUOYAH 2 (1148)	N/S	05/00/81	05/00/81
WATTS BAR 1 (1177)	12/00/80	05/00/81	N/S
SAN ONOFRE 2 (1100)	06/00/81	05/00/81	06/01/81
SHOREHAM (0819)	11/00/80	10/00/81	10/00/81
SUSQUEHANNA 1 (1050)	04/00/81	10/00/81	10/00/81
ENRICO FERMI 2 (1093)	N/S	11/00/81	11/00/81
WATERFORD 3 (1113)	09/00/81	02/00/82	02/00/82
WATTS BAR 2 (1177)	09/00/81	03/00/82	N/S
WASHINGTON NUCLEAR 2 (1100)	03/00/81	07/00/82	07/00/82

# NUCLEAR POWER PLANTS UNDER CONSTRUCTION

DATA AS OF: MARCH 31, 1980

THE SOLID BLACK LINE ON THIS CHART SHOWS THE TOTAL NUMBER OF NUCLEAR POWER PLANTS, IN UNITS, CURRENTLY AUTHORIZED CONSTRUCTION ACTIVITY (EITHER LWA OR CP). THE DOTTED LINE PLOTS FUTURE CONSTRUCTION AUTHORIZATIONS, MINUS THOSE UNITS PROJECTED TO RECEIVE AN OL AND THE DASHED LINE SHOWS UNITS ACTUALLY ENGAGED IN CONSTRUCTION.



AUTHORIZATIONS IN EFFECT AND ESTIMATED\*  
ACTUAL UNDER CONSTRUCTION\*

AUTHORIZATIONS GRANTED ——  
ACTUALLY UNDER CONSTRUCTION - - - -  
FUTURE AUTHORIZATIONS .....

LIMITED WORK AUTHORIZATION OR CONSTRUCTION PERMIT GRANTED:

\* IN UNITS  
† LWA'S & CP'S IN EFFECT

SHOREHAM	04-14-73
SOUTH TEXAS 1 & 2	08-12-75
SUMMER 1	03-21-73
SUSQUEHANNA 1 & 2	05-28-74
VOGTLE 1 & 2	06-28-74
WPPSS 1	08-01-75
WPPSS 2	03-19-73
WPPSS 4	08-01-75
WPPSS 3 & 5	04-08-77
WATERFORD 3	05-14-74
WATTS BAR 1 & 2	01-23-73
WOLF CREEK	01-24-77
YELLOW CREEK 1	02-09-78
ZIMMER 1	10-27-72

TOTAL - 72

\*AUTHORIZED BUT NOT UNDER CONSTRUCTION

FACILITY	AUTH. DATE
BLACK FOX 1 & 2	07-26-78
BRAIDWOOD 1 & 2	01-13-75
CALLAWAY 2	08-14-75
CHEROKEE 3	05-28-76
CLINTON 2	10-01-75
DAVIS BESSE 2 & 3	12-31-75
FORKED RIVER	07-10-73
HARRIS 3 & 4	01-01-74
HARTSVILLE 3 & 4	04-22-76
JAMESPORT 1 & 2	01-04-79
NORTH ANNA 3 & 4	07-26-74
PHIPPS BEND 2	10-18-77
RIVER BEND 2	09-05-75
STERLING 1	09-01-77
YELLOW CREEK 2	02-09-78

TOTAL - 22 UNITS

## ACTIVELY UNDER CONSTRUCTION

FACILITY	AUTH. DATE
BAILLY 1	05-01-74
BEAVER VALLEY 2	05-03-74
BELLEFONTE 1 & 2	09-17-74
BYRON 1 & 2	12-13-74
CALLAWAY 1	08-14-75
CATAWBA 1 & 2	05-16-74
CHEROKEE 1, 2	05-28-76
CLINTON 1	10-01-75
COMANCHE PEAK 1 & 2	10-17-74
DIABLO CANYON 1	04-23-68
DIABLO CANYON 2	12-09-70
FARLEY 2	08-16-72
FERMI 2	09-27-72
GRAND GULF 1 & 2	05-03-74
HARRIS 1, 2	01-01-74
HARTSVILLE 1 & 2	04-22-76
HOPE CREEK 1 & 2	11-04-74
LASALLE 1 & 2	09-10-73
LIMERICK 1 & 2	06-19-74
MARBLE HILL 1 & 2	08-24-77
MCGUIRE 1 & 2	02-23-73
MIDLAND 1 & 2	12-15-72
MILLSTONE 3	06-05-74
NINE MILE POINT 2	06-24-74
NORTH ANNA 2	02-19-71
PALO VERDE 1, 2 & 3	05-25-76
PERRY 1 & 2	10-21-74
PHIPPS BEND 1	10-18-77
RIVER BEND 1	09-05-75
ST. LUCIE 2	03-17-75
SALEM 2	09-25-68
SAN ONOFRE 2 & 3	10-18-73
SEABROOK 1 & 2	07-07-76
SEQUOYAH 2	05-27-70



# MONTHLY HIGHLIGHTS OF COMMERCIAL NUCLEAR POWER UNITS

FOR MONTH OF  
**FEBRUARY 1980**

## LICENSED POWER REACTORS:

NUMBER	CAPACITY <sup>1</sup> MWe (Net)
66	48,130
1	
67 <sup>2</sup>	912
1 <sup>3</sup>	49,947
	LICENSED FOR FUEL LOADING AND LOW POWER TESTING:

POWER GENERATION	REPORT MONTH	PREVIOUS MONTH	YEAR TO DATE
1. GROSS ELECTRICAL (MWe)	20,287,105	20,026,154	40,326,267
2. NET ELECTRICAL (MWe)	19,329,096	19,087,131	38,418,187
3. AVG. UNIT SERVICE FACTOR (%)	83.1	81.8	82.4
4. AVERAGE UNIT AVAILABILITY FACTOR (%)	83.1	82.0	82.5
5. AVERAGE UNIT CAPACITY FACTOR (MDC) (%)	58.4	54.8	55.5
6. AVG. UNIT CAPACITY FACTOR (DER) (%)	54.9	53.3	54.1
7. FORCED OUTAGE RATE (%)	10.4	8.5	9.8

### NOTES

<sup>1</sup> BASED UPON MAXIMUM DEPENDABLE CAPACITY. DESIGN ELECTRIC RATING USED IF MDC NOT DETERMINED.

<sup>2</sup> EXCLUDES INDIAN POINT 1 (DER - 285), HUMBOLDT BAY (DER - 85), AND THREE MILE ISLAND 2 (DER - 906) WHICH HAVE OPERATING LICENSES BUT ARE SHUTDOWN INDEFINITELY.

<sup>3</sup> SEQUOYAH 1 (DER - 1128) WAS LICENSED ON FEBRUARY 29, 1980 FOR FUEL LOADING AND LOW POWER TESTING ONLY.

THIS DATA REPRESENTS ONE MONTH ONLY.

## ACTUAL VS. POTENTIAL ENERGY PRODUCTION

		% OF POTENTIAL PRODUCTION
POTENTIAL ENERGY PRODUCTION IN THIS PERIOD BY UNITS IN COMMERCIAL OPERATION (Using Maximum Dependable Capacity Net)	33,488,552 MWh	
ENERGY ACTUALLY PRODUCED DURING THIS REPORT PERIOD -	19,331,956 MWh NET	87.2
ENERGY NOT PRODUCED DURING THIS REPORT PERIOD DUE TO SCHEDULED OUTAGES (NET)	- 8,723,005 MWh	26.1
ENERGY NOT PRODUCED DURING THIS REPORT PERIOD DUE TO FORCED OUTAGES (NET)	- 3,076,751 MWh	9.2
ENERGY NOT PRODUCED DURING THIS REPORT PERIOD FOR OTHER REASONS (NET)	- 2,337,739 MWh	7.0
TOTAL	33,488,551 MWh	100
ENERGY NOT PRODUCED THIS REPORT PERIOD DUE TO NRC IMPOSED SHUTDOWNS AND RESTRICTIONS	- 2,274,614 MWh	6.8
NUMBER OF UNITS WITH POWER RESTRICTIONS IMPOSED BY NRC	- 1	

## OUTAGE DATA

	NUMBER	HOURS	PERCENT OF CLOCK TIME	MWe LOST PRODUCTION
1. FORCED OUTAGES DURING MONTH	58	4,140.8	9.0	3,076,751
2. SCHEDULED OUTAGES DURING THE MONTH	39	12,828.7	27.8	8,723,005
3. TOTAL	97	16,969.5	36.9	11,799,757

MWe LOST PRODUCTION = Down time x maximum dependable capacity net

## DERATED UNITS

UNIT NAME	MAXIMUM DEPENDABLE CAPACITY (MWe NET)	POWER LIMIT (MWe NET)
BIG ROCK POINT 1	83	83
CALVERT CLIFFS 1	810	790
FOUNTAIN VRAIN	330	231
INDIAN POINT 2	906	834
INDIAN POINT 3	905	917
POINT BEACH 1	495	190
ROBINSON 2	2300 MWT	2200 MWT

<sup>1</sup> (Revised) See 3/27/77

# MONTHLY HIGHLIGHTS OF COMMERCIAL NUCLEAR POWER UNITS

FOR MONTH OF  
**FEBRUARY 1980**

### REASONS FOR SHUTDOWN

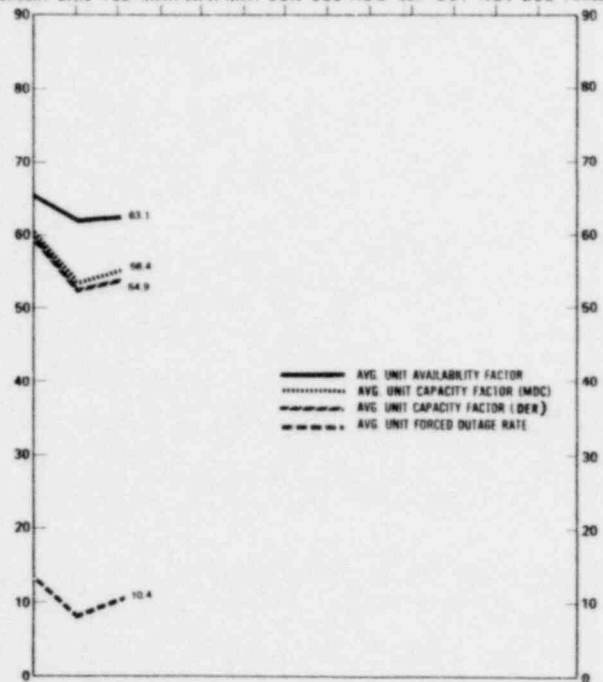
REASON	NUMBER	TOTAL HOURS LOST
A. Equipment Failure	33	1,803.1
B. Maintenance or Test	18	1,542.5
C. Refueling	15	9,115.8
D. NRC Restriction	11	3,578.0
E. Operator Training and License Examination	1	18.2
F. Administrative	0	0
G. Operational Error	9	92.7
H. Other	10	819.2
<b>TOTAL</b>	<b>97</b>	<b>18,967.5</b>

### SHUTDOWNS GREATER THAN 72 HOURS EACH

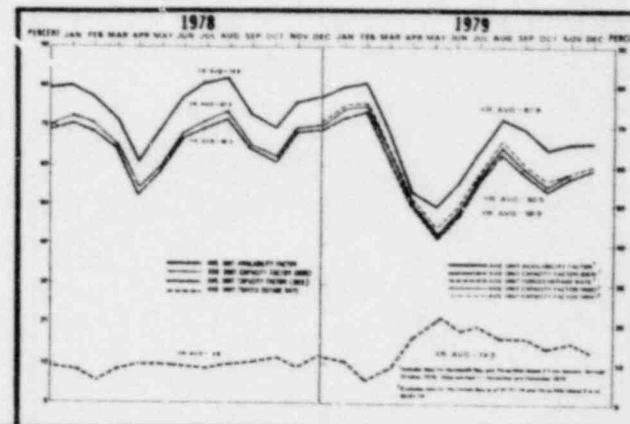
UNIT NAME	REASON	UNIT NAME	REASON
ARKANSAS 1	D	NORTH ANNA 1	H
BEAVER VALLEY 1	C	OCOFE 1	A, 2B
BROWNS FERRY 1	C	OYSTER CREEK 1	C
BROWNS FERRY 2	H	PALISADES	D
CALVERT CLIFFS 1	D	PEACH BOTTOM 3	B
CRYSTAL RIVER 3	A	PILGRIM 1	C
DAVIS BESSIE 1	A	PRAIRIE ISLAND 1	B
DRESDEN 1	C	PRAIRIE ISLAND 2	C
DRESDEN 3	C	QUAD CITIES 2	C
DIANE ARNOLD	C	RANCHO SEC 1	C
FARLEY 1	D	SAN ONOFRE 1	H
FITZPATRICK	A	SURRY 1	D
FORT CALHOUN 1	C	SURRY 2	C
FORT ST VRAIN	B	THREE MILE ISLAND 1	D
INDIAN POINT 2	A, D	TURKEY POINT 3	C
INDIAN POINT 3	C	TURKEY POINT 4	A
LA CROSSE	A	VERMONT YANKEE 1	D
MAINE YANKEE	C	YANKEE ROWE 1	D
MONTICELLO	C	ZION 1	2A

### UNIT AVAILABILITY, CAPACITY AND FORCED OUTAGE

PERCENT JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC PERCENT



### UNIT AVAILABILITY, CAPACITY AND FORCED OUTAGE



### REFUELING SCHEDULE

Please refer to the table on page 3-6 for the scheduled refueling date for each nuclear powerplant in this publication.

**SECTION III -**

**NUCLEAR MATERIALS**

NMSS APPLICATIONS FORECAST  
FY 1980/81

DATA AS OF : 03-07-80

APPLICANT	LOCATION	FAC. TYPE	APPL. TYPE	BUDGET ESTIMATE SUBMITTAL DATE	CURRENT ESTIMATE SUBMITTAL DATE	PROJECT MANAGER(S)
ANACONDA COPPER CO.	MCMULLEN CO., TX	UM	NA	N/S	02-12-80C	G. WU
CONOCO		UM	NA	FY80	FY80	
PATHFINDER MINES		UM	NA	FY80	FY80	
KERR-MCGEE (SPRB)		UM	NA	FY80	FY80	
UNITED NUCLEAR		UM	AM	FY80	FY80	
ATLAS MINERAL CORP.		UM	AM	FY80	FY80	
FED. - AMER. PARTNERS		UM	AM	FY80	FY80	
PLATEAU RESOURCES		UM	AM	FY80	FY80	
RIO ALGOM		UM	AM	FY80	FY80	
UNION CARBIDE, RMEC		UM	NA	FY81	FY81	
AMERICAN NUCLEAR CORP.		UM	NA	FY81	FY81	
CLEVELAND CLIFFS		UM	NA	FY81	FY81	
STANDARD METALS		UM	NA	FY81	FY81	
RMEC		UM	NA	FY81	FY81	
ENERGY FUELS NUCLEAR		UM	AM	FY81	FY81	
UNION CARBIDE		UM	AM	FY81	FY81	
PETROTOMICS		UM	RN	FY81	FY81	
COTTER CORP.		UOP	NA	FY80	FY80	
KERR-MCGEE CORP.		UOP	NA	FY80	FY80	
ADOBE OIL & GAS		UOP	NA	FY81	FY81	
RMEC (R & D HL)		UOP	NA	FY81	FY81	
MINERALS EXPLORATION		UOP	NA	FY81	FY81	
TETON EXPLORATION		ISL	NA	FY80	FY80	
EXXON		ISL	NA	FY81	FY81	
NUCLEAR DYNAMICS		ISL	NA	FY81	FY81	
RMEC (RENO)		ISL	NA	FY81	FY81	
MINERALS EXPLORATION		ISL	NA	FY81	FY81	
WYOMING MINERALS		ISL	AM	FY81	FY81	

NMSS APPLICATIONS FORECAST  
FY 1980/81

DATA AS OF : 03-07-80

APPLICANT	LOCATION	FAC. TYPE	APPL. TYPE	BUDGET ESTIMATE SUBMITTAL DATE	CURRENT ESTIMATE SUBMITTAL DATE	PROJECT MANAGER(S)
AMERICAN NUCLEAR CORP.		OSR	NA	FY80	FY80	
AMOCO MINERALS		OSR	NA	FY80	FY80	
RMEC (NML)		OSR	AM	FY80	FY80	
RMEC (RENO)		OSR	AM	FY80	FY80	
MINERALS EXPLORATION		OSR	RN	FY80	FY80	
RMEC (NML)		OSR	RN	FY80	FY80	
AMERICAN NUCLEAR CO.P.		OSR	NA	FY81	FY81	
NUCLEAR DYNAMICS		OSR	NA	FY81	FY81	
TEYON EXPLORATION		OSR	NA	FY81	FY81	
URANIUM RESOURCES		OSR	NA	FY81	FY81	
WYOMING MINERAL		OSR	NA	FY81	FY81	
COTTER CORP.		OSR	RN	FY81	FY81	
EXXON		OSR	RN	FY81	FY81	
WESTINGHOUSE	PRATTVILLE, AL	UFF	NA	FY80	12-20-79C	STEVENSON/SHUM
GENERAL ELECTRIC	WILMINGTON, NC	UFF	AM	FY80	01-02-80C	STEVENSON/SHUM
GENERAL ELECTRIC	WILMINGTON, NC	UFF	AM	N/S	01-08-80C	STEVENSON/SHUM
COMBUSTION ENGINEERING	WINDSOR, CT	UFF	AM	FY80	FY80	
TEXAS INSTRUMENTS		UFF	AM	FY80	FY80	
UNITED NUCLEAR	WOOD RIVER JCT, RI	UFF	AM	FY80	FY80	
UNITED NUCLEAR	WOOD RIVER JCT, RI	UFF	AM	FY80	FY80	
UNITED NUCLEAR	WOOD RIVER JCT, RI	UFF	AM	FY80	FY80	
UNIDENTIFIED #2		UFF	AM	FY80	FY80	
BABCOCK & WILCOX	LYNCHBURG, VA	UFF	AM	FY80	FY80	
WESTINGHOUSE	WALTZ MILL, PA	UFF	RN	FY80	FY80	
COMBUSTION ENGINEERING	WINDSOR, CT	UFF	AM	FY81	FY81	
UNITED NUCLEAR CORP.	UNCASVILLE, CT	UFF	AM	FY81	FY81	
UNIDENTIFIED #3		UFF	AM	FY81	FY81	
UNIDENTIFIED #4		UFF	AM	FY81	FY81	
UNIDENTIFIED #5		UFF	AM	FY81	FY81	
UNIDENTIFIED #6		UFF	AM	FY81	FY81	
UNIDENTIFIED #7		UFF	AM	FY81	FY81	
EMERGENCY PLANNING #1		UFF	AM	FY81	FY81	
EMERGENCY PLANNING #2		UFF	AM	FY81	FY81	
EMERGENCY PLANNING #3		UFF	AM	FY81	FY81	

CONTINUED ON NEXT PAGE

NMSS APPLICATIONS FORECAST  
FY 1980/81

DATA AS OF : 03-07-80

APPLICANT	LOCATION	FAC. TYPE	APPL. TYPE	BUDGET ESTIMATE SUBMITTAL DATE	CURRENT ESTIMATE SUBMITTAL DATE	PROJECT MANAGER(S)	
EMERGENCY PLANNING #4	COLUMBIA, S.C.	UFF	AM	FY81	FY81		
EMERGENCY PLANNING #5		UFF	AM	FY81	FY81		
EMERGENCY PLANNING #6		UFF	AM	FY81	FY81		
EMERGENCY PLANNING #7		UFF	AM	FY81	FY81		
EMERGENCY PLANNING #8		UFF	AM	FY81	FY81		
CLEAN AIR ACT #1		UFF	AM	FY81	FY81		
CLEAN AIR ACT #2		UFF	AM	FY81	FY81		
CLEAN AIR ACT #3		UFF	AM	FY81	FY81		
CLEAN AIR ACT #4		UFF	AM	FY81	FY81		
WESTINGHOUSE		UFF	AM	FY81	FY81		
EXXON NUCLEAR CORP.		UFF	AM	FY81	FY81		
UNITED NUCLEAR		WOOD RIVER JCT. RZ	UFF	RN	FY81		FY81
BABCOCK & WILCOX		LYNCHBURG, VA	UFF	RN	FY81		FY81
COMBUSTION ENGINEERING		WINDSOR, CT	UFF	RN	FY81		FY81
GENERAL ATOMIC	WILMINGTON, NC	UFF	RN	FY81	FY81		
GENERAL ELECTRIC		UFF	RN	FY81	FY81		
KERR-MCGEE	COLUMBUS, OH RICHLAND, WA	PURD	AM	FY80	FY80		
BATTELLE MEM. LABS.		PURD	AM	FY81	FY81		
EXXON NUCLEAR CORP.		PURD	AM	FY81	FY81		
KERR-MCGEE	SEQUOYAH, OK	UF6	AM	FY80	FY80		
KERR-MCGEE		UF6	AM	FY81	FY81		
KERR-MCGEE		UF6	AM	FY81	FY81		
ALLIED							
CHEM-NUCLEAR SYSTEMS	BARNWELL, SC	WASTE	RN	N/S	12-29-79C	K. DRAGONETTE	
SAVANNAH RIVER		WASTE	NA	FY81	FY81		
DOE ISFSI (A)		SFS	NA	FY81	FY81		
DOE ISFSI (B)		SFS	NA	FY81	FY81		
TRANSPORTATION FORECAST	WILL BE INCLUDED	IN THE	NEXT	ISSUE.			

N - New Application  
A - Amendment  
R - Renewal  
UOP - Uranium Ore Processing  
SM - Solution Mining  
OSR - Other Solution Recovery  
UFF - Uranium Fuel Fabrication  
PURD - Plutonium R&D and Pilot Facility  
LFE - LFE Production  
SFS - Spent Fuel Storage  
HLWR - High Level Waste Repository  
LLW - Low Level Waste Disposal Site  
TRP - Transportation Review  
UM - Uranium Mill

# IN-HOUSE MAJOR CASE REVIEW SCHEDULING

UPDATED BIMONTHLY

IN-HOUSE MAJOR CASE REVIEW SCHEDULING

DATA AS OF: MARCH 7, 1980

APPLICANT	LOCATION	FACILITY TYPE	APPL TYPE	APPL REC'D	CURRENT CASE COMPLETION DATE
URANIUM MILLING					
NEW APPL					
GULF MINERAL RES. CO.	MCKINLEY CO, NM	U-MILL	NA	09-78	05-02-80
PHILLIPS URANIUM CORP.	NOSE ROCK, NM	U-MILL	NA	12-78	N/S
PIONEER URAVAN, INC.	SAN MIGUEL CO., CO	U MILL	NA	06-79	04-18-80
KERR-MCGEE CORP.	CONVERSE CO., WY	U-MILL	NA	08-77	N/S
MARTIN-TROST ASSOC.	KERN CO., CA	U-MILL	NA	09-79	N/S
CYPRUS MINES CORP.	FREMONT CO., CO	U-MILL	NA	08-79	04-28-80
ANACONDA COPPER CO.	MCMULLEN CO., TX	U-MILL	NA	02-80	N/S
HOMESTAKE MINING CO.	SAN JUAN CO., WY	U-MILL	NA	02-80	N/S
RENEWALS & MAJOR MOD					
FEDERAL-AMER. PTNRS.	RIVERTON, WY.	U-MILL	RN	03-78	N/S
EXXON MINERALS	CONVERSE CO., WY	U-MILL	RN	07-78	N/S
UNION CARBIDE	GAS HILLS, WY	U-MILL	RN	03-76	05-02-80
WESTERN NUCLEAR	JEFFREY CITY, WY	U-MILL	RN	04-73	03-31-80
UNION CARBIDE	MONTROSE CO., CO	U-MILL	Rn	02-79	N/S
PINAL MINERALS & MINING, LTD.	GILA CO., AZ	U-MILL	RN	09-79	N/S
DAWN MINING CO.	FORD, WA.	U-MILL	RN	09-79	N/S
AMENDMENTS					
BEAR CREEK URANIUM	CONVERSE CO., WY	U-MILL	AM	09-78	04-25-80
TENNESSEE VALLEY AUTH.	EDGEMONT, SD	U-MILL	AM	01-79	N/S
COTTER CORP	FREMONT CO., CO	U-MILL	AM	01-79	03-25-80
FUEL STORAGE					
NEW APPL					
LONG ISLAND LIGHTING CO	SUFFOLK COUNTY, NY	FUEL STORAGE	NA	09-78	N/S
SOUTH CAL. EDISON & SAN DIEGO GAS & ELEC	ROSEMEND, CA	FUEL STORAGE	NA	07-78	N/S
AMENDMENTS					
DUKE POWER COMPANY	MECKLENBERG CO., NC	STORAGE	AM	03-78	N/S
GENERAL ELECTRIC	MORRIS, IL	CAP. INCREASE	AM	05-77	N/S
RENEWALS					
GENERAL ELECTRIC	MORRIS, IL	OPERATION	RN	02-79	N/S

IN-HOUSE MAJOR CASE REVIEW SCHEDULING  
UPDATED BIMONTHLY

APPLICANT	LOCATION	FACILITY TYPE	APPL TYPE	APPL REC'D	CURRENT CASE COMPLETION DATE
IN-SITU MINING					
NEW APPL ROCKY MTN. ENERGY PLATEAU RESOURCES LTD KERR-MCGEE CORP. OGLE PETROLEUM, INC.	NATRONA, WY	IN-SITU	NA	02-79	N/S
	GARFIELD CO.,	R&D	NA	08-78	05-16-80
	CONVERSE CO., WY	IN-SITU	NA	06-79	03-10-80
	FREMONT CO., CO	IN-SITU	NA	08-79	07-18-80
RENEWALS WYOMING MINERALS	JOHNSON CO., WY	IN-SITU	RN	06-79	N/S
AMENDMENTS WYOMING MTHERALS	JOHNSON CO., WY	IN-SITU	AM	09-79	04-08-80
URANIUM FUEL FAB					
NEW APPL WESTINGHOUSE	PRATTVILLE, AL	UFFP	NA	12-79	N/S
RENEWALS & MAJOR MOD BABCOCK & WILCOX LYNCHBURG RES. CENTER EXXON NUCLEAR CO. BATTELLE NORTHWEST LABS TEXAS INSTRUMENTS, INC	LYNCHBURG, VA	UFFP	RN	12-78	05-30-80
	RICHLAND, WA	UFFP	RN	06-79	07-02-80
	RICHLAND, WA	UFFP	RN	06-79	06-25-80
	ATTLEBORO, MA	UFFP	RN	02-79	10-17-80
AMENDMENTS UNITED NUCLEAR UNITED NUCLEAR COMBUSTION ENGINEERING GENERAL ATOMIC CO. GENERAL ELECTRIC GENERAL ELECTRIC	UNCASVILLE, CT	UFFP	AM	09-78	03-31-80
	UNCASVILLE, CT	UFFP	AM	04-78	03-28-80
	HEMATITE, MO	UFFP	AM	04-78	N/S
	SAN DIEGO, CA	UFFP	AM	11-78	06-01-80
	WILMINGTON, NC	UFFP	AM	01-80	10-10-80
	WILMINGTON, NC	UFFP	AM	01-80	04-13-81
KERR-MCGEE	WEST CHICAGO, IL	UFFP	EIS	08-79	N/S
PLUTONIUM FUEL FAB					
RENEWALS & MAJOR MOD BATTELLE COLUMBUS LAB. GENERAL ELECTRIC WESTINGHOUSE	COLUMBUS, OH	FFP	RN	01-74	N/S
	VALLECITOS, CA	R&D	RN	08-71	N/S
	CHESWICK, PA	PF&DL	RN	12-74	03-21-80
AMENDMENTS GENERAL ELECTRIC EXXON NUCLEAR ATOMICS INT'S. BATTELLE MEM. INST.	VALLECITOS, CA	PU R&D	AM		04-18-80
	RICHLAND, WA	PU R&D	AM		05-16-80
	CANOGA PARK, CA	PU R&D	AM		06-13-80
	COLUMBUS, OH	PU R&D	AM		08-22-80
NON-CASE & OTHER					
GEIS ON URANIUM MILLING NUCLEAR FUEL SERVICES	N/A WEST VALLEY, NY	N/A N/A		08-75	10-24-80 08-00-80



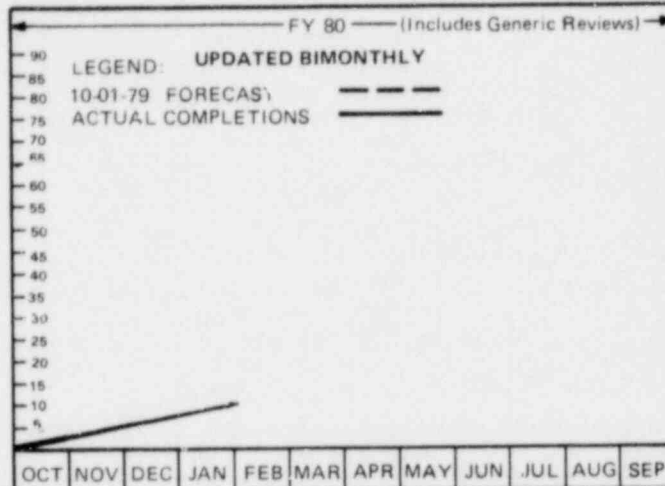
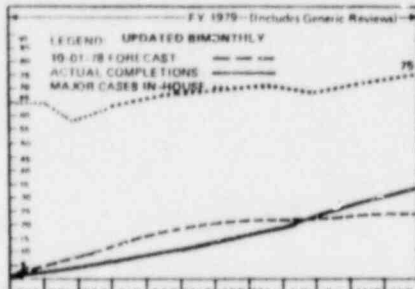
IN-HOUSE MAJOR CASE REVIEW SCHEDULING  
 UPDATED BIMONTHLY

APPLICANT	LOCATION	FACILITY TYPE	APPL TYPE	APPL REC'D	CURRENT CASE COMPLETION DATE
DOE, S-6213	WASHINGTON, DC	TRANSPORTATION	NA	07-78	04-30-80
DOE S 2 W/ S 2 W A	WASHINGTON, DC	-	NA	04-76	N/S
DOE, ANL-402-SPM	CHICAGO, IL	-	NA	12-77	N/S
DOE, ORNL LOOP	OAK RIDGE, IN	-	NA	07-78	05-31-80
DOE, ANL-390-SPM	CHICAGO, IL	-	NA	12-77	N/S
NUCLEAR PACKAGING T-3 SPENT FUEL CASK	TACOMA, WA	-	NA	10-78	04-30-80
NUCLEAR ASSURANCE CORP. NAC-3K SPENT FUEL CASK	ATLANTA, GA	-	NA	12-78	N/S
		LOW LEVEL WASTE			
NUCLEAR ENGINEERING	SHEFFIELD, IL	WASTE BURIAL	RN/AM	08-68	N/S
SOUTHWEST NUCLEAR, INC.	LYONS, KS	WASTE BURIAL	NA	09-78	N/S
CHEM-NUCLEAR SERVICES	BARNWELL, SC	WASTE BURIAL	RN	12-79	N/S

U-MILLS	
New Applications.....	7
Renewals.....	7
Amendments.....	4
FUEL STORAGE	
New Applications.....	2
Renewals.....	1
Amendments.....	3
IN-SIU	
New Applications.....	5
Renewals.....	1
Amendments	1
URANIUM FUEL FAB	
New Applications.....	1
Renewals.....	4
Amendments.....	7
PLUTONIUM FUEL FAB	
Renewals.....	3
Amendments.....	4
NON-CASE.....	2
TRANSPORTATION.....	8
LOW LEVEL WASTE.....	3
SAFEGUARDS.....	3
TOTAL.....	66

# NMSS MAJOR CASEWORK

## MAJOR CASEWORK: COMPLETIONS DATA AS OF: MARCH 7, 1980



CUMULATIVE BUDGET FORECAST BY MONTH	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
NEW APPLICATIONS	2	1			2	2		1	5		7	1
RENEWALS	1				1		1					
MAJOR MODIFICATIONS												
AMENDMENTS			1	1	1		3		1	1	1	
TRANSPORTATION REVIEWS											1	1
GENERIC & OTHER					1	1						
CUMULATIVE TOTAL	3	4	5	7	12	14	18	19	25	27	31	32

CUMULATIVE BUDGET FORECAST BY MONTH	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
NEW APPLICATIONS	2			1								
RENEWALS												
MAJOR MODIFICATIONS			1									
AMENDMENTS		4	1									
TRANSPORTATION REVIEWS												
GENERIC & OTHER		1										
CUMULATIVE TOTAL	2	7	9	10	10	10						

### COMPLETIONS

DESCRIPTION:  
 THIS CHART SHOWS THE NUMBER OF MAJOR CASEWORK COMPLETIONS ESTIMATED TO BE COMPLETED BY MONTH AND ACTUAL COMPLETIONS BY MONTH AND TYPE OF REQUEST.

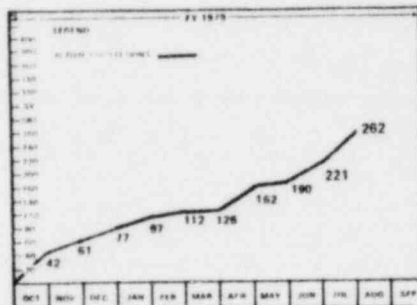
APPLICANT	LOCATION	FACILITY TYPE	COMPLETED	LICENSE TYPE
GENERAL ATOMICS	SAN DIEGO, CA	TRANS.	10-15-79	NL
NL INDUSTRIES	WILMINGTON, DE	TRANS.	10-12-79	NL
GATES & FOX CORP.	NATURITA, CO	U-MILL	11-05-79	NC
WESTINGHOUSE	CHESNICK, PA	PUFFP	11-06-79	AL
COMBUSTION ENGINEERING	WINDSOR, CT	UFFP	11-09-79	AL
COMBUSTION ENGINEERING	HEMATITE, MO	UFFP	11-09-79	AL
ATLAS MINERALS	MCAB, UT	U-MILL	11-23-79	AL
NUCLEAR ENGINEERING CO.	HANFORD, WA	LLW	12-04-79	RN
UNITED NUCLEAR CORP.	WOOD R. JCT, RI	UFFP	12-10-79	AL
TETON EXPLORATION	CONVERSE CO., WY	SOL	01-08-80	NL

KEY  
 NL = NEW LICENSE  
 RL = RENEWAL LICENSE  
 AL = AMENDED LICENSE  
 NC = NON CASE  
 TL = TERMINATED LICENSE

# NMSS MINOR CASEWORK

## MINOR CASEWORK: COMPLETIONS

DATA AS OF MARCH 7, 1980



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
COMPLETED	26	33	35	54	84	78	105	119	137	158		
COMPLETED SAFEGUARDS (CUMULATIVE)	18	28	44	43	48	50	57	71	84	104		

LEGEND		FY 80											
ACTUAL COMPLETIONS		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
COMPLETED													
COMPLETED FCMS (CUMULATIVE)													
COMPLETED SAFEGUARDS (CUMULATIVE)													

### DESCRIPTION

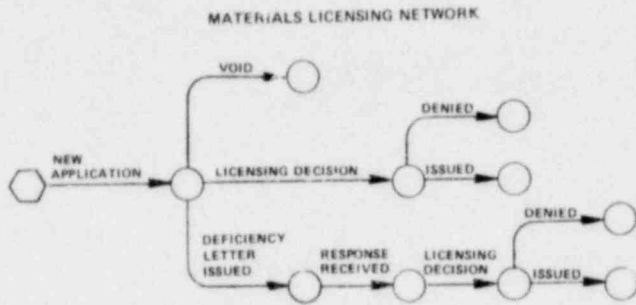
THIS CHART SHOWS THE NUMBER OF MINOR CASEWORK COMPLETIONS ESTIMATED TO BE COMPLETED BY MONTH AND ACTUAL COMPLETIONS

COMPLETED
COMPLETED FCMS (CUMULATIVE)
COMPLETED SAFEGUARDS (CUMULATIVE)

DATA UNAVAILABLE

NOTE: Data unavailable due to conversion of NMSS Internal MIS.

# NMSS - MATERIALS LICENSING DATA



## GLOSSARY OF TERMS

**AMENDMENT** - Major addition or change to existing license.

**DEFICIENCY LETTER** - Letter sent to applicant indicating that information required to process license is either incomplete or erroneous.

**DENIAL** - License application denied.

**NEW APPLICATION** - Initial licensing application.

**RENEWAL** - Resubmission after five years to reevaluate licensee program.

**VOID** - Amendment application deemed unnecessary because requested change is already covered in existing license.

## END OF MONTH INVENTORY Data as of: March 31, 1980

(PENDING DEFICIENCY LETTERS NOT INCLUDED)

-----FY-1980----->

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
> 90 DAYS	268	262	293	297	293	279						
60 TO 89 DAYS	113	96	110	108	73	80						
30 TO 59 DAYS	156	171	181	142	120	111						
< 30 DAYS	485	530	554	509	473	587						
TOTAL	1022	1083	1138	1056	256	1057						

## APPLICATIONS > 90 DAYS

-----FY-1980----->

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
NEW APPLICATIONS	7	5	8	10	4	1						
AMENDMENTS	21	18	29	22	21	14						
RENEWALS	240	263	256	265	268	264						
TOTAL	268	286	293	297	293	279						

# NMSS - MATERIALS LICENSING DATA

## APPLICATIONS RECEIVED

Data as of: March 31, 1980

<-----FY-1980----->

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FY-80 TOTAL
NEW APPLICATIONS	83	65	72	68	63	76							427
AMENDMENTS	328	303	301	330	315	330							1907
RENEWALS	82	68	75	83	50	82							440
RESPONSES TO DEFICIENCY REQUESTS	160	143	120	138	171	138							870
TOTAL	653	579	568	619	599	626							3644

## LICENSING ACTIONS COMPLETED (APPLICATIONS LICENSED)

<-----FY-1980----->

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FY-80 TOTAL
NEW APPLICATIONS	47	50	41	62	73	57							330
AMENDMENTS	228	197	186	269	275	228							1383
RENEWALS	70	51	69	86	75	65							416
TOTAL	345	298	296	417	423	350							2129
DEFICIENCY REQUESTS	214	199	178	238	230	198							1257
VOIDS	40	47	40	47	44	44							262

## MONTHLY SUMMARY

<-----FY-1980----->

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FY-80 TOTAL
BEGINNING OF MONTH INVENTORY	967	1022	1083	1138	1056	997							6263
INPUT	654	605	569	620	600	654							3702
OUTPUT	599	544	514	702	697	592							3648
END OF THE MONTH INVENTORY	1022	1083	1138	1056	959	1059							6317

# NMSS - MATERIALS LICENSING DATA

## TOTAL TURN AROUND TIME

Data as of: March 31, 1980

DESCRIPTION:  
TOTAL IN-HOUSE TIME  
FROM RECEIPT OF APP-  
PLICATION TO COMPLETION  
OF LICENSING ACTION DOES  
NOT INCLUDE APPLICANT  
TIME RESPONDING TO DE-  
FICIENCY LETTERS.

←-----FY-1980----->

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
> 90 DAYS	117	84	103	148	168	103						
60 TO 89 DAYS	41	35	41	45	45	44						
30 TO 59 DAYS	66	88	63	101	79	87						
< 30 DAYS	121	91	89	123	131	116						
TOTAL COMPLETED	345	298	296	417	423	350						
COMPOSITE AVERAGE TIME	95	77	98	103	104	84						

## NEW APPLICATIONS TURN AROUND TIME

←-----FY-1980----->

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
> 90 DAYS	22	14	12	24	23	14						
60 TO 89 DAYS	6	6	6	6	11	8						
30 TO 59 DAYS	8	18	11	13	20	15						
< 30 DAYS	11	12	12	19	19	20						
TOTAL	47	50	41	62	73	57						
AVERAGE TURNAROUND TIME	97	67	67	83	78	58						

## AMENDMENTS TURN AROUND TIME

←-----FY-1980----->

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
> 90 DAYS	50	36	48	64	95	52						
60 TO 89 DAYS	27	24	30	32	23	25						
30 TO 59 DAYS	45	60	45	76	50	61						
< 30 DAYS	106	77	63	97	107	90						
TOTAL	228	197	186	269	275	228						
AVERAGE TURNAROUND TIME	73	59	79	72	83	62						

# NMSS - MATERIALS LICENSING DATA

TURN AROUND TIME  
RENEWALS

Data as of: March 31, 1980

DESCRIPTION:

TOTAL IN-HOUSE TIME  
FROM RECEIPT OF APP-  
PLICATION TO COMPLETION  
OF LICENSING ACTION DOES  
NOT INCLUDE APPLICANT  
TIME RESPONDING TO DE-  
FICIENCY LETTERS.

<-----FY-1980----->

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
> 90 DAYS	45	34	43	60	50	37						
60 TO 89 DAYS	8	5	5	7	11	11						
30 TO 59 DAYS	13	10	7	12	9	11						
< 30 DAYS	4	2	14	7	5	6						
TOTAL	70	51	69	86	75	65						
AVERAGE TURNAROUND TIME	164	159	169	211	203	181						

**SECTION IV -**

**STANDARDS AND REGULATIONS**



# PROGRAM OVERVIEW TASK WORKLOAD STATUS

JANUARY 1, 1980 TO MAY 31, 1980

	TOTAL ACTIVE TASKS APPEARING IN LAST GREEN BOOK	NEW TASKS ADDED OR TASKS OUT OF HOLD	TASKS COMPLETED OR TASKS INTO HOLD	TASKS DELETED	TOTAL ACTIVE TASKS APPEARING IN THIS MONTH'S GREEN BOOK	TASKS SCHEDULED TO BE COMPLETED
ENGINEERING METHODOLOGY STANDARDS	4	0	0	0	4	0
ENVIRONMENTAL STANDARDS	5	0	1	0	4	1
FUEL PROCESS SYSTEM STANDARDS	9	4	0	0	13	0
MATERIALS PROTECTION STANDARDS	5	0	1	0	4	1
OCCUPATIONAL HEALTH STANDARDS	22	0	0	0	22	0
PROGRAM SUPPORT	0	0	0	0	0	0
REACTOR SYSTEMS STANDARD	12	5	1	0	16	0
SITE DESIGN STANDARDS	5	0	0	0	5	1
SAFEGUARDS	4	0	0	0	4	2
SITE SAFETY STANDARDS	8	1	0	0	9	0
STRUCTURES & COMPONENTS STANDARDS	17	0	2	0	15	0
TRANSPORTATION & PRODUCT STANDARDS	19	0	2	0	17	3
RADIOLOGICAL HEALTH	3	1	0	0	3	0
<<< TOTALS >>>	113	11	7	0	116	8

116 TOTAL NO. OF ACTIVE TASKS IN CURRENT EDITION OF GREEN BOOK

## REGULATORY GUIDES

### OCTOBER

		DRAFT GUIDE	ACTIVE GUIDE
RG 1.137/RS 070-4 REV. 1	"FUEL-OIL SYSTEMS FOR STANDBY DIESEL GENERATORS"		X
RG 8.21 /OH 707-4 REV. 1	"HEALTH PHYSICS SURVEYS FOR BYPRODUCT MATERIAL AT NRC-LICENSED PROCESSING & MANUFACTURING PLANTS"		X
RG 8.24 /OH 709-4 REV. 1	"HEALTH PHYSICS SURVEYS DURING ENRICHED URANIUM -- 235 PROCESSING AND FUEL FABRICATION"		X
RG 1.143/FP 615-4 REV. 1	"DESIGN GUIDANCE FOR RADIOACTIVE WASTE MANAGEMENT SYSTEMS, STRUCTURES, AND COMPONENTS INSTALLED IN LIGHT-WATER-COOLED NUCLEAR POWER PLANTS"		X
DRAFT SG 901-4	"REPORTING OF SAFEGUARDS EVENTS"	X	
RG 1.140/FP 601-4	"DESIGN, TESTING & MAINTENANCE CRITERIA FOR EXHAUST FILTRATION & ADSORPTION UNITS"		X

### NOVEMBER

DRAFT OH 905-4	CALIBRATION OF AIR SAMPLING INSTRUMENTS FOR TOTAL VOLUME OF AIR SAMPLED	X	
DRAFT SC 814-5	PROPOSED REVISION 2 TO REGULATORY GUIDE 1.136, "MATERIALS, CONSTRUCTION, AND TESTING OF CONCRETE CONTAINMENTS (ARTICLES CC-1000, -2000, AND -4000 THROUGH -7000 OF THE 'CODE FOR CONCRETE REACTOR VESSELS AND CONTAINMENTS')"	X	

### DECEMBER

RG 1.97, RS 917-4 REV. 2 (PROPOSED)	"INSTRUMENTATION FOR LIGHT-WATER-COOLED NUCLEAR POWER PLANTS TO ASSESS PLANT AND ENVIRONMENTAL CONDITIONS DURING AND FOLLOWING AN ACCIDENT"	X	
RG 1.9, RS 710-5 REV. 2	"SELECTION, DESIGN, AND QUALIFICATION OF DIESEL- GENERATOR UNITS USED AS STANDBY (ONSITE) ELECTRIC POWER SYSTEMS AT NUCLEAR POWER PLANTS"		X

### JANUARY

5.59/MP-711-4	"STANDARD FORMAT AND CONTENT FOR A LICENSEE PHYSICAL SECURITY PLAN FOR THE PROTECTION OF SNM OF MODERATE OR LOW STRATEGIC SIGNIFICANCE"		X
TP 914-4	"MEASUREMENT OF RADIATION LEVELS ON SURFACES OF PACKAGES OF RADIOACTIVE MATERIALS"	X	
FP 925-5	"NUCLEAR CRITICALITY SAFETY FOR PIPE INTERSECTIONS CONTAINING AQUEOUS SOLUTIONS OF ENRICHED URANYL NITRATE"	X	

### FEBRUARY

RG 7.9/ TP 502-4 REV. 1	"STANDARD FORMAT AND CONTENT OF PART 71 APPLICATIONS FOR APPROVAL OF PACKAGING OF TYPE B, LARGE QUANTITY, AND FISSILE RADIOACTIVE MATERIAL"		X
RG 5.58/ MP 801-4 REV. 1	"CONSIDERATIONS FOR ESTABLISHING TRACEABILITY OF SNM ACCOUNTING MEASUREMENTS"		X

**REGULATORY GUIDES**  
(CONTINUED)

MARCH

DRAFT  
GUIDE

ACTIVE  
GUIDE

RG 8.14/ OH 940-4      PROPOSED REV. 2, "PERSONNEL NEUTRON DOSIMETERS"

X

**TASKS COMPLETED**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Draft Guides Issued	1	2	1	2	0	1						
Active Guides Issued	5	0	1	1	2	0						

## ANSI STANDARDS PUBLISHED

OCTOBER	ANSI/ASME NQA-1 1979	QUALITY ASSURANCE PROGRAM REQUIREMENTS FOR NUCLEAR POWER PLANTS
	ANSI/ASME N45.2.20 1979	SUPPLEMENTARY QUALITY ASSURANCE REQUIREMENTS FOR SUBSURFACE INVESTIGATIONS FOR NUCLEAR POWER PLANTS
	ANSI/ANS 15.18 1979	ADMINISTRATIVE CONTROLS FOR RESEARCH REACTORS
	ANSI/ANS 55.4 1979	GASEOUS RADIOACTIVE WASTE PROCESSING SYSTEMS FOR LIGHT WATER REACTOR PLANTS
DECEMBER	ANSI/ANS 3.7.2 1979	EMERGENCY CONTROL CENTERS FOR NUCLEAR POWER PLANTS
	ANSI/ANS 3.7.1 1979	FACILITIES AND MEDICAL CARE FOR ON-SITE NUCLEAR POWER PLANT RADIOLOGICAL EMERGENCIES
	ANSI/ANS 59.4 1979	LIGHT WATER NUCLEAR POWER PLANT FIRE PROTECTION, GENERIC REQUIREMENTS FOR
	ANSI/ANS 3.7.3 1979	RADIOLOGICAL EMERGENCY PREPAREDNESS EXERCISES FOR NUCLEAR POWER PLANTS
	ANSI/ANS 55.6 1979	LIQUID RADIOACTIVE WASTE PROCESSING SYSTEM FOR LIGHT WATER REACTOR PLANTS
	ANSI/ANS 55.1 1979	SOLID RADIOACTIVE WASTE PROCESSING SYSTEM FOR LIGHT WATER COOLED REACTOR PLANTS
FEBRUARY	ANSI/IEEE 485 1975	SIZING LARGE LEAD STORAGE BATTERIES FOR GENERATING STATIONS AND SUBSTATIONS, RECOMMENDED PRACTICE FOR.

### TASKS COMPLETED

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
ANSI Standards Published	4	0	6	0	1	0						

## NUREG REPORTS

OCTOBER CR-0510 "DURESS ALARMS FOR NUCLEAR FIXED SITE FACILITIES"  
MP 672-7

CR-0956 "COMMENTARY ON SPENT FUEL STORAGE AT MORRIS OPERATION"  
FP 712-9

NOVEMBER CR-1102 "A SYSTEMATIC ASSESSMENT OF THE SAFEGUARDS REGULATIONS"  
(3 VOLS.) MP 750-7

CR-0485 "VEHICLE ACCESS & SEARCH TRAINING MANUAL"  
MP 761-7

CR-0484 "VEHICLE ACCESS & CONTROL PLANNING DOCUMENT"  
MP 761-7

CR-0509 "EMERGENCY POWER SUPPLIES FOR PHYSICAL SECURITY SYSTEMS"  
MP 763-7

DECEMBER CP-0008 "STATE WORKSHOPS FOR REVIEW OF THE NUCLEAR REGULATORY  
FP 921-1 COMMISSION'S DECOMMISSIONING POLICY"

CR-0569 "FACILITATION OF DECOMMISSIONING LIGHT WATER REACTORS"  
FP 917-7

NUREG-0590 "THOUGHTS ON REGULATION CHANGES FOR DECOMMISSIONING"  
(REV. 1)

NUREG-0613 "RESIDUAL RADIOACTIVITY LIMITS FOR DECOMMISSIONING"  
ES 813-8

NUREG-0628 "NRC STAFF PRELIMINARY ANALYSIS OF PUBLIC COMMENTS  
SD 906-1 ON ADVANCE NOTICE OF PROPOSED RULEMAKING ON EMERGENCY  
PLANNING"

FEBRUARY CR-1214 "THE CONTROLLABLE UNIT APPROACH TO MATERIAL CONTROL:  
MP 685-7 APPLICATIONS TO A HIGH THROUGHPUT MIXED-OXIDE PROCESS"

NUREG-0628 "NRC STAFF PRELIMINARY ANALYSIS OF PUBLIC COMMENTS ON  
ES 906-1 ADVANCE NOTICE OF PROPOSED RULEMAKING ON EMERGENCY  
PLANNING"

MARCH CR-1039 TOPICAL REPORT, "ESTIMATED RADIATION DOSES FROM  
TP 604-9 THORIUM AND DAUGHTERS CONTAINED IN THORIATED  
WELDING ELECTRODES", 45 FR 15349, 3/10/80

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Number Issued	2	4	5	0	2	1						

### OTHER SD PRODUCTS

OCTOBER RS 907-8 STANDARD REVIEW PLAN SECTION 9.2.2, "REACTOR  
AUXILIARY COOLING WATER SYSTEMS"

NOVEMBER ES 811-8 MEMORANDUM OF UNDERSTANDING WITH SMITHSONIAN  
SCIENTIFIC INFORMATION EXCHANGE ON SUBMISSION  
OF RESEARCH INFORMATION

JANUARY OH 942-8 NRC/MSHA MEMORANDUM OF UNDERSTANDING, PUBLISHED IN FEDERAL  
IN FEDERAL REGISTER JANUARY 4, 1980, FR 45-1315

RS 016-1 ADVANCE NOTICE OF PROPOSED RULEMAKING, "NUCLEAR PLANT  
RELIABILITY DATA SYSTEM REPORTING TO BE MADE MANDATORY"

### ENVIRONMENTAL IMPACT STATEMENTS

### PETITION DENIALS

PRM 20-9 TP 712-3 DENIAL OF PETITION FOR RULEMAKING WITH REGARD TO SURFACE  
RADIATION LEVEL LIMIT OF PACKAGES PREPARED FOR TRANSPORT  
44 FR 22232

## AMENDMENTS TO AND NEW NRC REGULATIONS

			PROPOSED RULE	EFFECTIVE RULE
OCTOBER		REPORTING OF SAFEGUARDS EVENTS PROPOSED REGULATIONS 44 FR 60743	X	
NOVEMBER	TP916-1	NOTICE PROPOSING TO AMEND SS 32.26(B) (10) AND 32.29(B) TO PROVIDE NEW REQUIREMENTS FOR LABELING THE EXTERNAL SURFACES OF NOT ONLY GAS AND AEROSOL DETECTORS INCLUDING SMOKE DETECTORS, BUT ALSO THE POINT-OF-SALE PACKAGING OF THESE DETECTORS IF PACKAGED INDIVIDUALLY	X	
DECEMBER		10 CFR PART 50 EMERGENCY PLANNING 44 FR 75167	X	
JANUARY	SG 925-1	TRANSIENT SHIPMENTS OF STRATEGIC SNM	X	
	MP 711-1	PHYSICAL PROTECTION OF IN-TRANSIT OF MODERATE STRATEGIC SIGNIFICANCE	X	
		PART 21 REFERENCE IN PART 34, PUBLISHED IN FED. REG. 1/11/80 FR 45-2312	X	
	SC 905-1	10CFR50, REV. APPENDIX J, AMENDMENTS TO THE REQUIREMENTS FOR LEAK TESTING OF CONTAINMENT BUILDING AIR LOCKS IN ORDER TO PERMIT GREATER FLEXIBILITY FOR SUCH TESTING IN THE CASE OF FREQUENT USE OF THE AIR LOCKS	X	
FEBRUARY	FP 903-2	10 CFR PARTS 40 AND 150, URANIUM MILL TAILINGS LICENSING		X
		AMENDMENT TO PART 50, DOMESTIC LICENSING OF PRODUCTION AND UTILIZATION FACILITIES		X
MARCH		"CORRECTION OF U.S. POSTAL SERVICE REGULATION REFERENCE" 45 FR 20462, 3/28/80, 10 CFR PART 71		X
	RS 706-8	"PROTECTION FOR EMPLOYEES WHO PROVIDE INFORMATION TO THE NRC", 45 FR 15184, 3/10/80	X	
	RS 617-3	"NO SIGNIFICANT HAZARDS CONSIDERATION", 45 FR 20491, 3/28/80 RESPONSE TO PETITION FOR RULEMAKING (PRM-50-17), 5/7/76	X	
	RH 007-1	"TO AMEND THE GENERAL LICENSE IN SECTION 40.22" PUBLISHED ON 3/6 IN THE FR TO DELETE MATERIAL MEDICINALS FROM THE GENERAL LICENSE FOR SMALL QUANTITIES OF SOURCE MATERIAL IN SEC. 40.22.	X	
	SG 930-1	"ACCESS CONTROLS TO NUCLEAR POWER PLANT VITAL AREAS", 45 FR 15937, 3/12/80	X	
	MP 711-1	"EXTENSION OF DATES FOR IMPLEMENTATION OF CATEGORY II AND III MATERIALS REQUIREMENTS", 45 FR 19215, 3/25/80		X
	SG 929-1	"GENERAL LICENSING REQUIREMENTS FOR CARRIERS OF IRRADIATED SNM IN-TRANSIT", 45 FR 15936, 3/12/80	X	

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Proposed Rules Published	1	1	1	4	0	5						
Effective Rules Published	0	0	0	0	2	2						

# SUMMARY OF SELECTED STANDARDS STATISTICS

COMPLETED ACTIONS  
FY 1979 AND FY 1980

	10-01-78 THRU 09-30-79 (12 MONTHS)	10-01-79 THRU 03-31-80 (6 MONTHS)
DRAFT GUIDES ISSUED	39	7
ACTIVE GUIDES ISSUED	22	9
ANSI STANDARDS PUBLISHED	31	11
DRAFT ENV. STATEMENTS PUBLISHED	0	0
FINAL ENV. STATEMENTS PUBLISHED	1	0
PROPOSED RULES PUBLISHED	11	12
EFFECTIVE RULES PUBLISHED	17	4
RULEMAKING PETITIONS DENIED	6	1
RULEMAKING PETITIONS APPROVED	0	0
RULEMAKING PETITIONS WITHDRAWN	0	0
NUREG REPORTS ISSUED	37	14
OTHER SD PRODUCTS	4	4



# NRC POLICY STATEMENTS AS LISTED IN THE FEDERAL REGISTER

DATA AS OF: MARCH 31, 1980

JANUARY 3, 1975	CRITERIA FOR DETERMINING ENFORCEMENT ACTION AND CATEGORIES OF NONCOMPLIANCE (40 FR 820)
MAY 8, 1975	MIXED OXIDE FUEL; GENERIC ENVIRONMENTAL STATEMENT; TREATMENT OF SAFEGUARDS AND DEFERRALS OF LICENSING ACTIONS (40 FR 20142)
JULY 8, 1976	LICENSES TO EXPORT NUCLEAR MATERIAL AND PETITIONS FOR LEAVE TO INTERVENE IN SUCH PROCEEDINGS (41 FR 28044)
AUGUST 16, 1976	ENVIRONMENTAL EFFECTS OF THE URANIUM FUEL CYCLE (41 FR 34707)
NOVEMBER 11, 1976	ENVIRONMENTAL EFFECTS OF THE URANIUM FUEL CYCLE (41 FR 49898)
MARCH 3, 1977	TRANSPORTATION OF RADIONUCLIDES IN URBAN ENVIRONS (42 FR 12271)
MARCH 10, 1977	LOW LEVEL WASTE DISPOSAL; TASK FORCE REPORT (42 FR 13366)
MARCH 14, 1977	URANIUM MILLING; PROPOSED SCOPE AND OUTLINE FOR GENERIC ENVIRONMENTAL IMPACT STATEMENT (42 FR 13874)
JULY 5, 1977	STANDARDIZATION OF NUCLEAR POWER PLANTS (42 FR 34395)
JANUARY 10, 1978	PROGRAM FOR RESOLUTION OF GENERIC ISSUES RELATED TO NUCLEAR POWER PLANTS; REPORT TO CONGRESS (43 FR 1565)
FEBRUARY 1, 1978	CAMERA COVERAGE OF HEARINGS BEFORE ATOMIC SAFETY AND LICENSING BOARDS AND ATOMIC SAFETY AND LICENSING APPEAL BOARDS (43 FR 4294)
JUNE 28, 1978	DOMESTIC LICENSE APPLICATIONS; OPEN MEETINGS AND STATEMENT OF NRC STAFF POLICY (43 FR 28058)
AUGUST 31, 1978	STATEMENT ON STANDARDIZATION OF NUCLEAR POWER PLANTS (43 FR 38954)
OCTOBER 20, 1978	RECOMMENDATIONS FOR IMPROVING NUCLEAR POWERPLANT LICENSING (43 FR 49082)

## NRC POLICY STATEMENTS

NOVEMBER 17, 1978	LICENSING PROCEDURES FOR GEOLOGIC REPOSITORIES FOR HIGH-LEVEL RADIOACTIVE WASTES (43 FR 53869)
DECEMBER 14, 1978	GENERIC RULEMAKING TO IMPROVE NUCLEAR POWER PLANT LICENSING (43 FR 58377)
FEBRUARY 9, 1979	REGULATION OF THE MEDICAL USES OF RADIOISOTOPES; STATEMENT OF GENERAL POLICY (44 FR 8242)
OCTOBER 10, 1979	INTERIM STATEMENT OF POLICY AND PROCEDURE [CONCERNS CONDUCT OF LICENSING PROCEEDINGS PENDING DECISION ON MODIFICATION OF REGULATORY PROCEDURE] (44 FR 58559)
OCTOBER 16, 1979	PROPOSED AGENCY POLICY AND PROCEDURES FOR DIFFERING PROFESSIONAL OPINIONS; REQUEST FOR COMMENTS (44 FR 59686)
OCTOBER 23, 1979	PLANNING BASIS FOR EMERGENCY RESPONSES TO NUCLEAR POWER REACTOR ACCIDENTS (44 FR 61123)
NOVEMBER 27, 1979	STATEMENT OF POLICY AND NOTICE OF INTENT TO PREPARE A PROGRAMMATIC EIS (DISPOSAL OF TMI-2 WASTES) (44 FR 67738)
JANUARY 15, 1980	PLANNING BASIS FOR EMERGENCY RESPONSES TO NUCLEAR POWER REACTOR ACCIDENTS (44 FR 2893)

**SECTION V -  
RESEARCH PROJECTS**

# NUCLEAR REGULATORY RESEARCH

DATA AS OF: APRIL 22, 1980

## LOFT (Loss of Fluid Test)

### PURPOSE:

The LOFT facility is a well instrumented pressurized water reactor (PWR) at about 1/60 the power level and 1/5 the physical size of a commercial PWR. It is located at the Idaho National Engineering Laboratory and is designed to study the behavior of engineered safety features, such as emergency core cooling systems, during postulated reactor accident conditions. Data from LOFT experiments are being used (a) to assess and improve the analytical methods currently used to predict the course of various loss of coolant accidents and off-normal transients, and (b) to study improvements in on-line data processing and display for the enhancement of operator capability.

### STATUS:

1. The second powered small-break test, L3-2, simulating a 1" break in a commercial PWR, was successfully run on February 6, 1980. After depressurizing to 900 psia, the ECCS (HPSI) and the break flows became equal, and the system pressure stabilized. After one hour, according to plan, operator intervention caused a cooldown through the secondary side and depressurization and within about six hours brought the plant to a cold shutdown. As a result of an invitation to representatives of the nuclear industry to attend a special briefing in LOFT and to witness the L3-2 test, about 15 representatives of vendor companies, INPO and EPRI participated in these events.
2. A fault diagnostics system to assist operator interpretation of off-normal and accident conditions has been installed in LOFT. Reactor system status displays were functioning during the L3-2 test.
3. The next few tests will consist of test pairs - an operational transient, followed within a week by a small break LOCA. The first such pair is scheduled for the first half of June 1980. It will consist of a loss of feedwater (L6-5) followed by a 1-inch LOCA, L3-7, designed to investigate conditions of reflux boiling in the steam generator, and by closing the break, the effects of repressurizing the primary system.

# NUCLEAR REGULATORY RESEARCH

DATA AS OF: APRIL 22, 1980

## SEMISCALE

The Semiscale MOD 3 configuration is a one-dimensional non-nuclear representation of the thermal hydraulic behavior of a pressurized water reactor, designed to simulate ECCS/Upper Head Injection (UHI) performance during a loss-of-coolant experiment. It operates at about 1/30 the power level and is 1/5 the physical size of LOFT with two loops, each containing an active steam generator and coolant pump. The reactor core is simulated by 25 electrically heated fuel rods, each having a 12-foot heated length and arranged in a typical 15 X 15 PWR fuel geometry.

The objectives of the test facility are to:

1. Provide separate and integral effects experimental data for developing and/or assessment of LOCA computational methods,
2. Investigate small break LOCA's and plant transients,
3. Provide data for interpreting LOFT data and addressing LOFT design compromises, and
4. Provide data to investigate UHI phenomena and to evaluate analytical capabilities.

## STATUS:

Following the TMI-2 accident the Semiscale conducted non-condensable gas bubble venting experiments in support of the TMI-2 accident team and also conducted TMI-2 transient simulation experiments employing a B&W pressurizer line configuration. These latter tests demonstrated that core region uncover can occur even through pressurizer level readings would indicate a covered core.

A revised Semiscale program plan has been developed for FY 1980 which stresses small break LOCA's and plant transient effects. This redirection is in keeping with ACRS recommendations to concentrate on plant transients and small LOCA's, as well as initiating a series of small break tests to support LOFT small break testing planned for FY 1980. NRR small break model evaluations will utilize both the Semiscale and LOFT small break test data.

The planned FY 1980 effort summarizes as follows:

1. Small break tests SB-4 and SB-4A (counter part tests to the LOFT nuclear small break test L3-1) were conducted in early November 1979. Current plans call for concluding the LOFT support small break tests by mid FY 1980.

continued

## NUCLEAR REGULATORY RESEARCH

DATA AS OF: APRIL 22, 1980

2. Redirected effort has deferred completion of previously planned large LOCA UHI experiments. Also, the previous large break LOCA experiment (S-07-6) will be rerun after the MOD 2A conversion to evaluate the effects of an improved downcomer and vessel thermal insulation.
3. Interim facility upgrades, MOD 2A conversion (e.g., installation of a second PWR scaled primary loop pump, a second full height UTSG, additional thermal insulation to minimize system heat leakages), will be initiated in the third quarter of FY 1980, as well as design work for a Semiscale system upgrade to simulate a 2 x 4 PWR configuration having two independent secondary loops with heat dump capability.
4. Plan and conduct separate effects tests (in the third and fourth quarters of FY 1980) addressing: steam generator and feedwater systems transients, natural circulation effects with two-phase effects, effects of non-condensable gases, etc.
5. Pumps-on and pumps-off experiments for small break LOCA transients are to be performed in the Semiscale facility for both cold and hot leg breaks in the second quarter of FY 1980.

### POTENTIAL PROBLEMS:

1. Availability of, and timing of, FY 1980 supplemental funding.
2. Final agreement on FY 1980 experiments planned for Quarters 3 and 4.

# NUCLEAR REGULATORY RESEARCH

DATA AS OF: APRIL 22, 1980

## Power Burst Facility

### PURPOSE:

The Power Burst Facility (PBF) uses a pressurized test loop in a pool-type 30 megawatt (steady state) reactor capable of pulsed operation. It is located at the Idaho National Engineering Laboratory and is used to obtain data on the performance of fuel rod clusters under abnormal power, coolant flow and energy density conditions. This includes the PCM (Power Cooling Mismatch) test, LOCA (Loss of Coolant Accident) tests, RIA (Reactivity Initiated Accident) tests and inlet flow blockage tests. The data obtained will be used to develop or test analytical capability which can be used to predict fuel response in reactors during off-normal operation conditions.

### STATUS:

A double-ended cold leg break test (LOC-3) with pressurized rods was performed in June. This was the first of four PRF LOCA tests which will explore the relative clad ballooning over the 1050K-1500K (1430F-2240F) peak clad temperature range, in which maximum clad ballooning and resultant flow channel blockage may be possible. All four rods had small ruptures, with 20% to 50% ballooning and estimated PCTs of 1150K-1250K at the time of rupture. The second of the four LOCA program tests (LOC-5) was performed in September to study relative clad ballooning at a 1300K (1880F) PCT (low beta phase). Because of check valve malfunctions, only one test rod reached the wanted temperature range so the test was repeated in December. Two valves again malfunctioned so only two rods heated correctly. Further LOC tests will be delayed until all malfunctioning hardware is redesigned and the test train is refitted or replaced.

Four surface thermo couple quench tests were performed in October. These LOCA blowdown-heatup-rewet tests compared the time-temperature responses of fuel and inner cladding for fuel rods with and without external cladding thermocouples. The rods without external thermocouples went into departure from nucleate boiling sooner, reached higher internal clad temperatures during the simulated accident and rewet later than the rods fitted with external thermocouples.

Test PR-1, a multipurpose PCM, rewet, stored energy, RIA test, was completed February 22, 1980. Preliminary analyses of the data indicate a hysteresis in the power and coolant values for occurrence of boiling transition and return to nucleate boiling under the same pressure and loop conditions. No significant dispersal of fuel from a water-logged rod occurred during the RIA tests to 180 cal/g  $UO_2$  enthalpy insertion, though pressure pulses in the rod were observed. The only argon filled rod did not burst and reached cladding temperatures about 300K less than the helium filled rods which did burst. The data are being analyzed further.

The power calibration tests for RIA 1-4 were completed by April 4, 1980 and the specimen train has been removed from the IPT to allow insertion of new flux wires and a replacement specimen fuel rod. The RIA 1-4 test is scheduled to be conducted on April 15, 1980.

## NUCLEAR REGULATORY RESEARCH

DATA AS OF: APRIL 22, 1980

Modifications of the test loop pump for variable speed to provide a broader range of flow conditions were completed in FY 1979. These modifications will improve loop performance for the experimental program. A modification to reduce the control room noise level was completed in December.

### PROBLEMS:

Further LOC tests will be delayed until all malfunctioning hardware is redesigned and the test train is refitted or replaced.



**NUCLEAR REGULATORY RESEARCH** DATA AS OF: APRIL 22, 1980  
**PRESSURIZED WATER REACTOR BLOWDOWN HEAT TRANSFER PROGRAM**  
**(PWR-BDHT)**

PURPOSE:

The BDHT program at ORNL is designed to investigate transient heat transfer phenomena in a simulated fuel bundle assembly. Specifically, time-to-critical heat flux (CHF), transition heat transfer under upflow and down flow conditions and return to nucleate boiling will be investigated under blowdown conditions. Transfer experiments will be conducted to investigate heat transfer under conditions that could be encountered under small LOCA conditions.

STATUS:

The test loop shakedown was concluded in November 1979. The initial round of bundle uncover/recovery tests at pressures of 400-1000 psia were completed in January 1980. A preliminary data set was issued in late February 1980 for low power, high pressure and bundle uncover/recovery heat transfer data.

Facility preparation is underway for the initial "film boiling" blowdown transients. Bundle pressure seal problems have occurred and the facility is currently out of operation for pressure seal replacement.

PROBLEMS:

Bundle power controller/protective circuit trip and seal problems have been encountered. The estimated schedule for resolution of these problems is in the second quarter of FY 1980. Corrective solutions are being investigated and a contingency plan has been prepared.

## **NUCLEAR REGULATORY RESEARCH** DATA AS OF: APRIL 22, 1980 **HEAVY SECTION STEEL TECHNOLOGY PROGRAM (HSST)**

### **PURPOSE:**

The purpose of the HSST program is to develop and evaluate methods of fracture analysis of heavy section steel light water reactor pressure vessels for inclusion in codes and standards. Thermal shock and pressure tests of model reactor pressure vessels are carried out at the Oak Ridge National Laboratory. The state-of-the-art is being advanced both in the effects of irradiation and in the methods used to assess reactor safety.

### **STATUS:**

Tests on deliberately flawed vessels have been performed to verify the linear elastic fracture mechanics methodology, as well as newer methods for elastic-plastic fracture mechanics wherein slow crack growth occurs prior to fast fracture. The results have satisfactorily validated linear elastic fracture mechanics; the excellent agreement between failure and results based on elastic-plastic analysis has also provided good confidence for licensing application of this methodology. In general, the tests have shown that pressures two to three times design pressure, in accordance with the requirements in the ASME Code, are required to cause failure in a flawed vessel. Two recent tests on weld repaired vessels have shown that the repair weld procedure as spelled out in the ASME Code, produces very sound welds but also induce unacceptable residual stresses in the material surrounding the weld. These stresses do not compromise the weld but can lead to accelerated fatigue cracking of the vessel.

A series of four tests on thick-walled steel cylinders under thermal shock conditions have well validated linear elastic fracture mechanics as a methodology for assessing vessel response to LOCA/ECCS thermal shock accidents. The phenomenon of warm prestressing has been proposed as an additional deterrent to crack initiation and extension under thermal shock; this is now being investigated using larger, thick-walled steel cylinders. In this series of tests, cylinders of the same scale as intermediate test vessels are being subjected to liquid nitrogen shocking to prove the concept of warm prestressing, and also to establish the limit of crack extension for very deep cracks, i.e., to prove that a deep crack cannot propagate through a vessel wall. The first test in this latter series was run on August 1, 1979. Analysis of the results of these tests showed that they were inconclusive as regards warm prestressing. The post-test analysis also gave clear evidence that the fracture behavior of the material in thick wall vessels, when subjected to upper transition curve temperatures, will be governed by the lower bound fracture toughness values for that material as determined from small specimen testing. A comprehensive program to establish lower bound values from such testing has been initiated. The second experiment in that series is being prepared.

An irradiation program on heavy section low ductile shelf weld metal test specimens is underway to quantify the potential toughness loss caused by neutron irradiation damage and assess compliance with Appendices G and H of 10 CFR 50. The first three irradiations are complete and testing has begun. A qualification program, for the testing method to be used to evaluate the fracture toughness in fracture mechanics terms from small specimens, is in its final stage; i.e., a multi-laboratory evaluation of the testing procedure. Testing of the smaller fracture toughness specimens has started and the first sets of data from Charpy and compact tensile specimens have been developed. Completion of the fracture testing of the remainder of the irradiated specimens awaits completion of the test procedure.

**PROBLEMS:** None

**SECTION VI -  
FOREIGN REACTORS**

## SUMMARY OF FOREIGN POWER REACTORS

NUMBERS IN PARENTHESES ARE NET MWE

DATA AS OF: MARCH 31, 1980

COUNTRY	REACTORS OPERATING	REACTORS UNDER CONST	REACTORS PLANNED	TOTAL REACTORS
ARGENTINA	1 (335)	1 (600)	2	4
AUSTRIA	1 (692)*	-	-	1
BELGIUM	3 (1650)	3 (2825)	1	7
BRAZIL	-	3 (1870)	1	4
BULGARIA	2 (880)	2 (880)	-	4
CANADA	9 (4750)*	6 (3494)	5	20
CUBA	-	-	1	1
CZECHOSLOVAKIA	1 (110)	4 (1760)	-	5
DENMARK	-	-	2	2
EGYPT	-	-	3	3
FINLAND	2 (1080)	2 (1080)	-	4
FRANCE	18 (10,058)	22 (21,245)	10	50
GERMAN DEMOCRATIC REPUBLIC	4 (1390)*	3 (1320)	-	7
GERMAN FEDERAL REPUBLIC	15 (9012)	7 (8125)	7	29
GREECE	-	-	1	1
HUNGARY	-	4 (1740)	-	4
INDIA	3 (602)	5 (1080)	-	8
INDONESIA	-	-	1	1
IRELAND	-	-	1	1
ISRAEL	-	-	1	1
ITALY	4 (1387)	1 (40)	4	9
JAPAN	20 (12333)	9 (8103)	1	30
KOREA, REPUBLIC OF SOUTH	1 (595)	2 (1294)	6	9
LIBYA	-	-	1	1
LUXEMBOURG	-	-	1	1
MEXICO	-	2 (1308)	-	2
NETHERLANDS	2 (493)	-	-	2
NORWAY	-	-	1	1
PAKISTAN	1 (125)	-	1	2
PHILIPPINES	-	1 (620)	1	2
POLAND	-	-	2	2
ROMANIA	-	-	1	1
SOUTH AFRICA, REPUBLIC OF	-	-	2	2
SPAIN	4 (1973)	7 (6310)	6	17
SWEDEN	8 (5500)*	2 (1800)	2	12
SWITZERLAND	4 (1940)	1 (942)	2	7
TAIWAN	1 (636)	5 (4508)	-	6
TURKEY	-	-	1	1
UNITED KINGDOM	33 (8080)	6 (3700)	-	39
USSR	22 (8875)*	11 (10040)	-	33
YUGOSLAVIA	-	1 (615)	-	1
<b>TOTAL</b>	<b>159 (72,496)</b>	<b>110 (85,299)</b>	<b>67</b>	<b>337</b>

AUSTRIA	ZWENTENDORF	692	BWR
CANADA	BRUCE 3	746	CANDU
SWEDEN	RINGHALS 3	900	PHR
	FORSMARK 1	900	BWR
USSR	KURSK	1000	LGR

\*REACTOR CONSTRUCTION COMPLETED, NOT YET IN COMMERCIAL OPERATION

## EXPORT LICENSE APPLICATIONS

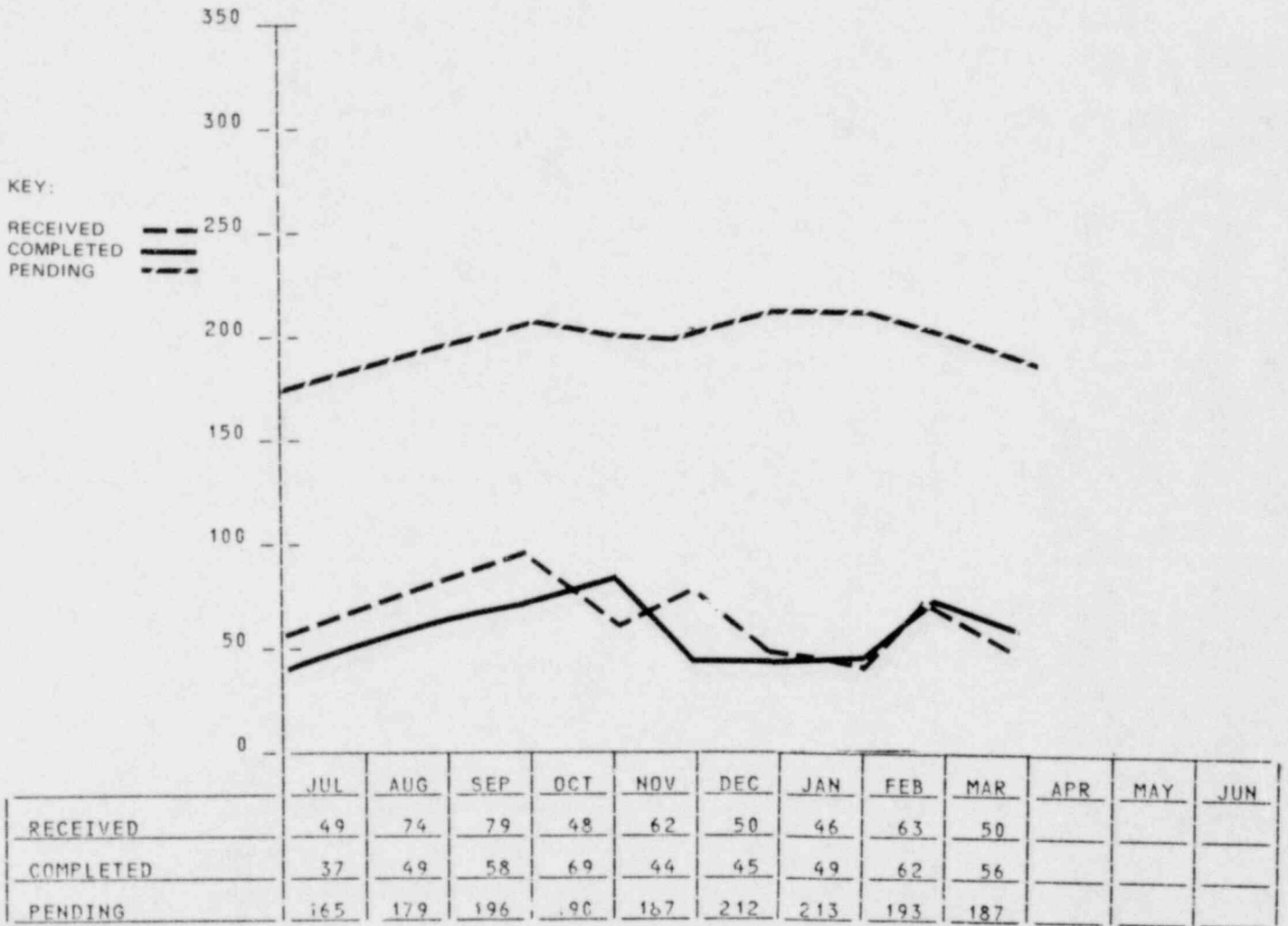
**DESCRIPTION:**

This chart tracks combined 'major' and 'minor' export licensing actions.

Statistics for this page are obtained from the Summary of Pending Export Licenses prepared by MPA for the Office of International Programs.

DATA AS OF: MARCH 31, 1980

Export Licenses



**EXPORT LICENSE APPLICATIONS  
(CONTINUED)**

DATA AS OF: MARCH 31, 1980

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
AWAITING APPLICANT REPLY	3	0	1	1	1	0	1	0	0			
IN PREPARATION FOR TRANSMITTAL TO STATE DEPARTMENT	2	10	4	0	0	4	1	1	3			
UNDER EXECUTIVE BRANCH REVIEW	124	123	144	145	147	158	140	138	137			
ROUTINE RELOAD	0	0	0	0	0	0	0	0	0			
IN PREPARATION FOR COMMISSION REVIEW	7	5	5	5	5	6	16	15	4			
SENT TO DOE	11	0	20	21	22	16	14	18	17			
UNDER COMMISSION REVIEW	5	2	1	1	1	1	4	4	4			
IN PROCESS FOR ISSUANCE	0	8	0	2	0	5	8	6	4			
UNDER FURTHER REVIEW- SPECIAL CASE:	12	12	13	12	10	12	13	10	17			
UNDER GENERIC APPROVAL	0	1	6	2	0	6	14	1	0			
RETURNED FROM STATE NO ACTION	0	0	0	0	0	0	0	0	0			
AMENDMENT ONLY IN PROCESS ISSUANCE	0	7	1	0	0	3	1	0	0			
AWAITING GENERIC ASSUR- ANCES ON TRANSFER OF COMPONENTS & MATERIALS	1	1	1	1	1	1	1	0	1			

**SECTION VII -**

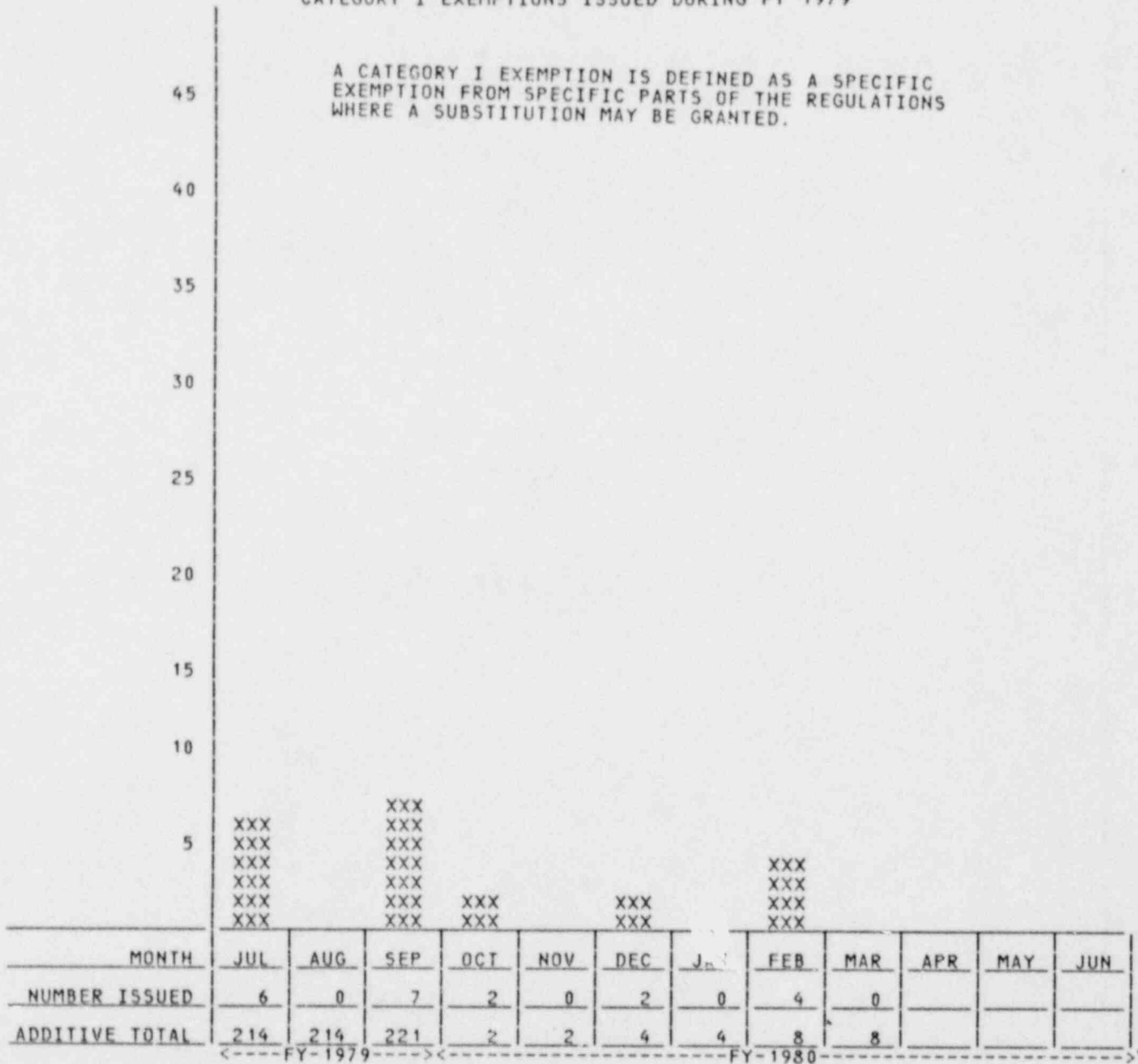
**EXEMPTIONS**

# EXEMPTIONS ISSUED

DATA AS OF: MARCH 31, 1980

## CATEGORY I EXEMPTIONS ISSUED DURING FY 1979

A CATEGORY I EXEMPTION IS DEFINED AS A SPECIFIC EXEMPTION FROM SPECIFIC PARTS OF THE REGULATIONS WHERE A SUBSTITUTION MAY BE GRANTED.



### KEY

A=### PRODUCTION & UTILIZATION FACILITIES  
 B=XXX MATERIALS  
 C=\$\$\$ TRANSPORTATION  
 D=... IMPORT/EXPORT

FOOTNOTE: NO CATEGORY I EXEMPTIONS WERE GRANTED IN THE MONTH OF MARCH.

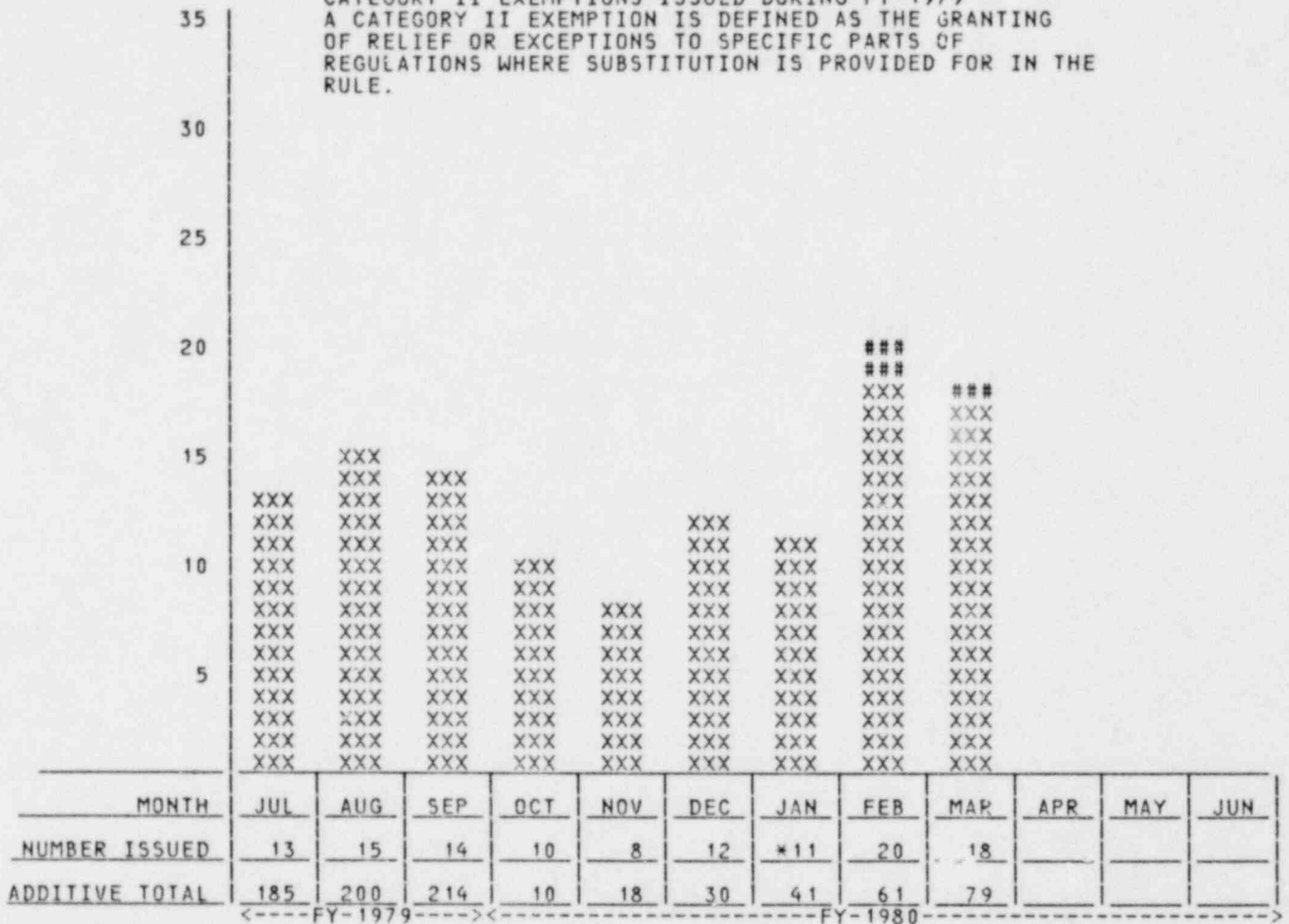
FOR ADDITIONAL INFORMATION CONTACT GLORIA M. BENNINGTON, 49-27507.



# EXEMPTIONS ISSUED

DATA AS OF: MARCH 31, 1980

CATEGORY II EXEMPTIONS ISSUED DURING FY 1979  
 A CATEGORY II EXEMPTION IS DEFINED AS THE GRANTING  
 OF RELIEF OR EXCEPTIONS TO SPECIFIC PARTS OF  
 REGULATIONS WHERE SUBSTITUTION IS PROVIDED FOR IN THE  
 RULE.



\*NOTICE OF ADDITIONAL EXEMPTIONS GRANTED RECEIVED AFTER 3/3/80.

KEY

A=###	PRODUCTION & UTILIZATION FACILITIES
B=XXX	MATERIALS
C=\$\$\$	TRANSPORTATION
D=...	IMPORT/EXPORT

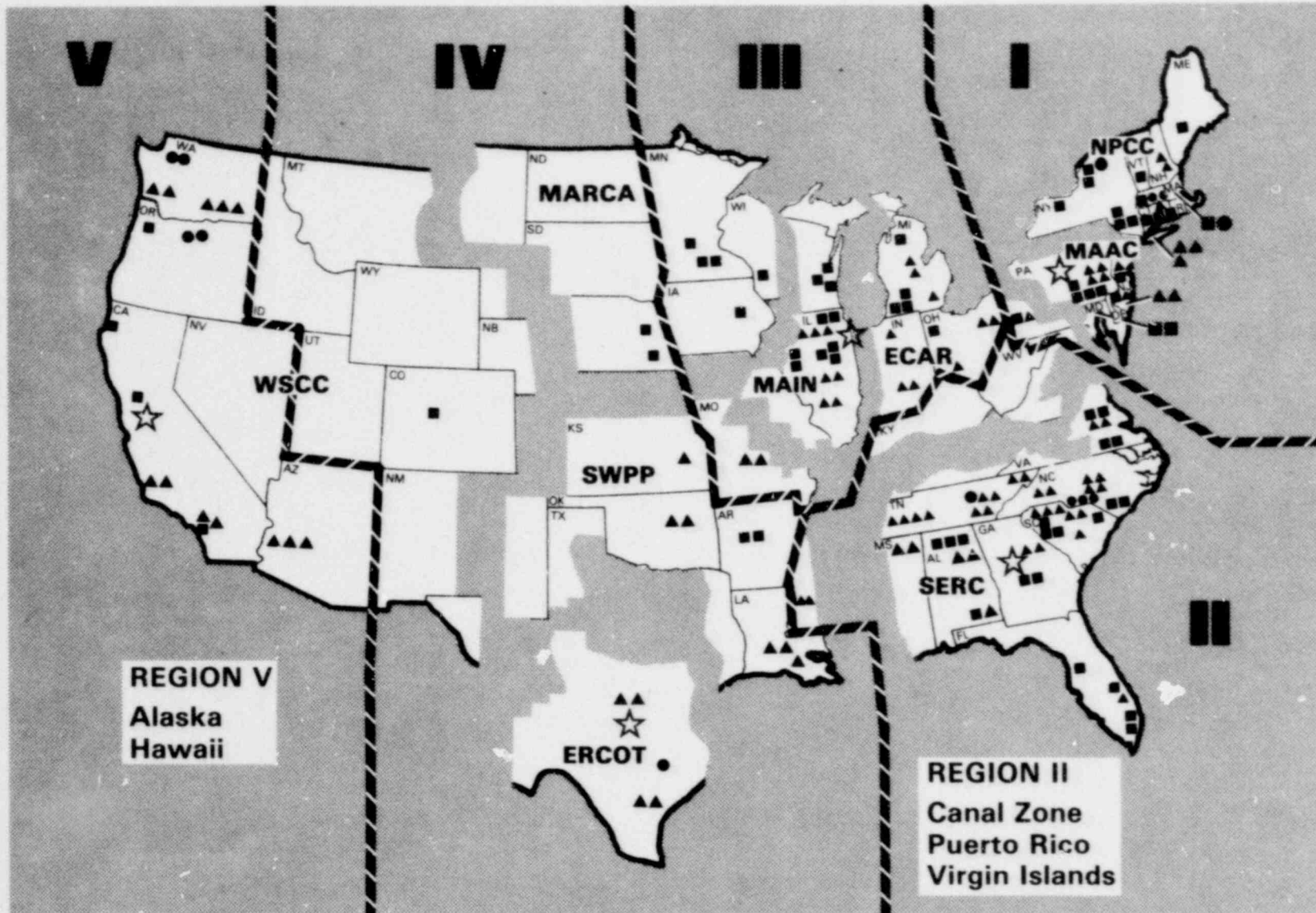
FOOTNOTE: FOR THE MONTH OF MARCH,  
 THE OFFICE OF INTERNATIONAL PROGRAMS  
 AND THE DIVISION OF OPERATING REACTORS, NRR  
 DID NOT ISSUE ANY EXEMPTIONS.

FOR ADDITIONAL INFORMATION CONTACT GLORIA M. BENNINGTON, 49-27507.

**SECTION VIII -**

**NRC OVERVIEW**

# U.S. Electric Reliability Councils and Commercial Nuclear Power Reactors in the United States



**REGION V**  
Alaska  
Hawaii

**REGION II**  
Canal Zone  
Puerto Rico  
Virgin Islands

- Licensed to Operate
- ▲ Under Construction  
(Incl. Limited Work Authorizations)
- Application Under Review
- ☆ Regional Offices

# U.S. Electric Reliability Councils and U.S. Regional Offices

## NUCLEAR POWER UNITS GROUPED GEOGRAPHICALLY BY REGIONAL ELECTRIC RELIABILITY COUNCILS\*

<u>ECAR (East Central Area Reliability Coord. Group)</u>		(LIC) POINT BEACH 1	WISCONSIN
(PCP) BAILLY 1	INDIANA	(LIC) POINT BEACH 2	WISCONSIN
(LIC) BEAVER VALLEY 1	PENNSYLVANIA	(LIC) QUAD CITIES 1	ILLINOIS
(PCP) BEAVER VALLEY 2	PENNSYLVANIA	(LIC) QUAD CITIES 2	ILLINOIS
(LIC) BIG ROCK POINT 1	MICHIGAN	(LIC) ZION 1	ILLINOIS
(LIC) COOK 1	MICHIGAN	(LIC) ZION 2	ILLINOIS
(LIC) COOK 2	MICHIGAN		
(LIC) DAVIS-BESSE 1	OHIO	<u>MARCA (Mid-Continental Area Reliability Coord. Agreement)</u>	
(OL) ENRICO FERMI 2	MICHIGAN	(LIC) COOPER STATION	NEBRASKA
(PCP) MARBLE HILL 1	INDIANA	(LIC) DUANE ARNOLD	IOWA
(PCP) MARBLE HILL 2	INDIANA	(LIC) FORT CALHOUN 1	NEBRASKA
(OL) MIDLAND 1	MICHIGAN	(FTL) LA CROSSE	WISCONSIN
(OL) MIDLAND 2	MICHIGAN	(FTL) MONTICELLO	MINNESOTA
(FTL) PALISADES	MICHIGAN	(LIC) PRAIRIE ISLAND 1	MINNESOTA
(PCP) PERRY 1	OHIO	(LIC) PRAIRIE ISLAND 2	MINNESOTA
(PCP) PERRY 2	OHIO		
(OL) ZIMMER 1	OHIO		

<u>ERCOT (Electric Reliability Council of Texas)</u>	
(CP) ALLENS CREEK 1	TEXAS
(OL) COMANCHE PEAK 1	TEXAS
(OL) COMANCHE PEAK 2	TEXAS
(OL) SOUTH TEXAS 1	TEXAS
(OL) SOUTH TEXAS 2	TEXAS

<u>MAAC (Mid-Atlantic Area Council)</u>	
(LIC) CALVERT CLIFFS 1	MARYLAND
(LIC) CALVERT CLIFFS 2	MARYLAND
(PCP) FORKED RIVER	NEW JERSEY
(PCP) HOPE CREEK 1	NEW JERSEY
(PCP) HOPE CREEK 2	NEW JERSEY
(PCP) LIMERICK 1	PENNSYLVANIA
(PCP) LIMERICK 2	PENNSYLVANIA
(FTL) OYSTER CREEK 1	NEW JERSEY
(LIC) PEACH BOTTOM 2	PENNSYLVANIA
(LIC) PEACH BOTTOM 3	PENNSYLVANIA
(LIC) SALEM 1	NEW JERSEY
(OL) SALEM 2	NEW JERSEY
(OL) SUSQUEHANNA 1	PENNSYLVANIA
(OL) SUSQUEHANNA 2	PENNSYLVANIA
(LIC) THREE MILE ISLAND 1	PENNSYLVANIA
(LIC) THREE MILE ISLAND 2	PENNSYLVANIA

<u>MAIN (Mid-America Interpool Network)</u>	
(OL) BRAIDWOOD 1	ILLINOIS
(OL) BRAIDWOOD 2	ILLINOIS
(OL) BYRON 1	ILLINOIS
(OL) BYRON 2	ILLINOIS
(PCP) CALLAWAY 1	MISSOURI
(PCP) CALLAWAY 2	MISSOURI
(PCP) CLINTON 1	ILLINOIS
(PCP) CLINTON 2	ILLINOIS
(LIC) DRESDEN 1	ILLINOIS
(FTL) DRESDEN 2	ILLINOIS
(LIC) DRESDEN 3	ILLINOIS
(LIC) KEWAUNEE	WISCONSIN
(OL) LASALLE 1	ILLINOIS
(OL) LASALLE 2	ILLINOIS

<u>NPPC (Northeast Power Coord. Council)</u>	
(LIC) FITZPATRICK	NEW YORK
(FTL) GINNA	NEW YORK
(LIC) HADDAM NECK	CONNECTICUT
(LIC) INDIAN POINT 1	NEW YORK
(LIC) INDIAN POINT 2	NEW YORK
(LIC) INDIAN POINT 3	NEW YORK
(PCP) JAMESPORT 1	NEW YORK
(PCP) JAMESPORT 2	NEW YORK
(LIC) MAINE YANKEE	MAINE
(FTL) MILLSTONE 1	CONNECTICUT
(LIC) MILLSTONE 2	CONNECTICUT
(PCP) MILLSTONE 3	CONNECTICUT
(CP) MONTAGUE 1	MASSACHUSETTS
(CP) MONTAGUE 2	MASSACHUSETTS
(CP) NEW ENGLAND 1	RHODE ISLAND
(CP) NEW ENGLAND 2	RHODE ISLAND
(CP) NEW HAVEN 1	NEW YORK
(CP) NEW HAVEN 2	NEW YORK
(LIC) NINE MILE POINT 1	NEW YORK
(PCP) NINE MILE POINT 2	NEW YORK
(LIC) PILGRIM 1	MASSACHUSETTS
(CP) PILGRIM 2	MASSACHUSETTS
(PCP) SEABROOK 1	NEW HAMPSHIRE
(PCP) SEABROOK 2	NEW HAMPSHIRE
(OL) SHOREHAM	NEW YORK
(PCP) STERLING 1	NEW YORK
(LIC) VERMONT YANKEE 1	VERMONT
(LIC) YANKEE-ROWE 1	MASSACHUSETTS

### Regional Status of Nuclear Power Reactors

Data as of: February 29, 1980

Region	I	II	III	IV	V	Total	
	3	6	7	1	6	23	Reactors Planned or Announced
	17	35	21	10	12	*95	Reactors Authorized to Construct
	22	19	20	5	4	70	Reactors Licensed to Operate
	42	60	48	16	22	188	

\*4 Units with an LWA are Included in the Construction Category

### U.S. Nuclear Regulatory Commission Regional Offices

Region I, 215-337-1150  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

Region II, 404-221-4503  
Suite 3100, 101 Marietta Street  
Atlanta, Georgia 30303

Region III, 312-858-2660  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Region IV, 817-334-2841  
Suite 1000  
611 Ryan Plaza Drive  
Arlington, Texas 76012

Region V, 415-932-8300  
1990 N. California Blvd.  
Walnut Creek Plaza Suite 202  
Walnut Creek, California 94596

### U.S. Electric Reliability Councils

<b>ECAR</b>	East Central Area Reliability Coordination Agreement
<b>MAIN</b>	Mid-America Interpool Network
<b>MAAC</b>	Mid-Atlantic Area Council
<b>MARCA</b>	Mid-Continent Area Reliability Coordination Agreement
<b>NPPC</b>	Northeast Power Coordinating Council
<b>SERC</b>	Southeastern Electric Reliability Council
<b>SWPP</b>	Southwest Power Pool
<b>ERCOT</b>	Electric Reliability Council of Texas
<b>WSCC</b>	Western Systems Coordinating Council

# U.S. Electric Reliability Councils and U.S. Regional Offices

## NUCLEAR POWER UNITS GROUPED GEOGRAPHICALLY BY REGIONAL ELECTRIC RELIABILITY COUNCILS:

### SERC (Southeastern Reliability Council)

(OL ) BELLEFONTE 1	ALABAMA
(OL ) BELLEFONTE 2	ALABAMA
(LIC) BROWNS FERRY 1	ALABAMA
(LIC) BROWNS FERRY 2	ALABAMA
(LIC) BROWNS FERRY 3	ALABAMA
(LIC) BRUNSWICK 1	NORTH CAROLINA
(LIC) BRUNSWICK 2	NORTH CAROLINA
(OL ) CATAWBA 1	SOUTH CAROLINA
(OL ) CATAWBA 2	SOUTH CAROLINA
(PCP) CHEROKEE 1	SOUTH CAROLINA
(PCP) CHEROKEE 2	SOUTH CAROLINA
(PCP) CHEROKEE 3	SOUTH CAROLINA
(CP ) CLINCH RIVER	TENNESSEE
(LIC) CRYSTAL RIVER 3	FLORIDA
(LIC) FARLEY 1	ALABAMA
(OL ) FARLEY 2	ALABAMA
(PCP) HARRIS 1	NORTH CAROLINA
(PCP) HARRIS 2	NORTH CAROLINA
(PCP) HARRIS 3	NORTH CAROLINA
(PCP) HARRIS 4	NORTH CAROLINA
(PCP) HARTSVILLE A-1	TENNESSEE
(PCP) HARTSVILLE A-2	TENNESSEE
(PCP) HARTSVILLE B-1	TENNESSEE
(PCP) HARTSVILLE B-2	TENNESSEE
(LIC) HATCH 1	GEORGIA
(LIC) HATCH 2	GEORGIA
(OL ) MCGUIRE 1	NORTH CAROLINA
(OL ) MCGUIRE 2	NORTH CAROLINA
(LIC) NORTH ANNA 1	VIRGINIA
(OL ) NORTH ANNA 2	VIRGINIA
(LIC) OCONEE 1	SOUTH CAROLINA
(LIC) OCONEE 2	SOUTH CAROLINA
(LIC) OCONEE 3	SOUTH CAROLINA
(CP ) PERKINS 1	NORTH CAROLINA
(CP ) PERKINS 2	NORTH CAROLINA
(CP ) PERKINS 3	NORTH CAROLINA
(PCP) PHIPPS BEND 1	TENNESSEE
(PCP) PHIPPS BEND 2	TENNESSEE
(FTL) ROBINSON 2	SOUTH CAROLINA
(LIC) SEQUOYAH 1	TENNESSEE
(OL ) SEQUOYAH 2	TENNESSEE
(LIC) ST LUCIE 1	FLORIDA
(PCP) ST LUCIE 2	FLORIDA
(OL ) SUMMER 1	SOUTH CAROLINA
(LIC) SURRY 1	VIRGINIA
(LIC) SURRY 2	VIRGINIA
(LIC) TURKEY POINT 3	FLORIDA
(LIC) TURKEY POINT 4	FLORIDA
(PCP) VOGTLE 1	GEORGIA
(PCP) VOGTLE 2	GEORGIA
(OL ) WATTS BAR 1	TENNESSEE
(OL ) WATTS BAR 2	TENNESSEE
(PCP) YELLOW CREEK 1	MISSISSIPPI
(PCP) YELLOW CREEK 2	MISSISSIPPI

### SWPP (Southwest Power Pool)

(LIC) ARKANSAS 1	ARKANSAS
(LIC) ARKANSAS 2	ARKANSAS
(CP ) BLACK FOX 1	OKLAHOMA
(CP ) BLACK FOX 2	OKLAHOMA
(OL ) GRAND GULF 1	MISSISSIPPI
(OL ) GRAND GULF 2	MISSISSIPPI
(PCP) RIVER BEND 1	LOUISIANA
(PCP) RIVER BEND 2	LOUISIANA
(OL ) WATERFORD 3	LOUISIANA
(PCP) WOLF CREEK 1	KANSAS

### WSPCC (Western Systems Coord. Council)

(OL ) DIABLO CANYON 1	CALIFORNIA
(OL ) DIABLO CANYON 2	CALIFORNIA
(LIC) FORT ST VRAIN	COLORADO
(LIC) HUMBOLDT BAY	CALIFORNIA
(PCP) PALO VERDE 1	ARIZONA
(PCP) PALO VERDE 2	ARIZONA
(PCP) PALO VERDE 3	ARIZONA
(CP ) PEBBLE SPRINGS 1	OREGON
(CP ) PEBBLE SPRINGS 2	OREGON
(LIC) RANCHO SECO 1	CALIFORNIA
(FTL) SAN ONOFRE 1	CALIFORNIA
(OL ) SAN ONOFRE 2	CALIFORNIA
(OL ) SAN ONOFRE 3	CALIFORNIA
(CP ) SKAGIT 1	WASHINGTON
(CP ) SKAGIT 2	WASHINGTON
(LIC) TROJAN	OREGON
(PCP) WASHINGTON NUCLEAR 1	WASHINGTON
(OL ) WASHINGTON NUCLEAR 2	WASHINGTON
(PCP) WASHINGTON NUCLEAR 3	WASHINGTON
(PCP) WASHINGTON NUCLEAR 4	WASHINGTON
(PCP) WASHINGTON NUCLEAR 5	WASHINGTON

# REACTORS BY STATE

STATE	MWE	STAGE	STATE	MWE	STAGE	STATE	MWE	STAGE	STATE	MWE	STAGE
<b>ALABAMA</b>			<b>INDIANA</b>			<b>NEW JERSEY</b>			<b>SOUTH CAROLINA</b>		
BROWNS FERRY 1	(1065)	LIC	BAILY STATION	(660)	UC	OYSTER CREEK	(650)	LIC	OCONEE 1	(887)	LIC
BROWNS FERRY 2	(1065)	LIC	MARBLE HILL 1	(1130)	UC	SALEM 1	(1090)	LIC	OCONEE 2	(887)	LIC
BROWNS FERRY 3	(1065)	LIC	MARBLE HILL 2	(1130)	UC	SALEM 2	(1115)	UC/DL	OCONEE 3	(887)	LIC
FARLEY 1	(829)	LIC	<b>IOWA</b>			FORKED RIVER	(1070)	UC	ROBINSON 2	(700)	LIC
FARLEY 2	(829)	UC/DL	DUANE ARNOLD	(538)	LIC	HOPE CREEK 1	(1067)	UC	CATAWBA 1	(1145)	LIC
BELLEFONTE 1	(1235)	UC/DL	<b>KANSAS</b>			HOPE CREEK 2	(1067)	UC	CATAWBA 2	(1145)	UC
BELLEFONTE 2	(1235)	UC/DL	WOLF CREEK	(1150)	UC	<b>NEW YORK</b>			CHEROKEE 1	(1280)	UC
<b>ARKANSAS</b>			<b>LOUISIANA</b>			FITZPATRICK	(821)	LIC	CHEROKEE 2	(1280)	UC
ARKANSAS 1	(850)	LIC	RIVERBEND 1	(934)	UC	GINNA	(490)	LIC	CHEROKEE 3	(1280)	UC
ARKANSAS 2	(912)	LIC	RIVERBEND 2	(934)	UC	INDIAN POINT 1	(265)	LIC	SUMMER 1	(900)	UC/DL
<b>ARIZONA</b>			WATERFORD 3	(1165)	UC/DL	INDIAN POINT 2	(873)	LIC	<b>TENNESSEE</b>		
PALO VERDE 1	(1270)	UC	<b>MAINE</b>			INDIAN POINT 3	(873)	LIC	HARTSVILLE 1	(1205)	UC
PALO VERDE 2	(1270)	UC	MAINE YANKEE	(790)	LIC	NINE MILE POINT 1	(610)	LIC	HARTSVILLE 2	(1205)	UC
PALO VERDE 3	(1270)	UC	<b>MARYLAND</b>			NINE MILE POINT 2	(1180)	UC	HARTSVILLE 3	(1205)	UC
<b>CALIFORNIA</b>			CALVERT CLIFFS 1	(845)	LIC	SHOREHAM	(854)	UC/DL	HARTSVILLE 4	(1205)	UC
HUMBOLDT BAY	(63)	LIC	CALVERT CLIFFS 2	(845)	LIC	STERLING 1	(1150)	UC	SEQUOYAH 1	(1140)	UC/DL
RANCHO SECO	(917)	LIC	<b>MASSACHUSETTS</b>			JAMESPORT 1	(1150)	UC	SEQUOYAH 2	(1140)	UC/DL
SAN ONOFRE 1	(430)	LIC	PILGRIM 1	(655)	LIC	JAMESPORT 2	(1150)	UC	WATTS BAR 1	(1165)	UC/DL
DIABLO CANYON 1	(1034)	UC/DL	PILGRIM 2	(1180)	UR	NEW HAVEN 1	(1250)	UR	WATTS BAR 2	(1165)	UC/DL
DIABLO CANYON 2	(1106)	UC/DL	YANKEE-ROWE	(175)	LIC	NEW HAVEN 2	(1250)	UR	PHIPPS BEND 1	(1220)	UC
SAN ONOFRE 2	(1140)	UC/DL	MONTAGUE 1	(1150)	UR	<b>NORTH CAROLINA</b>			PHIPPS BEND 2	(1220)	UC
SAN ONOFRE 3	(1140)	UC/DL	MONTAGUE 2	(1150)	UR	BRUNSWICK 1	(821)	LIC	CLINCH RIVER	(350)	UR
<b>COLORADO</b>			<b>MICHIGAN</b>			BRUNSWICK 2	(821)	LIC	<b>TEXAS</b>		
FT. ST. VRAIN	(330)	LIC	PALISADES	(805)	LIC	BRUNSWICK 3	(915)	UC	COMANCHE PEAK 1	(1150)	UC/DL
<b>CONNECTICUT</b>			BIG ROCK POINT	(72)	LIC	HARRIS 1	(915)	UC	COMANCHE PEAK 2	(1150)	UC/DL
CONNECTICUT YANKEE	(575)	LIC	COOK 1	(1054)	LIC	HARRIS 2	(915)	UC	SOUTH TEXAS 1	(1250)	UC/DL
MILLSTONE 1	(660)	LIC	COOK 2	(1100)	LIC	HARRIS 3	(915)	UC	SOUTH TEXAS 2	(1250)	UC/DL
MILLSTONE 2	(830)	LIC	FERMI 2	(1123)	UC/DL	HARRIS 4	(915)	UC	ALLENS CREEK 1	(1150)	UR
MILLSTONE 3	(1159)	UC	MIDLAND 1	(492)	UC/DL	MCGUIRE 1	(1180)	UC/DL	<b>VERMONT</b>		
<b>FLORIDA</b>			MIDLAND 2	(818)	UC/DL	MCGUIRE 2	(1180)	UC/DL	VERMONT YANKEE	(514)	LIC
ST. LUCIE 1	(802)	LIC	<b>MINNESOTA</b>			PERKINS 1	(1280)	UR	<b>VIRGINIA</b>		
ST. LUCIE 2	(842)	UC	MONTICELLO	(545)	LIC	PERKINS 2	(1280)	UR	NORTH ANNA 1	(907)	LIC
TURKEY POINT 3	(693)	LIC	PRAIRIE ISLAND 1	(530)	LIC	PERKINS 3	(1280)	UR	NORTH ANNA 2	(907)	UC/DL
TURKEY POINT 4	(693)	LIC	PRAIRIE ISLAND 2	(530)	LIC	<b>OHIO</b>			NORTH ANNA 3	(907)	UC
CRYSTAL RIVER 3	(825)	LIC	<b>MISSISSIPPI</b>			DAVIS-BESSE 1	(906)	LIC	NORTH ANNA 4	(907)	UC
<b>GEORGIA</b>			GRAND GULF 1	(1250)	UC/DL	ZIMMER 1	(810)	UC/DL	SURRY 1	(822)	LIC
HATCH 1	(717)	LIC	GRAND GULF 2	(1250)	UC/DL	PERRY 1	(1205)	UC	SURRY 2	(822)	LIC
HATCH 2	(792)	LIC	YELLOW CREEK 1	(1285)	UC	PERRY 2	(1205)	UC	<b>WASHINGTON</b>		
VOGTLE 1	(1100)	UC	YELLOW CREEK 2	(1285)	UC	<b>OKLAHOMA</b>			WASH. NUCLEAR 1	(1267)	UC
VOGTLE 2	(1100)	UC	<b>MISSOURI</b>			BLACK FOX 1	(1150)	UR/LWA	WASH. NUCLEAR 2	(1103)	UC/DL
<b>ILLINOIS</b>			CALLAWAY 1	(1150)	UC	BLACK FOX 2	(1150)	UR/LWA	WASH. NUCLEAR 3	(1267)	UC
DRESDEN 1	(200)	LIC	CALLAWAY 2	(1150)	UC	<b>OREGON</b>			WASH. NUCLEAR 4	(1242)	UC
DRESDEN 2	(794)	LIC	<b>NEBRASKA</b>			TROJAN	(1130)	LIC	WASH. NUCLEAR 5	(1242)	UC
DRESDEN 3	(794)	LIC	FT. CALHOUN 1	(457)	LIC	PEBBLE SPRINGS 1	(1260)	UR	SKAGIT 1	(1277)	UR
QUAD CITIES 1	(789)	LIC	COOPER STATION	(778)	LIC	PEBBLE SPRINGS 2	(1260)	UR	SKAGIT 2	(1277)	UR
QUAD CITIES 2	(789)	LIC	<b>NEW HAMPSHIRE</b>			<b>PENNSYLVANIA</b>			<b>WISCONSIN</b>		
ZION 1	(1040)	LIC	SEABROOK 1	(1194)	UC	BEAVER VALLEY 1	(852)	LIC	KEAUUNEE	(535)	LIC
ZION 2	(1040)	LIC	SEABROOK 2	(1194)	UC	BEAVER VALLEY 2	(852)	UC	POINT BEACH 1	(497)	LIC
BRAIDWOOD 1	(1120)	UC/DL	<b>NEW JERSEY</b>			PEACH BOTTOM 2	(1065)	LIC	POINT BEACH 2	(497)	LIC
BRAIDWOOD 2	(1120)	UC/DL	<b>NEW MEXICO</b>			PEACH BOTTOM 3	(1065)	LIC	LACROSSE	(50)	LIC
BRYON 1	(1120)	UC/DL	<b>NEW YORK</b>			THREE MILE ISLAND 1	(819)	LIC	LIC=LICENSES TO OPERATE		
BRYON 2	(1120)	UC/DL	<b>NEW YORK</b>			THREE MILE ISLAND 2	(906)	LIC	UC/DL=UNDER CONSTRUCTION/UNDER OL REVIEW		
CLINTON 1	(950)	UC	<b>NEW YORK</b>			LIMERICK 1	(1065)	UC	UC=UNDER CONSTRUCTION/OL APPLICATION NOT RECEIVED		
CLINTON 2	(950)	UC	<b>NEW YORK</b>			LIMERICK 2	(1065)	UC	UR=UNDER CP REVIEW		
LASALLE 1	(1078)	UC/DL	<b>NEW YORK</b>			SUSQUEHANNA 1	(1052)	UC/DL	UR/LWA=UNDER CP REVIEW/LWA ISSUED		
LASALLE 2	(1078)	UC/DL	<b>NEW YORK</b>			SUSQUEHANNA 2	(1052)	UC/DL			

## INDEX TO REACTOR SITES

SITE/NAME (STATE)	APPLICANT	UNITS PER SITE	LIC.	CONST. AUTH.	PLANNED
1. ALLENS CREEK (TEXAS)	HOUSTON LIGHTING & POWER CO.	1			1*
2. ARKANSAS (ARKANSAS)	ARKANSAS POWER & LIGHT CO.	2	2		
3. ARNOLD (IOWA)	IOWA ELECTRIC LIGHT & POWER CO.	1	1		
4. BAILLY (INDIANA)	NORTHERN INDIANA PUB. SER. CO.	1		1	
5. BEAVER VALLEY (PENN)	DUQUESNE LIGHT CO.	2	1	1	
6. BELLEFONTE (ALA)	TENNESSEE VALLEY AUTHORITY	2		2	
7. BIG ROCK POINT (MICH)	CONSUMERS POWER CO.	1	1		
8. BLACK FOX (OKLAHOMA)	PUBLIC SERVICE OF OKLAHOMA	2		2	
9. BRAIDWOOD (ILLINOIS)	COMMONWEALTH EDISON CO.	2		2	
10. BROWNS FERRY (ALA)	TENNESSEE VALLEY AUTHORITY	3	3		
11. BRUNSWICK (N C)	CAROLINA POWER & LIGHT CO.	2	2		
12. BYRON (ILLINOIS)	COMMONWEALTH EDISON CO.	2		2	
13. CALLAWAY (MO.)	UNION ELECTRIC CO.	2		2	
14. CALVERT CLIFFS (MD)	BALTIMORE GAS & ELECTRIC CO.	2	2		
15. CATAWBA (S. C.)	DUKE POWER CO.	2		2	
16. CHEROKEE (S. C.)	DUKE POWER CO.	3		3	
17. CLINCH RIVER (TENN)	TENNESSEE VALLEY AUTHORITY	1			1*
18. CLINTON (ILLINOIS)	ILLINOIS POWER CO.	2		2	
19. COMANCHE PEAK (TEXAS)	TEXAS UTILITIES GENERATING CO.	2		2	
20. CONN YANKEE (CONN)	CONN YANKEE ATOMIC POWER CO.	1	1		
21. COOK (MICH)	INDIANA & MICHIGAN ELECTRIC CO.	2	2		
22. COOPER (NEB)	NEBRASKA PUBLIC POWER DISTRICT	1	1		
23. CRYSTAL RIVER 3 (FLA)	FLORIDA POWER CORP.	1	1		
24. DAVIS BESSE (OHIO)	TOLEDO EDISON CO.	1			
25. DIABLO CANYON (CALIF)	PACIFIC GAS & ELECTRIC CO.	2		2	
26. DRESDEN (ILLINOIS)	COMMONWEALTH EDISON CO.	3	3		
27. FARLEY (ALA)	ALABAMA POWER CO.	2	1	1	
28. FERMI (MICH)	DETROIT EDISON CO.	1		1	
29. FITZPATRICK (N Y)	POWER AUTH OF THE STATE OF N. Y.	1	1		
30. FORKED RIVER (N J)	JERSEY CENTRAL POWER & LIGHT CO.	1		1	
31. FORT CALHOUN (NEB)	OMAHA PUBLIC POWER DISTRICT	1	1		
32. FORT ST. VRAIN (COLO)	PUBLIC SERVICE CO OF COLO.	1	1		
33. GINNA (N. Y.)	ROCHESTER GAS & ELECTRIC CO.	1	1		
34. GRAND GULF (MISS)	MISSISSIPPI POWER & LIGHT CO.	2		2	
35. HARRIS (N. C.)	CAROLINA POWER & LIGHT CO.	4		4	
36. HARTSVILLE (TENN)	TENNESSEE VALLEY AUTHORITY	4		4	
37. HATCH (GEORGIA)	GEORGIA POWER CO.	2	2		
38. HOPE CREEK (N. J.)	PUBLIC SERVICE ELECTRIC & GAS CO.	2		2	
39. HUMBOLDT BAY (CALIF)	PACIFIC GAS & ELECTRIC CO.	1	1		
40. INDIAN POINT (N Y)	CONSOLIDATED EDISON CO.	3	3		
41. JAMESPORT (N.Y.)	LONG ISLAND LIGHTING CO.	2		2	
42. KEWAUNEE (WISC)	WISCONSIN PUBLIC SERVICE CORP.	1	1		
43. LACROSSE (WISC)	DAIRYLAND POWER COOPERATIVE	1	1		
44. LASALLE (ILLINOIS)	COMMONWEALTH EDISON CO.	2		2	
45. LIMERICK (PENN)	PHILADELPHIA ELECTRIC CO.	2		2	
46. MAINE YANKEE (MAINE)	MAINE YANKEE ATOMIC POWER CO.	1	1		
47. MARBLE HILL (INDIANA)	PUBLIC SERVICE COMPANY OF INDIANA	2		2	
48. MCGUIRE (N.C.)	DUKE POWER CO.	2		2	
49. MIDLAND (MICH)	CONSUMERS POWER CO.	2		2	
50. MILLSTONE (CONN)	NORTHEAST NUCLEAR ENERGY CO.	3	2	1	
51. MONTAGUE (MASS)	NORTHEAST NUCLEAR ENERGY CO.	2			2*
52. MONTICELLO (MINN)	NORTHERN STATES POWER CO.	1	1		

## INDEX TO REACTOR SITES

SITE/NAME (STATE)	APPLICANT	UNITS PER SITE	LIC.	CONST. AUTH.	PLANNED
53. NEW HAVEN (N.Y.)	NEW YORK STATE ELECTRIC & GAS	2			2*
54. NINE MILE POINT (N Y )	NIAGARA MOHAWK POWER CORP.	2	1	1	
55. NORTH ANNA (VA)	VIRGINIA ELECTRIC & POWER CO.	4	1	3	
56. OCONEE (S.C.)	DUKE POWER CO.	3	3		
57. OYSTER CREEK (N.J.)	JERSEY CENTRAL POWER & LIGHT CO.	1	1		
58. PALISADES (MICH)	CONSUMERS POWER CO.	1	1		
59. PALO VERDE (ARIZ)	ARIZONA PUBLIC SERVICE CORP.	3		3	
60. PEACH BOTTOM (PENN)	PHILADELPHIA ELECTRIC CO.	2	2		
61. PEBBLE SPRINGS (ORE)	PORTLAND GENERAL ELECTRIC CO.	2			2*
62. PERKINS (N.C.)	DUKE POWER CO.	3			3*
63. PERRY (OHIO)	CLEVELAND ELECTRIC ILLUM.CO.	2		2	
64. PHIPPS BEND (TENN)	TENNESSEE VALLEY AUTHORITY	2		2	
65. PILGRIM (MASS)	BOSTON EDISON CO	2	1		1*
66. POINT BEACH (WISC)	WISCONSIN MICHIGAN POWER CO.	2	2		
67. PRAIRIE ISLAND (MINN)	NORTHERN STATES POWER CO.	2	2		
68. QUAD-CITIES (ILL)	COMMONWEALTH EDISON CO.	2	2		
69. RANCHO SECO (CALIF)	SACRAMENTO MUNICIPAL UTILITY DIST	1	1		
70. RIVER BEND (LA)	GULF STATES POWER CORP.	2		2	
71. ROBINSON (S.C.)	CAROLINA POWER & LIGHT CO.	1	1		
72. ST LUCIE (FLA)	FLORIDA POWER & LIGHT CO.	2	1	1	
73. SALEM (N.J.)	PUBLIC SERVICE ELECTRIC & GAS CO.	2	1	1	
74. SAN ONOFRE (CALIF)	SOUTHERN CALIFORNIA EDISON	3	1	2	
75. SEABROOK (N.H.)	PUBLIC SERVICE CO OF N.H.	2		2	
76. SEQUOYAH (TENN)	TENNESSEE VALLEY AUTHORITY	2		2	
77. SHOREHAM (N Y )	LONG ISLAND LIGHTING CO.	1		1	
78. SKAGIT (WASHINGTON)	PUGET SOUND POWER & LIGHT	2			2*
79. SO TEXAS (TEXAS)	HOUSTON LIGHTING & POWER CO.	2		2	
80. STERLING (N Y)	ROCHESTER GAS & ELECTRIC CO.	1		1	
81. SUMMER (S . C.)	SOUTH CAROLINA ELECTRIC & GAS CO.	1		1	
82. SURRY (VA)	VIRGINIA ELECTRIC & POWER CO.	2	2		
83. SUSQUEHANNA (PA)	PENNSYLVANIA POWER & LIGHT CO.	2		2	
84. THREE MILE ISLAND (PA)	METROPOLITAN EDISON CO.	2	2		
85. TROJAN (ORE)	PORTLAND GENERAL ELECTRIC	1	1		
86. TURKEY POINT (FLA)	FLORIDA POWER & LIGHT CO.	2	2		
87. VERMONT YANKEE (VT)	VERMONT YANKEE NUCLEAR POWER CO.	1	1		
88. VOGTLE (GEORGIA)	GEORGIA POWER CO.	2		2	
89. WPPSS (WASH) SATSOP	WASH PUBLIC POWER SUPPLY SYS.	2		2	
90. WPPSS (WASH) RICH	WASH PUBLIC POWER SUPPLY SYS.	3		3	
91. WATERFORD (LA)	LOUISIANA POWER & LIGHT CO.	1		1	
92. WATTS BAR (TENN)	TENNESSEE VALLEY AUTHORITY	2		2	
93. WOLF CREEK (KANSAS)	KANSAS GAS & ELECTRIC CO.	1		1	
94. YANKEE-ROWE (MASS)	YANKEE ATOMIC ELECTRIC CO.	1	1		
95. YELLOW CREEK (MISS)	TENNESSEE VALLEY AUTHORITY	2		2	
96. ZIMMER (OHIO)	CINCINNATI GAS & ELECTRIC CO.	1		1	
97. ZION (ILLINOIS)	COMMONWEALTH EDISON CO.	2	2		

\* CP APPLICATIONS UNDER REVIEW

177

70

93

14



# INDEX TO REACTOR SITES

## SUMMARY

177 REACTOR UNITS TO BE LOCATED ON 97 SITES:

1 UNIT SITES	-	33
2 UNIT SITES	-	51
3 UNIT SITES	-	10
4 UNIT SITES	-	3

97

### LICENSED TO OPERATE:

	SITES*	UNITS
1 UNIT SITES	- 22	22
2 UNIT SITES	- 19	32
3 UNIT SITES	- 6	15
4 UNIT SITES	- 1	1
		<u>70</u>

### CONSTRUCTION AUTHORIZED:

	SITES*	UNITS
1 UNIT SITES	- 9	9
2 UNIT SITES	- 33	61
3 UNIT SITES	- 5	12
4 UNIT SITES	- 3	11
		<u>93</u>

### PLANNED:

	SITES*	UNITS
1 UNIT SITES	- 2	2
2 UNIT SITES	- 5	9
3 UNIT SITES	- 1	3
4 UNIT SITES	- 0	0
		<u>14</u>

\* SINCE THE SAME SITE COULD CONTAIN A UNIT LICENSED TO OPERATE AS WELL AS A UNIT WITH CONSTRUCTION AUTHORIZATION AND EVEN A PLANNED UNIT THE TOTAL OF THESE SITE NUMBERS COULD BE GREATER THAN THE ACTUAL NUMBER OF INDEPENDENT SITES.

# INDEX TO REACTORS BY UTILITY OWNER

UTILITY	REACTOR	DOCKET	TYPE	MWe	COOLING SOURCE	COOLING METHOD
1. ALABAMA POWER COMPANY	FARLEY 1	05000348	PWR	0829	CHATTAHOOCHEE RIVER	CC FACT
2. ALABAMA POWER COMPANY	FARLEY 2	05000364	PWR	0829	CHATTAHOOCHEE RIVER	FORCED AIR TWR
3. ARIZONA PUBLIC SERVICE	PALO VERDE 1	05000528	PWR	1238	SEWAGE TREATMENT	COOLING TOWERS
4. ARIZONA PUBLIC SERVICE	PALO VERDE 2	05000529	PWR	1238	SEWAGE TREATMENT	COOLING TOWERS
5. ARIZONA PUBLIC SERVICE	PALO VERDE 3	05000530	PWR	1238	SEWAGE TREATMENT	COOLING TOWERS
6. ARKANSAS POWER & LIGHT	ARKANSAS 1	05000313	PWR	0850	LAKE DARDANELLE	ONCE THRU
7. ARKANSAS POWER & LIGHT	ARKANSAS 2	05000368	PWR	0912	ARKANSAS RIVER	CC HNDCT
8. BALTIMORE GAS & ELECTRIC	CALVERT CLIFFS 1	05000317	PWR	0845	CHESAPEAKE BAY	ONCE THRU
9. BALTIMORE GAS & ELECTRIC	CALVERT CLIFFS 2	05000318	PWR	0845	CHESAPEAKE BAY	ONCE THRU
10. BOSTON EDISON	PILGRIM 1	05000293	BWR	0670	CAPE COD BAY	ONCE THRU
11. BOSTON EDISON	PILGRIM 2	05000471	PWR	1180	CAPE COD BAY	ONCE THRU
12. CAROLINA POWER & LIGHT	BRUNSWICK 1	05000325	BWR	0821	CAPE FEAR ESTUARY	ONCE THRU
13. CAROLINA POWER & LIGHT	BRUNSWICK 2	05000324	BWR	0821	CAPE FEAR ESTUARY	ONCE THRU
14. CAROLINA POWER & LIGHT	HARRIS 1	05000400	PWR	0900	MAKEUP RESERVOIR	NDCT
15. CAROLINA POWER & LIGHT	HARRIS 2	05000401	PWR	0900	MAKEUP RESERVOIR	NDCT
16. CAROLINA POWER & LIGHT	HARRIS 3	05000402	PWR	0900	MAKEUP RESERVOIR	NDCT
17. CAROLINA POWER & LIGHT	HARRIS 4	05000403	PWR	0900	MAKEUP RESERVOIR	NDCT
18. CAROLINA POWER & LIGHT	ROBINSON 2	05000261	PWR	0700	ROBINSON IMPOUNDMENT	CC ART
19. CINCINNATI GAS & ELECTRIC	ZIMMER 1	05000358	PWR	0810	OHIO RIVER	COOLING TOWER
20. CLEVELAND ELECTRIC ILLUMINATING	PERRY 1	05000440	BWR	1205	LAKE ERIE	CC HNDCT
21. CLEVELAND ELECTRIC ILLUMINATING	PERRY 2	05000441	BWR	1205	LAKE ERIE	CC HNDCT
22. COMMONWEALTH EDISON	BRAIDWOOD 1	05000456	PWR	1120	KANKAKEE RIVER	CC ART
23. COMMONWEALTH EDISON	BRAIDWOOD 2	05000457	PWR	1120	KANKAKEE RIVER	CCART
24. COMMONWEALTH EDISON	BYRON 1	05000454	PWR	1120	ROCK RIVER	CC HNDCT
25. COMMONWEALTH EDISON	BYRON 2	05000455	PWR	1120	ROCK RIVER	CCHNDCT
26. COMMONWEALTH EDISON	DRESDEN 1	05000010	BWR	0200	KANKAKEE RIVER	ONCE THRU
27. COMMONWEALTH EDISON	DRESDEN 2	05000237	BWR	0809	KANKAKEE RIVER	COOLING LAKE
28. COMMONWEALTH EDISON	DRESDEN 3	05000249	BWR	0809	KANKAKEE RIVER	COOLING LAKE
29. COMMONWEALTH EDISON	LASALLE 1	05000373	BWR	1078	RESERVOIR	POND
30. COMMONWEALTH EDISON	LASALLE 2	05000374	BWR	1078	RESERVOIR	POND
31. COMMONWEALTH EDISON	QUAD CITIES 1	05000254	BWR	0800	MISSISSIPPI RIVER	ONCE THRU
32. COMMONWEALTH EDISON	QUAD CITIES 2	05000265	BWR	0800	MISSISSIPPI RIVER	ONCE THRU
33. COMMONWEALTH EDISON	ZION 1	05000295	PWR	1040	LAKE MICHIGAN	ONCE THRU
34. COMMONWEALTH EDISON	ZION 2	05000304	PWR	1040	LAKE MICHIGAN	ONCE THRU
35. CONNECTICUT YANKEE ATOMIC POWER	HADDAM NECK	05000213	PWR	0575	CONNECTICUT RIVER	ONCE THRU
36. CONSOLIDATED EDISON	INDIAN POINT 1	05000003	PWR	0265	HUDSON RIVER	ONCE THRU
37. CONSOLIDATED EDISON	INDIAN POINT 2	05000247	PWR	0873	HUDSON RIVER	ONCE THRU
38. CONSOLIDATED EDISON	INDIAN POINT 3	05000286	PWR	0965	HUDSON RIVER	ONCE THRU
39. CONSUMERS POWER	BIG ROCK POINT 1	05000155	BWR	0075	LAKE MICHIGAN	ONCE THRU
40. CONSUMERS POWER	MIDLAND 1	05000329	PWR	0458	TITTABAWASSEE RIVER	CLOSED CYCLE
41. CONSUMERS POWER	MIDLAND 2	05000330	PWR	0808	TITTABAWASSEE RIVER	CLOSED CYCLE
42. CONSUMERS POWER	PALISADES	05000255	PWR	0700	LAKE MICHIGAN	COOLING TOWERS
43. DAIRYLAND POWER	LA CROSSE	05000409	BWR	0050	MISSISSIPPI RIVER	ONCE THRU
44. DETROIT EDISON	ENRICO FERMI 2	05000341	BWR	1093	LAKE ERIE	ONCE THRU
45. DUKE POWER	CATAWBA 1	05000413	PWR	1153	LAKE WYLIE	HNDCT
46. DUKE POWER	CATAWBA 2	05000414	PWR	1153	LAKE WYLIE	HNDCT
47. DUKE POWER	CHEROKEE 1	05000491	PWR	1280	BROAD RIVER	CLOSED CYCLE
48. DUKE POWER	CHEROKEE 2	05000492	PWR	1280	BROAD RIVER	CLOSED CYCLE
49. DUKE POWER	CHEROKEE 3	05000493	PWR	1280	BROAD RIVER	CLOSED CYCLE
50. DUKE POWER	MCGUIRE 1	05000369	PWR	1180	LAKE NORMAN	ONCE THRU
51. DUKE POWER	MCGUIRE 2	05000370	PWR	1180	LAKE NORMAN	ONCE THRU
52. DUKE POWER	OCONEE 1	05000269	PWR	0871	LAKE KEOWEE	ONCE THRU
53. DUKE POWER	OCONEE 2	05000270	PWR	0871	LAKE KEOWEE	ONCE THRU
54. DUKE POWER	OCONEE 3	05000287	PWR	0971	LAKE KEOWEE	ONCE THRU

## INDEX TO REACTORS BY UTILITY OWNER

UTILITY	REACTOR	DOCKET TYPE	MWe	COOLING SOURCE	COOLING METHOD
55. DUKE POWER	PERKINS 1	05000488	PWR	1280 YADKIN RIVER	CLOSED CYCLE
56. DUKE POWER	PERKINS 2	05000489	PWR	1280 YADKIN RIVER	CLOSED CYCLE
57. DUKE POWER	PERKINS 3	05000490	PWR	1280 YADKIN RIVER	CLOSED CYCLE
58. DUQUESNE LIGHT	BEAVER VALLEY 1	05000334	PWR	0852 OHIO RIVER	CC HNDCT
59. DUQUESNE LIGHT	BEAVER VALLEY 2	05000412	PWR	0852 OHIO RIVER	HNDCT
60. FLORIDA POWER & LIGHT	ST LUCIE 1	05000335	PWR	0907 ATLANTIC OCEAN	ONCE THRU
61. FLORIDA POWER & LIGHT	ST LUCIE 2	05000389	PWR	0810 ATLANTIC OCEAN	ONCE THRU
62. FLORIDA POWER & LIGHT	TURKEY POINT 3	05000250	PWR	0666 BISCAYNE BAY	CLOSED CANAL
63. FLORIDA POWER & LIGHT	TURKEY POINT 4	05000251	PWR	0666 BISCAYNE BAY	CLOSED CANAL
64. FLORIDA POWER CORPORATION	CRYSTAL RIVER 3	05000302	PWR	0825 GULF OF MEXICO	ONCE THRU
65. GEORGIA POWER	HATCH 1	05000321	BWR	0786 ALTAMAHA RIVER	COOLING TOWER
66. GEORGIA POWER	HATCH 2	05000366	BWR	0795 ALTAMAHA RIVER	COOLING TOWER
67. GEORGIA POWER	VOGTLE 1	05000424	PWR	1113 SAVANNAH RIVER	CCCT
68. GEORGIA POWER	VOGTLE 2	05000425	PWR	1113 SAVANNAH RIVER	CCCT
69. GULF STATES UTILITIES	RIVER BEND 1	05000458	BWR	0934 MISSISSIPPI RIVER	MDCT
70. GULF STATES UTILITIES	RIVER BEND 2	05000459	BWR	0934 MISSISSIPPI RIVER	MDCT
71. HOUSTON LIGHTING & POWER	ALLENS CREEK 1	05000466	BWR	1150 BRAZOS RIVER	LAKE POND
72. HOUSTON LIGHTING & POWER	SOUTH TEXAS 1	05000498	PWR	1250 COLORADO RIVER	CC
73. HOUSTON LIGHTING & POWER	SOUTH TEXAS 2	05000499	PWR	1250 COLORADO RIVER	CC
74. ILLINOIS POWER	CLINTON 1	05000461	BWR	0933 SALT CREEK	ONCE THRU
75. ILLINOIS POWER	CLINTON 2	05000462	BWR	0933 SALT CREEK	ONCE THRU
76. INDIANA & MICHIGAN ELECTRIC	COOK 1	05000315	PWR	1060 LAKE MICHIGAN	ONCE THRU
77. INDIANA & MICHIGAN ELECTRIC	COOK 2	05000316	PWR	1060 LAKE MICHIGAN	ONCE THRU
78. IOWA ELECTRIC POWER & LIGHT	DUANE ARNOLD	05000331	BWR	0535 CEDAR RAPIDS RIVER	CC FDCT
79. JERSEY CENTRAL POWER & LIGHT	FORKED RIVER	05000363	PWR	1070	ONCE THRU
80. JERSEY CENTRAL POWER & LIGHT	OYSTER CREEK 1	05000219	BWR	0640 BARNEGAT BAY	ONCE THRU
81. KANSAS GAS & ELECTRIC	WOLF CREEK 1	05000482	PWR	1150	COOLING LAKE
82. LONG ISLAND LIGHTING	JAMESPORT 1	05000516	PWR	1150 LONG ISLAND SOUND	ONCE THRU
83. LONG ISLAND LIGHTING	JAMESPORT 2	05000517	PWR	1150 LONG ISLAND SOUND	ONCE THRU
84. LONG ISLAND LIGHTING	SHOREHAM	05000322	BWR	0819 LONG ISLAND SOUND	ONCE THRU
85. LOUISIANA POWER & LIGHT	WATERFORD 3	05000382	PWR	1113 MISSISSIPPI RIVER	ONCE THRU
86. MAINE YANKEE ATOMIC POWER	MAINE YANKEE	05000309	PWR	0790 BACK RIVER	ONCE THRU
87. METROPOLITAN EDISON	THREE MILE ISLAND 1	05000289	PWR	0819 SUSQUEHANNA RIVER	CC,HNDCT
88. METROPOLITAN EDISON	THREE MILE ISLAND 2	05000320	PWR	0906 SUSQUEHANNA RIVER	CC,HNDCT
89. MISSISSIPPI POWER & LIGHT	GRAND GULF 1	05000416	BWR	1250 MISSISSIPPI RIVER	CCHNDCT
90. MISSISSIPPI POWER & LIGHT	GRAND GULF 2	05000417	BWR	1250 MISSISSIPPI RIVER	CCHNDCT
91. NEBRASKA PUBLIC POWER DISTRICT	COOPER STATION	05000298	BWR	0778 MISSOURI RIVER	ONCE THRU
92. NY STATE ELECTRIC & GAS CO.	NEW HAVEN 1	05000596	PWR	1250 UNKNOWN	
93. NY STATE ELECTRIC & GAS CO.	NEW HAVEN 2	05000597	PWR	1250 UNKNOWN	
94. NIAGARA MOHAWK POWER	NINE MILE POINT 1	05000220	BWR	0610 LAKE ONTARIO	ONCE THRU
95. NIAGARA MOHAWK POWER	NINE MILE POINT 2	05000410	BWR	1080 LAKE ONTARIO	ONCE THRU
96. NORTHEAST NUCLEAR ENERGY	MILLSTONE 1	05000245	BWR	0652 LONG ISLAND SOUND	ONCE THRU
97. NORTHEAST NUCLEAR ENERGY	MILLSTONE 2	05000336	PWR	0828 LONG ISLAND SOUND	ONCE THRU
98. NORTHEAST NUCLEAR ENERGY	MILLSTONE 3	05000423	PWR	1156 NANTIC BAY	ONCE THRU
99. NORTHEAST NUCLEAR ENERGY	MONTAGUE 1	05000496	BWR	1150 CONNECTICUT RIVER	CLSD LP CL TWR
100. NORTHEAST NUCLEAR ENERGY	MONTAGUE 2	05000497	BWR	1150 CONNECTICUT RIVER	CLSD LP CL TWR
101. NORTHERN INDIANA PUBLIC SERVICE	BAILLY 1	05000367	BWR	0645 LAKE MICHIGAN	CC,HNDCT
102. NORTHERN STATES POWER	MONTICELLO	05000263	BWR	0545 MISSISSIPPI RIVER	VC, MDCT
103. NORTHERN STATES POWER	PRAIRIE ISLAND 1	05000282	PWR	0537 MISSISSIPPI RIVER	COOLING TOWERS
104. NORTHERN STATES POWER	PRAIRIE ISLAND 2	05000306	PWR	0536 MISSISSIPPI RIVER	COOLING TOWERS
105. OMAHA PUBLIC POWER DISTRICT	FORT CALHOUN 1	05000285	PWR	0457 MISSOURI RIVER	ONCE THRU
106. PACIFIC GAS & ELECTRIC	DIABLO CANYON 1	05000275	PWR	1084 PACIFIC OCEAN	ONCE THRU
107. PACIFIC GAS & ELECTRIC	DIABLO CANYON 2	05000323	PWR	1106 PACIFIC OCEAN	ONCE THRU
108. PACIFIC GAS & ELECTRIC	HUMBOLDT BAY	05000133	BWR	0065 PACIFIC OCEAN	ONCE THRU

## INDEX TO REACTORS BY UTILITY OWNER

UTILITY	REACTOR	DOCKET TYPE	MWe	COOLING SOURCE	COOLING METHOD	
109.	PENNSYLVANIA POWER & LIGHT	SUSQUEHANNA 1	05000387	BWR	1050 SUSQUEHANNA RIVER	CC,HNDCT
110.	PENNSYLVANIA POWER & LIGHT	SUSQUEHANNA 2	05000388	BWR	1050 SUSQUEHANNA RIVER	CC,HNDCT
111.	PHILADELPHIA ELECTRIC	LIMERICK 1	05000352	BWR	1065 SCHUYLKILL RIVER	CC HNDCT
112.	PHILADELPHIA ELECTRIC	LIMERICK 2	05000353	BWR	1065 SCHUYLKILL RIVER	CC HNDCT
113.	PHILADELPHIA ELECTRIC	PEACH BOTTOM 2	05000277	BWR	1065 CONOWINGO POND	VC,MDCT
114.	PHILADELPHIA ELECTRIC	PEACH BOTTOM 3	05000278	BWR	1065 CONOWINGO POND	VC,MDCT
115.	PORTLAND GENERAL ELECTRIC	PEBBLE SPRINGS 1	05000514	PWR	1260 COLUMBIA RIVER	CLOSED POND
116.	PORTLAND GENERAL ELECTRIC	PEBBLE SPRINGS 2	05000515	PWR	1260 COLUMBIA RIVER	CLOSED POND
117.	PORTLAND GENERAL ELECTRIC	TROJAN	05000344	PWR	1130 COLUMBIA RIVER	COOLING TOWERS
118.	POWER AUTHORITY OF STATE OF N.Y.	FITZPATRICK	05000333	BWR	0821 LAKE ONTARIO	ONCE THRU
119.	PROJECT MANAGEMENT CORP./TVA	CLINCH RIVER	05000537	LMFBR	0350 CLINCH RIVER	
120.	PUBLIC SERVICE GAS & ELECTRIC	HOPE CREEK 1	05000354	BWR	1067 DELAWARE RIVER	NDCT
121.	PUBLIC SERVICE GAS & ELECTRIC	HOPE CREEK 2	05000355	BWR	1067 DELAWARE RIVER	NDCT
122.	PUBLIC SERVICE GAS & ELECTRIC	SALEM 1	05000272	PWR	1090 DELAWARE RIVER	ONCE THRU
123.	PUBLIC SERVICE GAS & ELECTRIC	SALEM 2	05000311	PWR	1115 DELAWARE RIVER	ONCE THRU
124.	PUBLIC SERVICE OF COLORADO	FORT ST VRAIN	05000267	HTGR	0330 SO. PLATTE RIVER	CLOSED HELIUM
125.	PUBLIC SERVICE OF INDIANA	MARBLE HILL 1	05000546	PWR	1130 OHIO RIVER	CMNDCT
126.	PUBLIC SERVICE OF INDIANA	MARBLE HILL 2	05000547	PWR	1130 OHIO RIVER	CMNDCT
127.	PUBLIC SERVICE OF NEW HAMPSHIRE	SEABROOK 1	05000443	PWR	1200 ATLANTIC OCEAN	ONCE THRU
128.	PUBLIC SERVICE OF NEW HAMPSHIRE	SEABROOK 2	05000444	PWR	1200 ATLANTIC OCEAN	ONCE THRU
129.	PUBLIC SERVICE OF OKLAHOMA	BLACK FOX 1	05000556	BWR	1150 VERIGRIS RIVER	MECH DR CL TWR
130.	PUBLIC SERVICE OF OKLAHOMA	BLACK FOX 2	05000557	BWR	1150 VERIGRIS RIVER	MECH DR CL TWR
131.	PUGET SOUND POWER & LIGHT	SKAGIT 1	05000522	BWR	1277 RANNEY COLLECTOR	COOLING TOWERS
132.	PUGET SOUND POWER & LIGHT	SKAGIT 2	05000523	BWR	1277 RANNEY COLLECTOR	COOLING TOWERS
133.	ROCHESTER GAS & ELECTRIC	GINNA	05000244	PWR	0490 LAKE ONTARIO	ONCE THRU
134.	ROCHESTER GAS & ELECTRIC	STERLING 1	05000485	PWR	1150 COOLING LAKE	
135.	SACRAMENTO MUN. UTIL. DISTRICT	RANCHO SECO 1	05000312	PWR	0913 FOLSON CANAL	COOLING TOWERS
136.	SOUTH CAROLINA ELECTRIC & GAS	SUMNER 1	05000395	PWR	0900 MONTICELLO RESERVOIR	ONCE THRU
137.	SOUTHERN CALIFORNIA EDISON	SAN ONOFRE 1	05000206	PWR	0430 PACIFIC OCEAN	ONCE THRU
138.	SOUTHERN CALIFORNIA EDISON	SAN ONOFRE 2	05000361	PWR	1140 PACIFIC OCEAN	ONCE THRU
139.	SOUTHERN CALIFORNIA EDISON	SAN ONOFRE 3	05000362	PWR	1140 PACIFIC OCEAN	ONCE THRU
140.	TENNESSEE VALLEY AUTHORITY	BELLEFONTE 1	05000438	PWR	1213 GUNTERVILLE RES	CCHNDCT
141.	TENNESSEE VALLEY AUTHORITY	BELLEFONTE 2	05000439	PWR	1213 GUNTERVILLE RES	CCHNDCT
142.	TENNESSEE VALLEY AUTHORITY	BROWNS FERRY 1	05000259	BWR	1067 TENNESSEE RIVER	ONCE THRU
143.	TENNESSEE VALLEY AUTHORITY	BROWNS FERRY 2	05000260	BWR	1067 TENNESSEE RIVER	ONCE THRU
144.	TENNESSEE VALLEY AUTHORITY	BROWNS FERRY 3	05000296	BWR	1067 TENNESSEE RIVER	ONCE THRU
145.	TENNESSEE VALLEY AUTHORITY	HARTSVILLE 1	05000518	BWR	1233 COOLING TOWERS	CCNDCT
146.	TENNESSEE VALLEY AUTHORITY	HARTSVILLE 2	05000519	BWR	1233 COOLING TOWERS	CCNDCT
147.	TENNESSEE VALLEY AUTHORITY	HARTSVILLE 3	05000520	BWR	1233 COOLING TOWERS	CCNDCT
148.	TENNESSEE VALLEY AUTHORITY	HARTSVILLE 4	05000521	BWR	1233 COOLING TOWERS	CCNDCT
149.	TENNESSEE VALLEY AUTHORITY	PHIPPS BEND 1	05000553	BWR	1233 HOLSTON RIVER	
150.	TENNESSEE VALLEY AUTHORITY	PHIPPS BEND 2	05000554	BWR	1233 HOLSTON RIVER	
151.	TENNESSEE VALLEY AUTHORITY	SEQUOYAH 1	05000327	PWR	1148 CHICKAMAUGA LAKE	ONCE THRU
152.	TENNESSEE VALLEY AUTHORITY	SEQUOYAH 2	05000328	PWR	1148 CHICKAMAUGA LAKE	ONCE THRU
153.	TENNESSEE VALLEY AUTHORITY	WATTS BAR 1	05000390	PWR	1177 TENNESSEE RIVER	CC,HNDCT
154.	TENNESSEE VALLEY AUTHORITY	WATTS BAR 2	05000391	PWR	1177 TENNESSEE RIVER	CC,HNDCT
155.	TENNESSEE VALLEY AUTHORITY	YELLOW CREEK 1	05000566	PWR	1300 YELLOW CRK EMBAY.	MDCT
156.	TENNESSEE VALLEY AUTHORITY	YELLOW CREEK 2	05000567	PWR	1300 YELLOW CRK EMBAY.	MDCT
157.	TEXAS UTILITIES GENERATING	COMANCHE PEAK 1	05000445	PWR	1150 SQUAW CREEK RES	CC ART
158.	TEXAS UTILITIES GENERATING	COMANCHE PEAK 2	05000446	PWR	1150 SQUAW CREEK RES	CC ART
159.	TOLEDO EDISON	DAVIS-BESSE 1	05000346	PWR	0906 LAKE ERIE	HSDCT
160.	UNION ELECTRIC	CALLAWAY 1	05000483	PWR	1120 COOLING POND	
161.	UNION ELECTRIC	CALLAWAY 2	05000485	PWR	1120 COOLING POND	
162.	VERMONT YANKEE NUCLEAR POWER	VERMONT YANKEE 1	05000271	BWR	0514 CONNECTICUT RIVER	CC CT

## INDEX TO REACTORS BY UTILITY OWNER

UTILITY	REACTOR	DOCKET TYPE	MWe	COOLING SOURCE	COOLING METHOD
163. VIRGINIA ELECTRIC & POWER	NORTH ANNA 1	05000338	PWR	0907 LAKE ANNA	ONCE THRU
164. VIRGINIA ELECTRIC & POWER	NORTH ANNA 2	05000339	PWR	0907 LAKE ANNA	ONCE THRU
165. VIRGINIA ELECTRIC & POWER	NORTH ANNA 3	05000404	PWR	0907 LAKE ANNA	ONCE THRU
166. VIRGINIA ELECTRIC & POWER	NORTH ANNA 4	05000405	PWR	0907 LAKE ANNA	ONCE THRU
167. VIRGINIA ELECTRIC & POWER	SURRY 1	05000280	PWR	0788 JAMES RIVER	ONCE THRU
168. VIRGINIA ELECTRIC & POWER CO.	SURRY 2	05000281	PWR	0788 JAMES RIVER	ONCE THRU
169. WASHINGTON P.P.S.S.	WASHINGTON NUCLEAR 1	05000460	PWR	1218 COLUMBIA RIVER	ONCE THRU
170. WASHINGTON P.P.S.S.	WASHINGTON NUCLEAR 2	05000397	BWR	1103 MECHANICAL TOWERS	COOLING TOWERS
171. WASHINGTON P.P.S.S.	WASHINGTON NUCLEAR 3	05000508	PWR	1242 CHEHALIS RIVER	NATURAL DRAFT
172. WASHINGTON P.P.S.S.	WASHINGTON NUCLEAR 4	05000513	PWR	1218 COLUMBIA RIVER	ONCE THRU
173. WASHINGTON P.P.S.S.	WASHINGTON NUCLEAR 5	05000509	PWR	1242 CHEHALIS RIVER	NATURAL DRAFT
174. WISCONSIN PUBLIC SERVICE	KEWAUNEE	05000305	PWR	0541 LAKE MICHIGAN	ONCE THRU
175. WISCONSIN-MICHIGAN ELECTRIC	POINT BEACH 1	05000266	PWR	0497 LAKE MICHIGAN	ONCE THRU
176. WISCONSIN-MICHIGAN ELECTRIC	POINT BEACH 2	05000301	PWR	0497 LAKE MICHIGAN	ONCE THRU
177. YANKEE ATOMIC ELECTRIC	YANKEE-ROWE 1	05000029	PWR	0175 DEERFIELD RIVER	ONCE THRU

CC HNDCT = Closed cycle hyperbolic natural draft cooling tower  
 CC = Closed cycle  
 MDCT = Mechanical draft cooling tower  
 NDCT = Natural draft cooling tower  
 VCMDCT = Variable cycle mechanical draft cooling tower

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