

NUREG-0380

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SEPTEMBER 21, 1979

PROGRAM

SUMMARY

POOR ORIGINAL

REPORT

U.S. NUCLEAR REGULATORY COMMISSION



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POOR ORIGINAL

1125 002

**NUCLEAR
REGULATORY
COMMISSION**

**PROGRAM
SUMMARY
REPORT**

PREPARED BY :

OFFICE OF MANAGEMENT AND PROGRAM ANALYSIS

1125 003

FOREWORD

120th 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 ELEVEN SECTIONS:

- SECTION 1 - NUCLEAR POWER PLANTS IN THE UNITED STATES
- SECTION 2 - OPERATING NUCLEAR POWER PLANTS
- SECTION 3 - REACTORS UNDER CONSTRUCTION
- SECTION 4 - CONSTRUCTION PERMIT APPLICATIONS & SPECIAL PROJECTS UNDER NRC REVIEW
- SECTION 5 - ACRS AND ASLBP
- SECTION 6 - NUCLEAR MATERIALS
- SECTION 7 - STANDARDS AND REGULATIONS
- SECTION 8 - RESEARCH PROJECTS
- SECTION 9 - FOREIGN REACTORS
- SECTION 10 - EXEMPTIONS
- SECTION 11 - CASELOAD PROJECTIONS
- SECTION 12 - EMERGENCY PREPAREDNESS

1125 004

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	Pre-docketed 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

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HIGHLIGHTS

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HIGHLIGHTS

*****BROWN BOOK HIGHLIGHTS*****

STATUS OF NUCLEAR POWER PLANTS (PG 1-1)

91 UNITS HAVE CONSTRUCTION PERMITS
25 UNITS ARE UNDER CONSTRUCTION PERMIT REVIEW
6 UNITS HAVE BEEN ORDERED OR PUBLICLY ANNOUNCED
192 TOTAL UNITS

NEW APPLICATIONS FORECAST (PG 1-16)

AS OF AUGUST 31, 1979
NO NEW APPLICATIONS WERE TENDERED IN AUGUST
10 NEW APPLICATIONS ARE PROJECTED TO BE TENDERED IN FY 1979
27 NEW APPLICATIONS ARE PROJECTED TO BE TENDERED DURING FY 1979 & 80

MONTHLY HIGHLIGHTS - I & E (PG 2-4/5)

67 UNITS WERE IN COMMERCIAL OPERATION IN JULY 1979
2 UNITS WERE IN POWER ASCENSION
1 UNIT WAS UNAVAILABLE FOR POWER PRODUCTION
70 UNITS TOTAL

33 UNITS EXPERIENCED SHUTDOWNS GREATER THAN 72 HOURS IN JULY 1979
8 UNITS HAVE BEEN DERATED

OPERATING LICENSE FORECAST (PG 2-6)

NO OPERATING LICENSES WERE ISSUED IN JULY
1 OPERATING LICENSE IS EXPECTED TO BE ISSUED IN FY 1979
8 OPERATING LICENSES ARE EXPECTED TO BE ISSUED DURING FY '79 & '80

DURING AUGUST, NO MWE HAVE BEEN ADDED TO THE NUCLEAR POWER CURVE
52,952 CUMULATIVE MWE WERE AUTHORIZED BY CLOSE OF FY 78

NUCLEAR POWER PLANTS UNDER CONSTRUCTION (PG 3-6)

83 PLANTS ARE ACTIVELY UNDER CONSTRUCTION

CONSTRUCTION AUTHORIZATION FORECAST (PG 4-2)

0 CONSTRUCTION AUTHORIZATIONS WERE GRANTED IN AUGUST
2 UNITS ARE EXPECTED TO HAVE CONSTRUCTION AUTHORIZED IN FY 1979
3 UNITS ARE ESTIMATED TO BE AUTHORIZED CONSTRUCTION IN FY '79 & '80

LIMITED WORK AUTHORIZATIONS (PG 4-3/4)

NO UNITS WERE AUTHORIZED CONSTRUCTION UNDER AN LWA IN AUGUST
0 LWA'S IS ESTIMATED TO BE ISSUED DURING FY '79
0 LWA'S IS ESTIMATED TO BE ISSUED THRU FY 1980
AS OF AUGUST 3, 1979, 27 LWA'S AND 12 LWA-2'S WERE ISSUED

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HIGHLIGHTS

CONSTRUCTION PERMIT FORECAST (PG 4-5)

- NO CONSTRUCTION PERMIT REVIEWS WERE COMPLETED IN AUGUST
- 2 CONSTRUCTION PERMIT REVIEWS ARE EXPECTED TO BE COMPLETED IN FY 79
- 3 CP REVIEWS ARE ESTIMATED FOR COMPLETION THRU FY 1980

DURATION SUMMARY (PG 4-6 THRU 4-9)

AS OF AUGUST 31, 1979

- 1 CONSTRUCTION PERMIT APPLICATION WAS DOCKETED.
- 5 SAFETY EVALUATION SUPPLEMENTS HAVE BEEN ISSUED TO DATE IN FY 79
- 2 FINAL ENVIRONMENTAL STATEMENTS HAVE BEEN ISSUED TO DATE IN FY 79

SPECIAL PROJECTS (PG 4-10)

AS OF AUGUST 31, 1979

- NO SPECIAL PROJECT WAS COMPLETED IN AUGUST
- 3 SPECIAL PROJECTS ARE ESTIMATED FOR COMPLETION IN FY 79

NEW APPLICATIONS RECEIVED - NMSS (PG 6-2/4)

AS OF JULY 13, 1979, 30 APPLICATIONS WERE RECEIVED

DIVISION OF FUEL CYCLE & MATERIAL SAFETY (PG 6-8/9)

- 24 MAJOR CASES HAVE BEEN COMPLETED AS OF JULY 15, 1979
- 262 MINOR CASES HAVE BEEN COMPLETED THROUGH JULY 31, 1979

MONTHLY HIGHLIGHTS - STANDARDS DEVELOPMENT (PG 7-3)

DURING AUGUST

- 1 PROPOSED RULE WAS ISSUED
- 1 EFFECTIVE RULE WAS PUBLISHED
- 2 REVISED GUIDES WERE PUBLISHED
- 2 ANSI STANDARDS WERE PUBLISHED
- 3 NUREG REPORTS WERE PUBLISHED

EMERGENCY PREPAREDNESS (PG 12-2)

AS OF SEPTEMBER 7, 1979, 12 STATES' PLANS HAVE RECEIVED NRC CONCURRENCE

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

DELETIONS

ADDITIONS

SECTION XII - EMERGENCY PREPAREDNESS

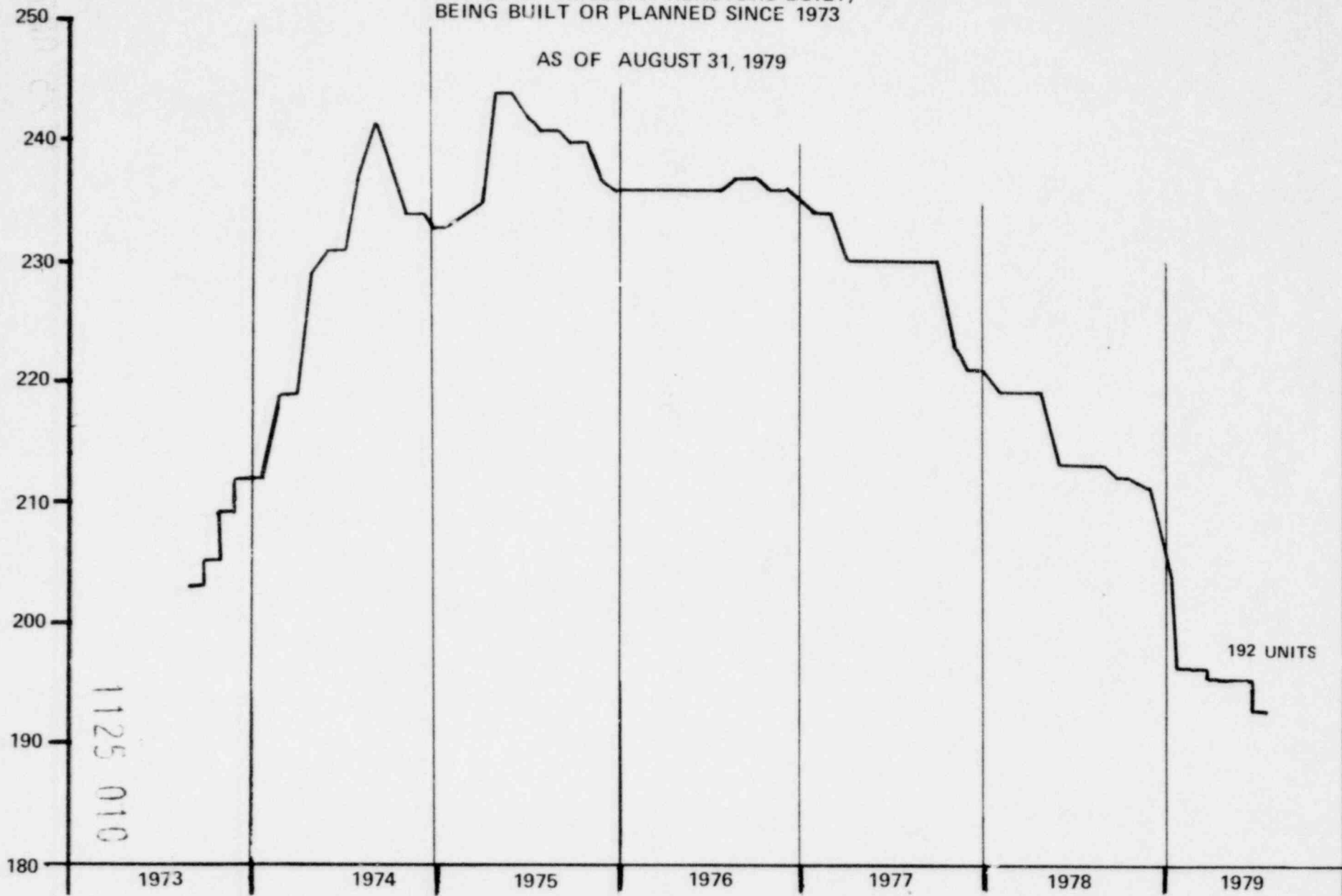
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SECTION I -

NUCLEAR POWER PLANTS IN THE UNITED STATES

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

AS OF AUGUST 31, 1979



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

STATUS OF NUCLEAR POWER PLANTS

BWR	PWR	OTHERS	UNKNOWN	TOTAL
26	43	1		70
28	63			91
7	17	1		25
2	2			4
			2	2
63	125	2	2	192

1 HTGR
1 LMFBR

STATUS OF NUCLEAR POWER PLANTS — AUG. 31, 1979

Number Of Units	Rated Capacity (MWe)
* 70 LICENSED TO OPERATE	51,000
** 91 CONSTRUCTION PERMIT GRANTED	100,000
37 Under Operating License Review	40,000
54 Operating License Not Yet Applied For	60,000
25 UNDER CONSTRUCTION PERMIT REVIEW	23,000
** 4 Site Work Authorized, Safety Review in Process	4,000
21 Other Units Under CP Review	25,000
4 ORDERED	5,000
2 PUBLICLY ANNOUNCED	2,000
192 TOTAL	187,000

*To date there have been 479 reactor years of operation. Not included are two operable DOE owned reactors with a combined capacity of 940 MWe

**Total of units authorized construction (Construction Permit Granted plus Site Work Authorized): 95 units, 104,000 MWe

ACTIVE AND PENDING APPLICATIONS FOR CENTRAL STATION NUCLEAR POWER PLANTS AND SPECIAL PROJECTS AUGUST 31, 1979

	NO. OF APPLICATIONS	NO. OF UNITS
A. OPERATING LICENSES -	-	70
B. UNDER OPERATING LICENSE REVIEW	23	37
C. UNDER CONSTRUCTION BUT OPERATING LICENSE APPLICATIONS NOT ACCEPTED	28	54
D. UNDER CONSTRUCTION PERMIT REVIEW	14	25
E. OTHER ORDERED OR ANNOUNCED 1/	3	6
F. SPECIAL PROJECTS	25	--
G. PRELIMINARY DESIGN APPROVALS ISSUED	--	--

NOTE: LWAS HAVE BEEN ISSUED FOR 4 UNITS CURRENTLY UNDER REVIEW FOR CONSTRUCTION PERMITS.

1/BASED UPON FORMAL UTILITY ANNOUNCEMENTS.

LICENSED TO OPERATE

DATE OF ISSUANCE
OF FULL POWER
LICENSE

A. LICENSED TO OPERATE

DATE OF ISSUANCE
OF FULL POWER
LICENSE

A. LICENSED TO OPERATE

1. COMMONWEALTH EDISON CO.
DRESDEN 1 (BWR) 06/02/60 POL
2. YANKEE ATOMIC POWER CO.
YANKEE-ROWE (PWR) 10/14/60 FTL
3. CONSOLIDATED EDISON CO.
INDIAN POINT 1 (PWR) 02/29/60 POL
4. PACIFIC GAS & ELECTRIC CO.
HUMBOLDT BAY (BWR) 05/23/61 FTL
5. CONSUMER POWER CO.
BIG ROCK POINT (BWR) 03/26/62 POL*
6. SOUTHERN CALIFORNIA EDISON CO.
SAN ONOFRE 1 (PWR) 08/28/62 POL
7. CONNECTICUT YANKEE ATOMIC POWER CO.
HADDAM NECK (PWR) 01/21/69 FTL
8. DAIRYLAND COOPERATIVE POWER
LACROSSE (BWR) 08/30/62 POL
9. JERSEY CENTRAL POWER & LIGHT CO.
OYSTER CREEK 1 (BWR) 05/01/64 FTL
10. NIAGARA MOHAWK POWER CORP.
NINE MILE POINT 1 (BWR) 03/27/67 POL*
11. ROCHESTER GAS & ELECTRIC CORP.
R.E. GINNA (PWR) 06/30/67 POL
12. COMMONWEALTH EDISON CO.
DRESDEN 2 (BWR) 12/27/74 FTL
13. CAROLINA POWER & LIGHT CO.
H.B. ROBINSON 2 (PWR) 07/03/67 POL*
14. NORTHERN STATES POWER CO.
MONTICELLO (BWR) 04/09/69 POL*
15. WISCONSIN-MICHIGAN POWER CO.
POINT BEACH 1 (PWR) 08/22/69 POL
16. NORTHEAST NUCLEAR ENERGY CO.
MILLSTONE 1 (BWR) 12/26/74 FTL
17. COMMONWEALTH EDISON CO.
DRESDEN 3 (BWR) 09/19/69 POL*
18. COMMONWEALTH EDISON CO.
QUAD-CITIES 1 (BWR) 12/22/69 POL*
19. CONSUMERS POWER CO.
PALISADES (PWR) 09/23/70 FTL
20. COMMONWEALTH EDISON CO.
QUAD-CITIES 2 (BWR) 01/19/71 POL*
21. VIRGINIA ELECTRIC & POWER CO.
SURRY 1 (PWR) 10/05/70 FTL
22. FLORIDA POWER & LIGHT CO.
TURKEY POINT 3 (PWR) 10/26/70 POL*
23. BOSTON EDISON CO.
PILGRIM 1 (BWR) 03/02/71 FTL
24. VERMONT YANKEE NUCLEAR POWER CORP.
VERMONT YANKEE (BWR) 12/14/72 FTL
25. VIRGINIA ELECTRIC & POWER CO.
SURRY 2 (PWR) 12/14/72 FTL
26. DUKE POWER CO.
OCONEE 1 (PWR) 05/25/72 FTL

27. WISCONSIN-MICHIGAN ELECTRIC CO.
POINT BEACH 2 (PWR) 03/08/73 FTL
28. FLORIDA POWER & LIGHT CO.
TURKEY POINT 4 (PWR) 04/10/73 FTL
29. MAINE YANKEE ATOMIC POWER CO.
MAINE YANKEE (PWR) 06/29/73 FTL
30. TENNESSEE VALLEY AUTHORITY
BROWNS FERRY 1 (BWR) 12/20/73 FTL
31. OMAHA PUBLIC POWER DISTRICT
FT. CALHOUN 1 (PWR) 08/09/73 FTL
32. CONSOLIDATED EDISON CO.
INDIAN POINT 2 (PWR) 09/28/73 FTL
33. DUKE POWER CO.
OCONEE 2 (PWR) 10/06/73 FTL
34. COMMONWEALTH EDISON CO.
ZION 1 (PWR) 10/19/73 FTL
35. PHILADELPHIA ELECTRIC CO.
PEACH BOTTOM 2 (BWR) 10/25/73 FTL
36. COMMONWEALTH EDISON CO.
ZION 2 (PWR) 11/14/73 FTL
37. NORTHERN STATES POWER CO.
PRAIRIE ISLAND 1 (PWR) 04/05/74 FTL
38. PUBLIC SERVICE CO. OF COLORADO
FT ST VRAIN (HTGR) 12/21/73 FTL
39. WISCONSIN PUBLIC SERVICE CORP.
KEWAUNEE (PWR) 12/21/73 FTL
40. NEBRASKA PUBLIC POWER DISTRICT
COOPER STATION (BWR) 01/18/74 FTL
41. IOWA ELECTRIC LIGHT & POWER CO.
ARNOLD (BWR) 02/22/74 FTL
42. METROPOLITAN EDISON CO.
THREE MILE ISLAND 1 (PWR) 04/19/74 FTL
43. ARKANSAS POWER & LIGHT CO.
ARKANSAS 1 (PWR) 05/21/74 FTL
44. TENNESSEE VALLEY AUTHORITY
BROWNS FERRY 2 (BWR) 06/28/74 FTL
45. PHILADELPHIA ELECTRIC CO.
PEACH BOTTOM 3 (BWR) 07/02/74 FTL
46. DUKE POWER CO.
OCONEE 3 (PWR) 07/19/74 FTL
47. BALTIMORE GAS & ELECTRIC CO.
CALVERT CLIFFS 1 (PWR) 07/31/74 FTL
48. GEORGIA POWER CO.
HATCH 1 (BWR) 08/06/74 FTL
49. SACRAMENTO MUNICIPAL UTIL. DIST.
RANCHO SECO (PWR) 08/16/74 FTL
50. POWER AUTH. OF THE STATE OF NY
FITZPATRICK (BWR) 10/17/74 FTL
51. INDIANA & MICHIGAN ELECTRIC CO.
COOK 1 (PWR) 10/25/74 FTL

1-2

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LICENSED TO OPERATE

A. LICENSED TO OPERATE

	DATE OF ISSUANCE OF FULL POWER LICENSE
52. NORTHERN STATES POWER CO. PRAIRIE ISLAND 2 (PWR)	10/29/74 FTL
53. CAROLINA POWER & LIGHT CO. BRUNSWICK 2 (BWR)	12/27/74 FTL
54. NORTHEAST NUCLEAR ENERGY CO. MILLSTONE 2 (PWR)	08/01/75 FTL
55. PORTLAND GENERAL ELECTRIC CO. TROJAM (PWR)	11/21/75 FTL
56. POWER AUTH. OF THE STATE OF NY INDIAN POINT 3 (PWR)	04/05/76 FTL
57. DUQUESNE LIGHT CO. BEAVER VALLEY 1 (PWR)	01/30/76 FTL
58. FLORIDA POWER & LIGHT CO. ST. LUCIE 1 (PWR)	03/01/76 FTL
59. TENNESSEE VALLEY AUTHORITY BROWNS FERRY 3 (BWR)	07/02/76 FTL
60. BALTIMORE GAS & ELECTRIC CO. CALVERT CLIFFS 2 (PWR)	11/30/76 FTL
61. PUBLIC SERVICE ELECTRIC & GAS CO. SALEM 1 (PWR)	12/01/76 FTL
62. CAROLINA POWER & LIGHT CO. BRUNSWICK 1 (BWR)	11/12/76 FTL
63. FLORIDA POWER CORP. CRYSTAL RIVER 3 (PWR)	01/31/77 FTL
64. TOLEDO EDISON CO. DAVIS-BESSE 1 (PWR)	04-22-77 FTL
65. ALABAMA POWER CO. FARLEY 1 (PWR)	06/25/77 FTL
66. VIRGINIA ELECTRIC & POWER CO. NORTH ANNA 1 (PWR)	11/26/77 FTL
67. INDIANA MICHIGAN ELECTRIC CO. COOK 2 (PWR)	12/23/77 FTL
68. METROPOLITAN EDISON CO. THREE MILE ISLAND 2 (PWR)	02/08/78 FTL
69. GEORGIA POWER CO. HATCH 2 (BWR)	06/13/78 FTL
70. ARKANSAS POWER & LIGHT CO. ARKANSAS 2 (PWR)	09/01/78 FTL

*HAVE APPLIED FOR A FULL-TIME LICENSE

POL - PROVISIONAL OPERATING LICENSE
FTL - FULL-TERM LICENSE

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 1 & 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 B. EFONTE 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.)

(37 UNITS)

1125 013

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. DUQUESNE 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. MILLSTONE 3 (PWR)	08/09/74
9. PUBLIC SERVICE ELEC. & GAS CO. HOPE CREEK 1 & 2 (BWR)	11/01/74
10. DUKE POWER CO.* CATAWBA 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)	03/25/77
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. ROCHESTER GAS & ELECTRIC CORP. STERLING 1 (PWR)	09/01/77
22. DUKE POWER CO. CHEROKEE 1 - 3 (PWR)	12/30/77
23. TENNESSEE VALLEY AUTHORITY PHIPPS BEND 1 & 2 (BWR)	01/16/78
24. CAROLINA POWER & LIGHT CO. HARRIS 1 - 4 (PWR)	01/27/78
25. PUBLIC SERVICE OF INDIANA* MARBLE HILL 1 & 2 (PWR)	04/04/78
26. WASHINGTON PUBLIC POWER SUPPLY SYS. WPPSS 3 & 5 (PWR)	04/11/78
27. TENNESSEE VALLEY AUTHORITY YELLOW CREEK 1 & 2 (PWR)	11/29/78
28. LONG ISLAND LIGHTING CO. JAMESPORT 1 & 2 (PWR)	01/04/79
NA WASHINGTON PUBLIC POWER SUPPLY SYS. WPSS 4 (PWR)	02/21/78

(54 UNITS)

* OL APPLICATION TENDERED

NA - PART OF APPLICATION FOR UNIT 1

UNDER CONSTRUCTION PERMIT REVIEW

D. UNDER CONSTRUCTION PERMIT REVIEW

	DOCKET DATE OF APPLICATION
1. DETROIT EDISON CO. 1/ GREENWOOD 2 & 3 (PWR)	09/17/73(SAFETY) 09/07/73(ENV)
2. HOUSTON LIGHTING & POWER CO. ALLENS CREEK 1 (BWR)	12/07/73(SAF & ENV)
3. BOSTON EDISON CO. PILGRIM 2 (PWR)	12/21/73(SAF & ENV)
4. DUKE POWER CO. PERKINS 1-3 (PWR)	05/24/74(SAFETY) 07/08/74(ENV)
5. NORTHEAST NUCLEAR ENERGY CO. MONTAGUE 1 & 2 (BWR)1/	07/12/74(SAF & ENV)
6. PORTLAND GENERAL ELECTRIC CO. PEBBLE SPRINGS 1 & 2 (PWR)	08/06/74(ENV) 10/18/74(SAFETY)
7. TOLEDO EDISON CO.** DAVIS BESSE 2 & 3 (PWR)	08/09/74(ENV) 08/16/74(SAFETY)
8. WISCONSIN ELECTRIC POWER CO.2/ HAVEN 1 (PWR)	08/09/74(SAFETY) 09/06/74(ENV)
9. PUGET SOUND POWER & LIGHT CO. SKAGIT 1 & 2 (BWR)	09/30/74(ENV) 01/15/74(SAFETY)
10. PROJECT MANAGEMENT CORP.1/ CLINCH RIVER (LMFBR)	04/11/75(ENV) 06/13/75(SAFETY)
11. PUBLIC SERVICE CO. OF OKLAHOMA BLACK FOX 1 & 2 (BWR)**	12/23/75(SAF & ENV)
12. NEW ENGLAND POWER NEW ENGLAND 1 & 2 (PWR)	09/09/76(SAF & ENV)
13. OHIO EDISON CO. ERIE 1 & 2 (PWR)	03/01/77(SAFETY) 05/02/77(ENV)
14. NEW YORK ELECTRIC & GAS CO. NEW HAVEN 1 & 2 (PWR)	12/28/78(SAFETY) 01/24/79(ENV)

(25 UNITS)

20 UNITS UNDER ACTIVE REVIEW

5 UNITS POSTPONED INDEFINITELY OR DEFERRED

**LWA ISSUED.

1/POSTPONED INDEFINITELY OR DEFERRED.

2/AMENDMENT TO CHANGE SITE.

ORDERED

E. OTHERS ORDERED OR ANNOUNCED

ORDERED

1. PACIFIC GAS & ELECTRIC CO.
STANISLAUS 1 & 2 (BWR)
2. COMMONWEALTH EDISON CO.
CARROLL 1 & 2 (PWR)

(4 UNITS)

PUBLICLY ANNOUNCED

E. OTHERS ORDERED OR ANNOUNCED (CONTINUED)

ANNOUNCED

1. AMERICAN ELECTRIC POWER CO.
CENTRAL VIRGINIA 1 & 2 (N-88)

(2 UNITS)

SPECIAL PROJECTS

F. SPECIAL PROJECTS-PENDING*

DATE OF
APPLICATION

PRELIMINARY DESIGN APPROVALS COMPLETED

	DATE OF APPLICATION	APPLICANT	PDA NO.	DOCKET DATE	DATE ISSUED
1. CESSAR SYSTEM 80	10/27/78 (TENDERED)	1. GENERAL ELECTRIC CO.	PDA- 1	07/30/73	12/22/75
2. FLOATING NUCLEAR PLANTS 1-8	07/05/73(DOCKETED)	GESSAR-238 NI			
3. GAS TURBINE HTGR	07/31/75(DOCKETED)	2. COMBUSTION ENG., INC.	PDA- 2	12/19/73	12/31/75
4. GASSAR	02/05/75(DOCKETED)	CESSAR			
5. GIBBSAR/RESAR-414	10/15/76(DOCKETED 05/10/77)	3. WESTINGHOUSE ELEC CORP.	PDA- 3	03/11/74	12/31/75
6. GAISSAR	02/24/78	RESAR-41			
7. FT. CALHOUN (LESR)	01/26/76	4. STONE AND WEBSTER	PDA- 4	06/28/74	05/05/76
8. S8G	05/31/77(DOCKETED 06/08/77)	SWESSAR/RESAR			
9. SWESSAR/BSAR-205	12/22/75(DOCKETED)	5. BRAUN SAR	PDA- 5	12/21/74	05/07/76
10. WOOD SITE STUDY	08/21/75	6. STONE & WEBSTER	PDA- 6	10/21/74	08/18/76
11. BOPSSAR/BSAR-205	10/31/77(DOCKETED)	SWESSAR/CESSAR			
12. BLUE HILLS (SITE STUDY)	10/31/77	7. WESTINGHOUSE ELEC CORP.	PDA- 7	07/31/75	12/30/76
13. ESSAR/CESSAR	11/23/77(DOCKETED 02/02/78)	RESAR-3S			
14. ESSAR/RESAR-414	11/23/77(DOCKETED 03/13/78)	8. STONE AND WEBSTER	PDA- 8	10/03/75	03/31/77
15. ESSAR/BSAR-205	11/23/77(DOCKETED 05/19/78)	SWESSAR/RESAR 3S			
16. NORTH COAST (ESR)	09/00/74	9. GENERAL ELECTRIC CO.	PDA- 9	02/14/75	03/31/77
17. CARROLL COUNTY (ESR)	12/00/78	GESSAR-251			
18. FULTON (LESR)	01/00/79	10. GENERAL ELECTRIC CO.	PDA-10	09/24/75	03/10/77
19. DOUGLAS POINT (LESR)	08/00/73	GESSAR-238 NSSS			
20. GESSAR-238 NSSS EXTENSION	03/21/78	11. FLUOR P'JER	PDA-11	01/27/76	08/17/77
21. GESSAR-251 EXTENSION	03/21/78	BOPSSAR/RESAR-41			
22. SWESSAR/CESSAR EXTENSION	03/21/78	12. BABCOCK & WILCOX	PDA-12	03/01/76	05/31/78
23. SWESSAR/RESAR-3S EXTENSION	03/21/78	BSAR-205			
24. BOPSSAR/RESAR-41 EXTENSION	03/21/78	13. WESTINGHOUSE ELEC CORP.	PDA-13	12/30/76	11/04/78
25. BSAR-205 EXTENSION	03/21/78	RESAR 414			

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

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. CARROLL (ILLINOIS)	COMMONWEALTH EDISON CO.	2			2
16. CATAWBA (S. C.)	DUKE POWER CO.	2		2	
17. CENTRAL VIRGINIA (VIRGINIA)	AMERICAN ELECTRIC CO.	2			2
18. CHEROKEE (S. C.)	DUKE POWER CO.	3		3	
19. CLINCH RIVER (TENN)	TENNESSEE VALLEY AUTHORITY	1			1*
20. CLINTON (ILLINOIS)	ILLINOIS POWER CO.	2		2	
21. COMANCHE PEAK (TEXAS)	TEXAS UTILITIES GENERATING CO.	2		2	
22. CONN YANKEE (CONN)	CONN YANKEE ATOMIC POWER CO.	1	1		
23. COOK (MICH)	INDIANA & MICHIGAN ELECTRIC CO.	2	2		
24. COOPER (NEB)	NEBRASKA PUBLIC POWER DISTRICT	1	1		
25. CRYSTAL RIVER 3 (FLA)	FLORIDA POWER CORP.	1	1		
26. DAVIS BESSE (OHIO)	TOLEDO EDISON CO.	3	1	2	
27. DIABLO CANYON (CALIF)	PACIFIC GAS & ELECTRIC CO.	2		2	
28. DRESDEN (ILLINOIS)	COMMONWEALTH EDISON CO.	3	3		
29. ERIE (OHIO)	OHIO EDISON COMPANY	2			2*
30. FARLEY (ALA)	ALABAMA POWER CO.	2	1	1	
31. FERMI (MICH)	DETROIT EDISON CO.	1		1	
32. FITZPATRICK (N Y)	POWER AUTH OF THE STATE OF N. Y.	1	1		
33. FORKED RIVER (N J)	JERSEY CENTRAL POWER & LIGHT CO.	1		1	
34. FORT CALHOUN (NEB)	OMAHA PUBLIC POWER DISTRICT	1	1		
35. FORT ST. VRAIN (COLO)	PUBLIC SERVICE CO OF COLO.	1	1		
36. GINNA (N. Y.)	ROCHESTER GAS & ELECTRIC CO.	1	1		
37. GRAND GULF (MISS)	MISSISSIPPI POWER & LIGHT CO.	2		2	
38. GREENWOOD (MICH)	DETROIT EDISON CO.	2			2**
39. HARRIS (N. C.)	C. ROLINA POWER & LIGHT CO.	4		4	
40. HARTSVILLE (TENN)	TENNESSEE VALLEY AUTHORITY	4		4	
41. HATCH (GEORGIA)	GEORGIA POWER CO.	2	2		
42. HAVEN (WISC)	WISCONSIN ELECTRIC POWER	1			1*
43. HOPE CREEK (N. J.)	PUBLIC SERVICE ELECTRIC & GAS CO.	2		2	
44. HUMBOLDT BAY (CALIF)	PACIFIC GAS & ELECTRIC CO.	1	1		
45. INDIAN POINT (N Y)	CONSOLIDATED EDISON CO.	3	3		
46. JAMESPORT (N.Y.)	LONG ISLAND LIGHTING CO.	2		2	
47. KEWAUNEE (WISC)	WISCONSIN PUBLIC SERVICE CORP.	1	1		
48. LACROSSE (WISC)	DAIRYLAND POWER COOPERATIVE	1	1		
49. LASALLE (ILLINOIS)	COMMONWEALTH EDISON CO.	2		2	
50. LIMERICK (PENN)	PHILADELPHIA ELECTRIC CO.	2		2	
51. MAINE YANKEE (MAINE)	MAINE YANKEE ATOMIC POWER CO.	1	1		
52. MARBLE HILL (INDIANA)	PUBLIC SERVICE COMPANY OF INDIANA	2		2	

1125 017

INDEX TO REACTOR SITES

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

* CP APPLICATIONS UNDER REVIEW
 ** CP REVIEW SUSPENDED

1-8

1125 018

INDEX TO REACTOR SITES

SUMMARY

192 REACTOR UNITS TO BE LOCATED ON 104 SITES:

1 UNIT SITES	-	33
2 UNIT SITES	-	57
3 UNIT SITES	-	11
4 UNIT SITES	-	3
		<u>104</u>

LICENSED TO OPERATE:

	SITES*	UNITS
1 UNIT SITES	- 21	21
2 UNIT SITES	- 19	32
3 UNIT SITES	- 7	16
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	- 6	14
4 UNIT SITES	- 3	11
		<u>95</u>

PLANNED:

	SITES*	UNITS
1 UNIT SITES	- 3	3
2 UNIT SITES	- 11	21
3 UNIT SITES	- 1	3
4 UNIT SITES	- 0	0
		<u>27</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. AMERICAN ELECTRIC COMPANY	CENTRAL VIRGINIA			1150		
4. AMERICAN ELECTRIC COMPANY	CENTRAL VIRGINIA			1150		
5. ARIZONA PUBLIC SERVICE	PALO VERDE 1	05000528	PWR	1238	SEWAGE TREATMENT	COOLING TOWERS
6. ARIZONA PUBLIC SERVICE	PALO VERDE 2	05000529	PWR	1238	SEWAGE TREATMENT	COOLING TOWERS
7. ARIZONA PUBLIC SERVICE	PALO VERDE 3	05000530	PWR	1238	SEWAGE TREATMENT	COOLING TOWERS
8. ARKANSAS POWER & LIGHT	ARKANSAS 1	05000313	PWR	0850	LAKE DARDANELLE	ONCE THRU
9. ARKANSAS POWER & LIGHT	ARKANSAS 2	05000368	PWR	0912	ARKANSAS RIVER	CC HNDCT
10. BALTIMORE GAS & ELECTRIC	CALVERT CLIFFS 1	05000317	PWR	0845	CHESAPEAKE BAY	ONCE THRU
11. BALTIMORE GAS & ELECTRIC	CALVERT CLIFFS 2	05000318	PWR	0845	CHESAPEAKE BAY	ONCE THRU
12. BOSTON EDISON	PILGRIM 1	05000293	BWR	0670	CAPE COD BAY	ONCE THRU
13. BOSTON EDISON	PILGRIM 2	05000471	PWR	1180	CAPE COD BAY	ONCE THRU
14. CAROLINA POWER & LIGHT	BRUNSWICK 1	05000325	BWR	0821	CAPE FEAR ESTUARY	ONCE THRU
15. CAROLINA POWER & LIGHT	BRUNSWICK 2	05000324	BWR	0821	CAPE FEAR ESTUARY	ONCE THRU
16. CAROLINA POWER & LIGHT	HARRIS 1	05000400	PWR	0900	MAKEUP RESERVOIR	NDCT
17. CAROLINA POWER & LIGHT	HARRIS 2	05000401	PWR	0900	MAKEUP RESERVOIR	NDCT
18. CAROLINA POWER & LIGHT	HARRIS 3	05000402	PWR	0900	MAKEUP RESERVOIR	NDCT
19. CAROLINA POWER & LIGHT	HARRIS 4	05000403	PWR	0900	MAKEUP RESERVOIR	NDCT
20. CAROLINA POWER & LIGHT	ROBINSON 2	05000261	PWR	0700	ROBINSON IMPOUNDMENT	CC ART
21. CINCINNATI GAS & ELECTRIC	ZIMMER 1	05000358	PL	0810	OHIO RIVER	COOLING TOWER
22. CLEVELAND ELECTRIC ILLUMINATING	PERRY 1	05000440	BWR	1205	LAKE ERIE	CC HNDCT
23. CLEVELAND ELECTRIC ILLUMINATING	PERRY 2	05000441	BWR	1205	LAKE ERIE	CC HNDCT
24. COMMONWEALTH EDISON	BRAIDWOOD 1	05000456	PWR	1120	KANKAKEE RIVER	CC ART
25. COMMONWEALTH EDISON	BRAIDWOOD 2	05000457	PWR	1120	KANKAKEE RIVER	CCART
26. COMMONWEALTH EDISON	BYRON 1	05000454	PWR	1120	ROCK RIVER	CC HNDCT
27. COMMONWEALTH EDISON	BYRON 2	05000455	PWR	1120	ROCK RIVER	CCHNDCT
28. COMMONWEALTH EDISON CO.	CARROLL 1	00001559	PWR	1150	UNKNOWN	
29. COMMONWEALTH EDISON CO.	CARROLL 2	00002559	PWR	1150	UNKNOWN	
30. COMMONWEALTH EDISON	DRESDEN 1	05000010	BWR	0200	KANKAKEE RIVER	ONCE THRU
31. COMMONWEALTH EDISON	DRESDEN 2	05000237	BWR	0809	KANKAKEE RIVER	COOLING LAKE
32. COMMONWEALTH EDISON	DRESDEN 3	05000249	BWR	0809	KANKAKEE RIVER	COOLING LAKE
33. COMMONWEALTH EDISON	LASALLE 1	05000373	BWR	1078	RESERVOIR	POND
34. COMMONWEALTH EDISON	LASALLE 2	05000374	BWR	1078	RESERVOIR	POND
35. COMMONWEALTH EDISON	QUAD CITIES 1	05000254	BWR	0800	MISSISSIPPI RIVER	ONCE THRU
36. COMMONWEALTH EDISON	QUAD CITIES 2	05000265	BWR	0800	MISSISSIPPI RIVER	ONCE THRU
37. COMMONWEALTH EDISON	ZION 1	05000295	PWR	1050	LAKE MICHIGAN	ONCE THRU
38. COMMONWEALTH EDISON	ZION 2	05000304	PWR	1050	LAKE MICHIGAN	ONCE THRU
39. CONNECTICUT YANKEE ATOMIC POWER	HADDAM NECK	05000213	PWR	0575	CONNECTICUT RIVER	ONCE THRU
40. CONSOLIDATED EDISON	INDIAN POINT 1	05000003	PWR	0265	HUDSON RIVER	ONCE THRU
41. CONSOLIDATED EDISON	INDIAN POINT 2	05000247	PWR	0873	HUDSON RIVER	ONCF THRU
42. CONSOLIDATED EDISON	INDIAN POINT 3	05000286	PWR	0965	HUDSON RIVER	ONCE THRU
43. CONSUMERS POWER	BIG ROCK POINT 1	05000155	BWR	0075	LAKE MICHIGAN	ONCE THRU
44. CONSUMERS POWER	MIDLAND 1	05000329	PWR	0458	TITTABAWASSEE RIVER	CLOSED CYCLE
45. CONSUMERS POWER	MIDLAND 2	05000330	PWR	0805	TITTABAWASSEE RIVER	CLOSED CYCLE
46. CONSUMERS POWER	PALISADES	05000255	PWR	070	LAKE MICHIGAN	COOLING TOWERS
47. DAIRYLAND POWER	LA CROSSE	05000409	BWR	005	MISSISSIPPI RIVER	ONCE THRU
48. DETROIT EDISON	ENRICO FERMI 2	05000341	BWR	109.	LAKE ERIE	ONCE THRU
49. DETROIT EDISON	GREENWOOD 2	05000452	PWR	1200	LAKE HURON	CLOSED CYCLE
50. DETROIT EDISON	GREENWOOD 3	05000453	PWR	1200	LAKE HURON	CLOSED CYCLE
51. DUKE POWER	CATAWBA 1	05000413	PWR	1153	LAKE WYLIE	HNDCT
52. DUKE POWER	CATAWBA 2	05000414	PWR	1153	LAKE WYLIE	HNDCT
53. DUKE POWER	CHEROKEE 1	05000491	PWR	1280	BROAD RIVER	CLOSED CYCLE
54. DUKE POWER	CHEROKEE 2	05000492	PWR	1280	BROAD RIVER	CLOSED CYCLE

INDEX TO REACTORS BY UTILITY OWNER

UTILITY	REACTOR	DOCKET	TYPE	MWe	COOLING SOURCE	COOLING METHOD
55.	DUKE POWER	CHEROKEE 3	05000493	PWR	1280 BROAD RIVER	CLOSED CYCLE
56.	DUKE POWER	MCGUIRE 1	05000369	PWR	1180 LAKE NORMAN	ONCE THRU
57.	DUKE POWER	MCGUIRE 2	05000370	PWR	1180 LAKE NORMAN	ONCE THRU
58.	DUKE POWER	OCONEE 1	05000269	PWR	0871 LAKE KEOWEE	ONCE THRU
59.	DUKE POWER	OCONEE 2	05000270	PWR	0871 LAKE KEOWEE	ONCE THRU
60.	DUKE POWER	OCONEE 3	05000287	PWR	0871 LAKE KEOWEE	ONCE THRU
61.	DUKE POWER	PERKINS 1	05000488	PWR	1280 YADKIN RIVER	CLOSED CYCLE
62.	DUKE POWER	PERKINS 2	05000489	PWR	1280 YADKIN RIVER	CLOSED CYCLE
63.	DUKE POWER	PERKINS 3	05000490	PWR	1280 YADKIN RIVER	CLOSED CYCLE
64.	DUQUESNE LIGHT	BEAVER VALLEY 1	05000334	PWR	0852 OHIO RIVER	CC, HNDCT
65.	DUQUESNE LIGHT	BEAVER VALLEY 2	05000412	PWR	0852 OHIO RIVER	HNDCT
66.	FLORIDA POWER & LIGHT	ST LUCIE 1	05000335	PWR	0907 ATLANTIC OCEAN	ONCE THRU
67.	FLORIDA POWER & LIGHT	ST LUCIE 2	05000389	PWR	081J ATLANTIC OCEAN	ONCE THRU
68.	FLORIDA POWER & LIGHT	TURKEY POINT 3	05000250	PWR	0666 BISCAYNE BAY	CLOSED CANEL
69.	FLORIDA POWER & LIGHT	TURKEY POINT 4	05000251	PWR	0666 BISCAYNE BAY	CLOSED CANEL
70.	FLORIDA POWER CORPORATION	CRYSTAL RIVER 3	05000302	PWR	0825 GULF OF MEXICO	ONCE THRU
71.	GEORGIA POWER	HATCH 1	05000321	BWR	0786 ALTAMAHA RIVER	COOLING TOWER
72.	GEORGIA POWER	HATCH 2	050003	BWR	0795 ALTAMAHA RIVER	COOLING TOWER
73.	GEORGIA POWER	VOGTLE 1	05000424	PWR	1113 SAVANNAH RIVER	CCCT
74.	GEORGIA RIVER	VOGTLE 2	05000425	PWR	1113 SAVANNAH RIVER	CCCT
75.	GULF STATES UTILITIES	RIVER BEND 1	05000458	BWR	0934 MISSISSIPPI RIVER	MDCT
76.	GULF STATES UTILITIES	RIVER BEND 2	05000459	BWR	0934 MISSISSIPPI RIVER	MDCT
77.	HOUSTON LIGHTING & POWER	ALLENS CREEK 1	05000466	BWR	1150 BRAZOS RIVER	LAKE POND
78.	HOUSTON LIGHTING & POWER	SOUTH TEXAS 1	05000498	PWR	1250 COLORADO RIVER	CC
79.	HOUSTON LIGHTING & POWER	SOUTH TEXAS 2	05000499	PWR	1250 COLORADO RIVER	CC
80.	ILLINOIS POWER	CLINTON	05000461	BWR	0933 SALT CREEK	ONCE THRU
81.	ILLINOIS POWER	CLINTON 2	05000462	BWR	0933 SALT CREEK	ONCE THRU
82.	INDIANA & MICHIGAN ELECTRIC	COOK 1	05000315	PWR	1060 LAKE MICHIGAN	ONCE THRU
83.	INDIANA & MICHIGAN ELECTRIC	COOK 2	05000316	PWR	1060 LAKE MICHIGAN	ONCE THRU
84.	IOWA ELECTRIC POWER & LIGHT	DUANE ARNOLD	05000331	BWR	0535 CEDAR RAPIDS RIVER	CC, FDCT
85.	JERSEY CENTRAL POWER & LIGHT	FORKED RIVER	05000363	PWR	1070	ONCE THRU
86.	JERSEY CENTRAL POWER & LIGHT	OYSTER CREEK 1	05000219	BWR	0640 BARNEGAT BAY	ONCE THRU
87.	KANSAS GAS & ELECTRIC	WOLF CREEK 1	05000482	PWR	1150	COOLING LAKE
88.	LONG ISLAND LIGHTING	JAMESPORT 1	05000516	PWR	1150 LONG ISLAND SOUND	ONCE THRU
89.	LONG ISLAND LIGHTING	JAMESPORT 2	05000517	PWR	1150 LONG ISLAND SOUND	ONCE THRU
90.	LONG ISLAND LIGHTING	SHOREHAM	05000322	BWR	0819 LONG ISLAND SOUND	ONCE THRU
91.	LOUISIANA POWER & LIGHT	WATERFORD 3	05000382	PWR	1113 MISSISSIPPI RIVER	ONCE THRU
92.	MAINE YANKEE ATOMIC POWER	MAINE YANKEE	05000309	PWR	0790 BACK RIVER	ONCE THRU
93.	METROPOLITAN EDISON	THREE MILE ISLAND 1	05000289	PWR	0819 SUSQUEHANNA RIVER	CC, HNDCT
94.	METROPOLITAN EDISON	THREE MILE ISLAND 2	05000320	PWR	0906 SUSQUEHANNA RIVER	CC, HNDCT
95.	MISSISSIPPI POWER & LIGHT	GRAND GULF 1	05000416	BWR	1250 MISSISSIPPI RIVER	CCHNDCT
96.	MISSISSIPPI POWER & LIGHT	GRAND GULF 2	05000417	BWR	1250 MISSISSIPPI RIVER	CCHNDCT
97.	NEBRASKA PUBLIC POWER DISTRICT	COOPER STATION	05000298	BWR	0778 MISSOURI RIVER	ONCE THRU
98.	NEW ENGLAND POWER & LIGHT	NEW ENGLAND 1	05000568	PWR	1194 ATLANTIC OCEAN	ONCE THROUGH
99.	NEW ENGLAND POWER & LIGHT	NEW ENGLAND 2	05000569	PWR	1194 ATLANTIC OCEAN	ONCE THROUGH
100.	NIAGARA MOHAWK POWER	NINE MILE POINT 1	05000220	BWR	0610 LAKE ONT.	ONCE THRU
101.	NIAGARA MOHAWK POWER	NINE MILE POINT 2	05000410	BWR	1080 LAKE ONT.	ONCE THRU
102.	NORTHEAST NUCLEAR ENERGY	MILLSTONE 1	05000245	BWR	0652 LONG ISLAND SOUND	ONCE THRU
103.	NORTHEAST NUCLEAR ENERGY	MILLSTONE 2	05000336	PWR	0828 LONG ISLAND SOUND	ONCE THRU
104.	NORTHEAST NUCLEAR ENERGY	MILLSTONE 3	05000423	PWR	1156 NIANTIC BAY	ONCE THRU
105.	NORTHEAST NUCLEAR ENERGY	MONTAGUE 1	05000496	BWR	1150 CONNECTICUT RIVER	CLSD LP CL TWR
106.	NORTHEAST NUCLEAR ENERGY	MONTAGUE 2	05000497	BWR	1150 CONNECTICUT RIVER	CLSD LP CL TWR
107.	NORTHERN INDIANA PUBLIC SERVICE	BAILLY 1	05000367	BWR	0645 LAKE MICHIGAN	CC, HNDCT
108.	NORTHERN STATES POWER	MONTICELLO	05000263	BWR	0545 MISSISSIPPI RIVER	VC, MDCT

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INDEX TO REACTORS BY UTILITY OWNER

	UTILITY	REACTOR	DOCKET TYPE	MWe	COOLING SOURCE	COOLING METHOD
109.	NORTHERN STATES POWER	PRAIRIE ISLAND 1	05000282	PWR	0530 MISSISSIPPI RIVER	COOLING TOWERS
110.	NORTHERN STATES POWER	PRAIRIE ISLAND 2	05000306	PWR	0530 MISSISSIPPI RIVER	COOLING TOWERS
111.	NY STATE ELECTRIC & GAS CO.	NEW HAVEN 1	05000596	PWR	1250 UNKNOWN	
112.	NY STATE ELECTRIC & GAS CO.	NEW HAVEN 2	05000597	PWR	1250 UNKNOWN	
113.	OHIO EDISON CO	ERIE 1	05000580	PWR	1200 LAKE ERIE	
114.	OHIO EDISON CO	ERIE 2	05000581	PWR	1200 LAKE ERIE	
115.	OMAHA PUBLIC POWER DISTRICT	FORT CALHOUN 1	05000285	PWR	0457 MISSOURI RIVER	ONCE THRU
116.	PACIFIC GAS & ELECTRIC	DIABLO CANYON 1	05000275	PWR	1084 PACIFIC OCEAN	ONCE THRU
117.	PACIFIC GAS & ELECTRIC	DIABLO CANYON 2	05000323	PWR	1106 PACIFIC OCEAN	ONCE THRU
118.	PACIFIC GAS & ELECTRIC	HUMBOLDT BAY	05000133	BWR	0065 PACIFIC OCEAN	ONCE THRU
119.	PACIFIC GAS & ELECTRIC CO.	STANISLAUS 1	00001564	BWR	1200 UNKNOWN	
120.	PACIFIC GAS & ELECTRIC CO.	STANISLAUS 2	00002564	BWR	1200 UNKNOWN	
121.	PENNSYLVANIA POWER & LIGHT	SUSQUEHANNA 1	05000387	BWR	1050 SUSQUEHANNA RIVER	CC,HNDCT
122.	PENNSYLVANIA POWER & LIGHT	SUSQUEHANNA 2	05000388	BWR	1050 SUSQUEHANNA RIVER	CC,HNDCT
123.	PHILADELPHIA ELECTRIC	LIMERICK 1	05000352	BWR	1065 SCHUYLKILL RIVER	CC HNDCT
124.	PHILADELPHIA ELECTRIC	LIMERICK 2	05000353	BWR	1065 SCHUYLKILL RIVER	CC HNDCT
125.	PHILADELPHIA ELECTRIC	PEACH BOTTOM 2	05000277	BWR	1065 CONOWINGO POND	VC,MDCT
126.	PHILADELPHIA ELECTRIC	PEACH BOTTOM 3	05000278	BWR	1065 CONOWINGO POND	VC,MDCT
127.	PORTLAND GENERAL ELECTRIC	PEBBLE SPRINGS 1	05000514	PWR	1260 COLUMBIA RIVER	CLOSED POND
128.	PORTLAND GENERAL ELECTRIC	PEBBLE SPRINGS 2	05000515	PWR	1260 COLUMBIA RIVER	CLOSED POND
129.	PORTLAND GENERAL ELECTRIC	TROJAN	05000344	PWR	1130 COLUMBIA RIVER	COOLING TOWERS
130.	POWER AUTHORITY OF STATE OF N.Y.	FITZPATRICK	05000333	BWR	0821 LAKE ONTARIO	ONCE THRU
131.	PROJECT MANAGEMENT CORP./TVA	CLINCH RIVER	05000537	LMFBR	0350 CLINCH RIVER	
132.	PUBLIC SERVICE GAS & ELECTRIC	HOPE CREEK 1	05000354	BWR	1067 DELAWARE RIVER	NDCT
133.	PUBLIC SERVICE GAS & ELECTRIC	HOPE CREEK 2	05000355	BWR	1067 DELAWARE RIVER	NDCT
134.	PUBLIC SERVICE GAS & ELECTRIC	SALEM 1	05000272	PWR	1090 DELAWARE RIVER	ONCE THRU
135.	PUBLIC SERVICE GAS & ELECTRIC	SALEM 2	05000311	PWR	1115 DELAWARE RIVER	ONCE THRU
136.	PUBLIC SERVICE OF COLORADO	FORT ST VRAIN	05000267	HTGR	0330 SO. PLATTE RIVER	CLOSED HELIUM
137.	PUBLIC SERVICE OF INDIANA	MARBLE HILL 1	05000546	PWR	1130 OHIO RIVER	CMDCT
138.	PUBLIC SERVICE OF INDIANA	MARBLE HILL 2	05000547	PWR	1130 OHIO RIVER	CMDCT
139.	PUBLIC SERVICE OF NEW HAMPSHIRE	SEABROOK 1	05000443	PWR	1200 ATLANTIC OCEAN	ONCE THRU
140.	PUBLIC SERVICE OF NEW HAMPSHIRE	SEABROOK 2	05000444	PWR	1200 ATLANTIC OCEAN	ONCE THRU
141.	PUBLIC SERVICE OF OKLAHOMA	BLACK FOX 1	05000556	BWR	1150 VERIGRIS RIVER	MECH DR CL TWR
142.	PUBLIC SERVICE OF OKLAHOMA	BLACK FOX 2	05000557	BWR	1150 VERIGRIS RIVER	MECH DR CL TWR
143.	PUGET SOUND POWER & LIGHT	SKAGIT 1	05000522	BWR	1277 RANNEY COLLECTOR	COOLING TOWERS
144.	PUGET SOUND POWER & LIGHT	SKAGIT 2	05000523	BWR	1277 RANNEY COLLECTOR	COOLING TOWERS
145.	ROCHESTER GAS & ELECTRIC	GINNA	05000244	PWR	0490 LAKE ONTARIO	ONCE THRU
146.	ROCHESTER GAS & ELECTRIC	STERLING 1	05000485	PWR	1150 COOLING LAKE	
147.	SACRAMENTO MUN. UTIL. DISTRICT	RANCHO SECO 1	05000312	PWR	0913 FOLSON CANAL	COOLING TOWERS
148.	SOUTH CAROLINA ELECTRIC & GAS	SUMMER 1	05000395	PWR	0900 MONTICELLO RESERVOIR	ONCE THRU
149.	SOUTHERN CALIFORNIA EDISON	SAN ONOFRE 1	05000206	PWR	0430 PACIFIC OCEAN	ONCE THRU
150.	SOUTHERN CALIFORNIA EDISON	SAN ONOFRE 2	05000361	PWR	1140 PACIFIC OCEAN	ONCE THRU
151.	SOUTHERN CALIFORNIA EDISON	SAN ONOFRE 3	05000362	PWR	1140 PACIFIC OCEAN	ONCE THRU
152.	TENNESSEE VALLEY AUTHORITY	BELLEFONTE 1	05000438	PWR	1213 GUNTERVILLE RES	CCHNDCT
153.	TENNESSEE VALLEY AUTHORITY	BELLEFONTE 2	05000439	PWR	1213 GUNTERVILLE RES	CCHNDCT
154.	TENNESSEE VALLEY AUTHORITY	BROWNS FERRY 1	05000259	BWR	1067 TENNESSEE RIVER	ONCE THRU
155.	TENNESSEE VALLEY AUTHORITY	BROWNS FERRY 2	05000260	BWR	1067 TENNESSEE RIVER	ONCE THRU
156.	TENNESSEE VALLEY AUTHORITY	BROWNS FERRY 3	05000296	BWR	1067 TENNESSEE RIVER	ONCE THRU
157.	TENNESSEE VALLEY AUTHORITY	HARTSVILLE 1	05000518	BWR	1233 COOLING TOWERS	CCNDCT
158.	TENNESSEE VALLEY AUTHORITY	HARTSVILLE 2	05000519	BWR	1233 COOLING TOWERS	CCNDCT
159.	TENNESSEE VALLEY AUTHORITY	HARTSVILLE 3	05000520	BWR	1233 COOLING TOWERS	CCNDCT
160.	TENNESSEE VALLEY AUTHORITY	HARTSVILLE 4	05000521	BWR	1233 COOLING TOWERS	CCNDCT
161.	TENNESSEE VALLEY AUTHORITY	PHIPPS BEND 1	05000553	BWR	1233 HOLSTON RIVER	
162.	TENNESSEE VALLEY AUTHORITY	PHIPPS BEND 2	05000554	BWR	1233 HOLSTON RIVER	

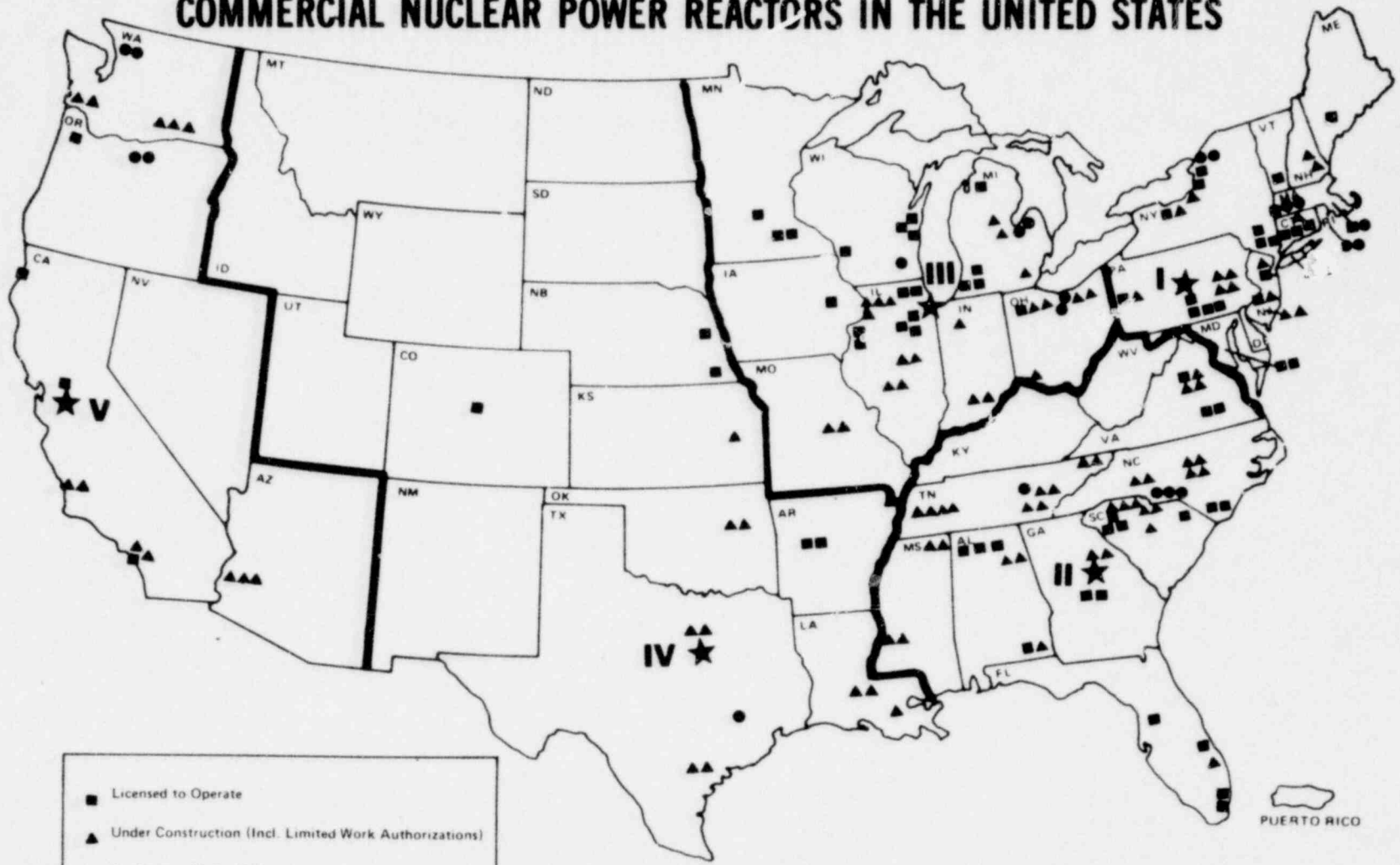
INDEX TO REACTORS BY UTILITY OWNER

UTILITY	REACTOR	DOCKET TYPE	MWe	COOLING SOURCE	COOLING METHOD	
163.	TENNESSEE VALLEY AUTHORITY	SEQUOYAH 1	05000327	PWR	1148 CHICKAMAUGA LAKE	ONCE THRU
164.	TENNESSEE VALLEY AUTHORITY	SEQUOYAH 2	05000328	PWR	1148 CHICKAMAUGA LAKE	ONCE THRU
165.	TENNESSEE VALLEY AUTHORITY	WATTS BAR 1	05000390	PWR	1177 TENNESSEE RIVER	CC,HNDCT
166.	TENNESSEE VALLEY AUTHORITY	WATTS BAR 2	05000391	PWR	1177 TENNESSEE RIVER	CC,HNDCT
167.	TENNESSEE VALLEY AUTHORITY	YELLOW CREEK 1	05000566	PWR	1300 YELLOW CRK EMBAY.	MDCT
168.	TENNESSEE VALLEY AUTHORITY	YELLOW CREEK 2	05000567	PWR	1300 YELLOW CRK EMBAY.	MDCT
169.	TEXAS UTILITIES GENERATING	COMANCHE PEAK 1	05000445	PWR	1150 SQUAW CREEK RES	CC ART
170.	TEXAS UTILITIES GENERATING	COMANCHE PEAK 2	05000446	PWR	1150 SQUAW CREEK RES	CC ART
171.	TOLEDO EDISON	DAVIS-BESSE 1	05000346	PWR	0906 LAKE ERIE	HBDCT
172.	TOLEDO EDISON	DAVIS-BESSE 2	05000500	PWR	0906 LAKE ERIE	NDCT
173.	TOLEDO EDISON	DAVIS-BESSE 3	05000501	PWR	0906 LAKE ERIE	NDCT
174.	UNION ELECTRIC	CALLAWAY 1	05000483	PWR	1120 COOLING POND	
175.	UNION ELECTRIC	CALLAWAY 2	05000486	PWR	1120 COOLING POND	
176.	VERMONT YANKEE NUCLEAR POWER	VERMONT YANKEE 1	05000271	BWR	0514 CONNECTICUT RIVER	CC CT
177.	VIRGINIA ELECTRIC & POWER	NORTH ANNA 1	05000338	PWR	0907 LAKE ANNA	ONCE THRU
178.	VIRGINIA ELECTRIC & POWER	NORTH ANNA 2	05000339	PWR	0907 LAKE ANNA	ONCE THRU
179.	VIRGINIA ELECTRIC & POWER	NORTH ANNA 3	05000404	PWR	0907 LAKE ANNA	ONCE THRU
180.	VIRGINIA ELECTRIC & POWER	NORTH ANNA 4	05000405	PWR	0907 LAKE ANNA	ONCE THRU
181.	VIRGINIA ELECTRIC & POWER	SURRY 1	05000280	PWR	0788 JAMES RIVER	ONCE THRU
182.	VIRGINIA ELECTRIC & POWER CO.	SURRY 2	05000281	PWR	0788 JAMES RIVER	ONCE THRU
183.	WASHINGTON P.P.S.S.	WASHINGTON NUCLEAR 1	05000460	PWR	1218 CO MBIA RIVER	ONCE THRU
184.	WASHINGTON P.P.S.S.	WASHINGTON NUCLEAR 2	05000397	BWR	1103 MECHANICAL TOWERS	COOLING TOWERS
185.	WASHINGTON P.P.S.S.	WASHINGTON NUCLEAR 3	05000508	PWR	1242 CHEHALIS RIVER	NATURAL DRAFT
186.	WASHINGTON P.P.S.S.	WASHINGTON NUCLEAR 4	05000513	PWR	1218 COLUMBIA RIVER	ONCE THRU
187.	WASHINGTON P.P.S.S.	WASHINGTON NUCLEAR 5	05000509	PWR	1242 CHEHALIS RIVER	NATURAL DRAFT
188.	WISCONSIN ELECTRIC POWER	HAVEN 1	05000502	PWR	0900 UNKNOWN	
189.	WISCONSIN PUBLIC SERVICE	KEWAUNEE	05000305	PWR	0541 LAKE MICHIGAN	ONCE THRU
190.	WISCONSIN-MICHIGAN ELECTRIC	POINT BEACH 1	05000266	PWR	0497 LAKE MICHIGAN	ONCE THRU
191.	WISCONSIN-MICHIGAN ELECTRIC	POINT BEACH 2	05000301	PWR	0477 LAKE MICHIGAN	ONCE THRU
192.	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

1125 023

NRC REGIONAL OFFICES AND COMMERCIAL NUCLEAR POWER REACTORS IN THE UNITED STATES



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

PUERTO RICO

U. S. NUCLEAR REGULATORY COMMISSION

NP 19 79

1125 024

REACTORS BY STATE

STATE	MWE	STAGE	STATE	MWE	STAGE	STATE	MWE	STAGE	STATE	MWE	STAGE	
ALABAMA			INDIANA			NEW JERSEY			SOUTH CAROLINA			
BROWNS FERRY 1	(1065)	LIC	BAILLY STATION	(660)	UC	OYSTER CREEK	(650)	LIC	OCONEE 1	(887)	LIC	
BROWNS FERRY 2	(1065)	LIC	MARBLE HILL 1	(1130)	UC	SALEM 1	(1090)	UC/OL	OCONEE 2	(887)	LIC	
BROWNS FERRY 3	(1065)	LIC	MARBLE HILL 2	(1130)	UC	SALEM 2	(1115)	UC/OL	OCONEE 3	(887)	LIC	
FARLEY 1	(829)	LIC	IOWA			POKED RIVER	(1070)	UC	ROBINSON 2	(700)	LIC	
FARLEY 2	(829)	UC/OL	DUANE ARNOLD			HOPE CREEK 1	(1067)	UC	CATAWBA 1	(1145)	UC	
BELLEFRONTE 1	(1235)	UC/OL	(538)			HOPE CREEK 2	(1067)	UC	CATAWBA 2	(1145)	UC	
BELLEFRONTE 2	(1235)	UC/OL	KANSAS			NEW YORK			CHEROKEE 1	(1280)	UC	
ARKANSAS			WOLF CREEK			FITZPATRICK			CHEROKEE 2	(1280)	UC	
ARKANSAS 1	(850)	LIC	(1150)			GINHA			CHEROKEE 3	(1280)	UC	
ARKANSAS 2	(912)	LIC	LOUISIANA			INDIAN POINT 1			SUMMER 1	(900)	UC/OL	
ARIZONA			RIVERBEND 1			INDIAN POINT 2			TENNESSEE			
PALO VERDE 1	(1270)	UC	(934)			INDIAN POINT 3			HARTSVILLE 1	(1205)	UC	
PALO VERDE 2	(1270)	UC	RIVERBEND 2			NINE MILE POINT 1			HARTSVILLE 2	(1205)	UC	
PALO VERDE 3	(1270)	UC	WATERFORD 3			NINE MILE POINT 2			HARTSVILLE 3	(1205)	UC	
CALIFORNIA			MAINE			SHOREHAM			HARTSVILLE 4	(1205)	UC	
HUMBOLDT BAY	(63)	LIC	MAINE YANKEE			STERLING 1			SEQUOYAH 1	(1140)	UC/OL	
RANCHO SECO	(917)	LIC	(790)			JAMESPORT 1			SEQUOYAH 2	(1140)	UC/OL	
SAN ONOFRE 1	(630)	LIC	MARYLAND			JAMESPORT 2			WATTS BAR 1	(1165)	UC/OL	
DIABLO CANYON 1	(1084)	UC/OL	CALVERT CLIFFS 1			NEW HAVEN 1			WATTS BAR 2	(1165)	UC/OL	
DIABLO CANYON 2	(1104)	UC/OL	CALVERT CLIFFS 2			NEW HAVEN 2			PHIPPS BEND 1	(1276)	UC	
SAN ONOFRE 2	(1140)	UC/OL	(845)			NORTH CAROLINA			PHIPPS BEND 2	(1200)	UC	
SAN ONOFRE 3	(1140)	UC/OL	MASSACHUSETTS			BRUNSWICK 1			CLINCH RIVER	(350)	UR	
STANISLAUS 1	(1200)	A/O	PILGRIM 1			BRUNSWICK 2			TEXAS			
STANISLAUS 2	(1200)	A/O	PILGRIM 2			HARRIS 1			COMANCHE PEAK 1	(1150)	UC/OL	
COLORADO			YANKEE-ROWE			HARRIS 2			COMANCHE PEAK 2	(1150)	UC/OL	
FT. ST. VRAIN	(330)	LIC	MONTAGUE 1			HARRIS 3			SOUTH TEXAS 1	(1250)	UC/OL	
CONNECTICUT			MONTAGUE 2			HARRIS 4			SOUTH TEXAS 2	(1250)	UC/OL	
CONNECTICUT YANKEE	(575)	LIC	(1150)			MCGUIRE 1			ALLENS CREEK 1	(1150)	UR	
MILLSTONE 1	(660)	LIC	MICHIGAN			MCGUIRE 2			VERMONT			
MILLSTONE 2	(830)	LIC	PALISADES			PERKINS 1			VERMONT YANKEE	(514)	LIC	
MILLSTONE 3	(1159)	UC	BIG ROCK POINT			PERKINS 2			VIRGINIA			
FLORIDA			COOK 1			PERKINS 3			NORTH ANNA 1	(907)	LIC	
ST. LUCIE 1	(802)	LIC	COOK 2			MCLIRE 1			NORTH ANNA 2	(907)	UC/OL	
ST. LUCIE 2	(842)	UC	FERMI 2			MCGUIRE 2			NORTH ANNA 3	(907)	UC	
TURKEY POINT 3	(693)	LIC	MIDLAND 1			PERKINS 1			NORTH ANNA 4	(907)	UC	
TURKEY POINT 4	(693)	LIC	MIDLAND 2			FERRY 1			SURRY 1	(822)	LIC	
CRYSTAL RIVER 3	(825)	LIC	MIDLAND 3			FERRY 2			SURRY 2	(822)	LIC	
GEORGIA			GREENWOOD 2			ERIE 1			CENTRAL VIRGINIA 1	(1150)	A/O	
HATCH 1	(717)	LIC	GREENWOOD 3			ERIE 2			CENTRAL VIRGINIA 2	(1150)	A/O	
HATCH 2	(792)	LIC	(1200)			OKLAHOMA			WASHINGTON			
VOGTLE 1	(1100)	UC	MINNESOTA			BLACK FOX 1			WASH. NUCLEAR 1	(1267)	UC	
VOGTLE 2	(1100)	UC	MONTICELLO			BLACK FOX 2			WASH. NUCLEAR 2	(1105)	UC/OL	
ILLINOIS			PRAIRIE ISLAND 1			OREGON			WASH. NUCLEAR 4	(1267)	UC	
DRESDEN 1	(209)	LIC	PRAIRIE ISLAND 2			TROJAN			WASH. NUCLEAR 3	(1242)	UC	
DRESDEN 2	(794)	LIC	(530)			PEBBLE SPRINGS 1			WASH. NUCLEAR 5	(1242)	UC	
DRESDEN 3	(794)	LIC	(530)			PEBBLE SPRINGS 2			SKAGIT 1	(1277)	UR	
QUAD CITIES 1	(789)	LIC	MISSISSIPPI			WASH. NUCLEAR 1			WISCONSIN			
QUAD CITIES 2	(789)	LIC	GRAND GULF 1			WASH. NUCLEAR 2			KEAUUNEE	(535)	LIC	
ZION 1	(1040)	LIC	GRAND GULF 2			WASH. NUCLEAR 3			POINT BEACH 1	(497)	LIC	
ZION 2	(1040)	LIC	YELLOW CREEK 1			WASH. NUCLEAR 4			POINT BEACH 2	(497)	LIC	
BRAIDHOOD 1	(1120)	UC/OL	YELLOW CREEK 2			WASH. NUCLEAR 5			LACROSSE	()	LIC	
BRAIDHOOD 2	(1120)	UC/OL	(1285)			WASH. NUCLEAR 6			HAVEN	(913)	UR	
BRYON 1	(1120)	UC/OL	MISSOURI			WASH. NUCLEAR 7			LEGEND			
BRYON 2	(1120)	UC/OL	CALLAWAY 1			WASH. NUCLEAR 8			LIC=LICENSES TO OPERATE			
CLINTON 1	(950)	UC	CALLAWAY 2			WASH. NUCLEAR 9			UC/OL=UNDER CONSTRUCTION/UNDER OL REVIEW			
CLINTON 2	(950)	UC	(1150)			WASH. NUCLEAR 10			UC=UNDER CONSTRUCTION/OL APPLICATION NOT RECEIVED			
LASALLE 1	(1078)	UC/OL	NEBRASKA			WASH. NUCLEAR 11			UR=UNDER CP REVIEW			
LASALLE 2	(1078)	UC/OL	FT. CALHOUN 1			WASH. NUCLEAR 12			UR/LWA=UNDER CP REVIEW/LWA ISSUED			
CHARROLL 1	(1150)	A/O	COOPER STATION			WASH. NUCLEAR 13			A/O=ANNOUNCED OR ORDERED			
CHARROLL 2	(1150)	A/O	(457)			WASH. NUCLEAR 14			NOT ON MAP			
NEW HAMPSHIRE			SEABROOK 1			RHODE ISLAND						
			SEABROOK 2			NEW ENGLAND 1						
			(1194)			NEW ENGLAND 2						
			(1194)									

*These states plus Delaware have emergency plans which have NRC concurrence.

1125 025

NEW APPLICATION FORECAST

DATA AS OF: AUGUST 31, 1979

SUMMARY OF CP FORECAST

	FACILITY NAME	UTILITY	PROJECT NUMBER	APPL. ER SUB. DATE	APPL. PSAR SUB. DATE
1979	NEW HAVEN 1 & 2	NEW YORK STATE ELECTRIC & GAS	596	11/22/78C	11/22/78C
	GREENWOOD 2 & 3	DETROIT EDISON	452	03/01/79C	03/01/79C
1980	CARROLL 1 & 2	COMMONWEALTH EDISON	559	01/00/80	01/00/81
	CENTRAL VIRGINIA 1 & 2	AMERICAN ELECTRIC POWER	338	05/00/80	05/00/80

OPERATING LICENSE REVIEWS

	FACILITY	DOCKET NUMBER	UTILITY	APPLICANT SUBMITS PSAR	APPLICANT SUBMITS ENV. RPT.
1979	CATAWBA 1 & 2	0413&0414	DUKE POWER	03/27/79C	03/27/79C
	MARBLE HILL 1 & 2	0546&0547	PUBLIC SERVICE OF INDIANA	06/01/79C	06/01/79C
1980	CALLAWAY 1 & 2	0483&0486	UNION ELECTRIC	10/00/79	11/00/79
	LIMERICK 1 & 2	0352&0353	PHILADELPHIA ELECTRIC	03/00/80	11/00/79
	PALO VERDE 1,2,3	0528-0530	ARIZONA PUBLIC SERVICE	11/00/79	02/00/80
	CLINTON 1 & 2	0461&0462	ILLINOIS POWER	12/00/79	12/00/79
	WOLF CREEK 1	050-00482	KANSAS GAS & ELECTRIC	01/00/80	03/00/80
	PERRY 1 & 2	0440&0441	CLEVELAND ELECTRIC ILLUMINATING	06/00/80	03/00/80
	SEABROOK 1 & 2	0445&0444	PUBLIC SERVICE OF NEW HAMPSHIRE	06/00/80	06/00/81

(CONTINUED ON NEXT PAGE)

NEW APPLICATION FORECAST—SPECIAL REVIEWS

DATA AS OF: AUGUST 31, 1979

SITE REVIEWS

PROJECT	PROJ NO	APPLICANT	TENDER DATE
CARROLL SITE	559	COMMONWEALTH EDISON	12/20/78C
FULTON SITE	463	PHILADELPHIA ELECTRIC	01/05/79C
FY 1979/80			
S. MIDDLE SERVICES SITE		SOUTH MIDDLE SERVICES	08/00/80

STANDARDIZATION REVIEWS

PROJECT	PROJ NO	APPLICANT	TENDER DATE
(FDA)CESSAR SYSTEM 80	470	COMBUSTION ENGINEERING	10/27/78C
FY 1979/80			

(FDA)GESSAR-238 NI NSSS	447	GENERAL ELECTRIC	11/00/79
(PDA)BARSSAR-CESSAR BOP		BROWN & ROOT	05/00/80
(PDA)BSAR-205 NSSS EXT.	561	BABCOX & WILCOX	05/00/80
(PDA)UESSAR-RESAR-414		UNITED ENG. & CONSTRUCTORS	08/00/80

OTHER SPECIAL REVIEWS

PROJECT	PROJ NO	APPLICANT	TENDER DATE
(SP)NASAP ALT. EVALS.	616		03/15/79C
FY 1979/80			
(SP)BNL HIGH FLUX MOD		DOE	09/00/79
(SP)GCFR PSID AMENDS.	456	HELIUM BREEDER ASSOC	09/00/79
(SP)A1W-A ADV. CORE MOD	656	DOE/NAVAL REACTORS	11/00/79
(SP)TREAT UPGRADE		DOE/NRA	11/00/79
(SP)HTGR PREAP. REVIEW	665	GAS COOLED REACTOR ASSOC	12/00/79

1125 027

SUMMARY OF STANDARDIZATION APPLICATIONS

DATE AS JF: JUNE 30, 1979

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 CESSAR-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.
CESSAR-251	GENERAL ELECTRIC	02/14/75	NSSS
RESAR-3S	WESTINGHOUSE	07/31/75	NSSS.
CESSAR-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		06/28/74	BOP DESIGN MATCHED TO RESAR-41.
CESSAR		10/21/74	BOP MATCHED TO CESSAR.
RESAR-3S		10/02/75	BOP MATCHED TO RESAR-3S.
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

1125 028

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 FO. 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 & SWESSAR/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		09/20/73	
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	TWO 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 KOSHKONONG 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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* REACTIVATED PROJECT

1125 029

PLANT DELAYS AND CANCELLATIONS - FY 79

DATA AS OF: AUGUST 31, 1979

PLANTS DELAYS AND CANCELLATIONS - FY 1979

TO DATE IN FISCAL YEAR 1979, UTILITIES HAVE ANNOUNCED DELAYS IN FUEL LOADING OR CANCELLATION OF PLANS FOR SIXTY-THREE (67) FUTURE FACILITIES. THE FOLLOWING REASONS HAVE BEEN CITED:

CONSTRUCTION	13 UNITS
FINANCIAL	15 UNITS
DEMAND FOR ELECTRICITY	23 UNITS
CONCERN OVER REACTOR SAFETY	9 UNIT
REGULATORY DELAY	7 UNIT
	<u>67 UNITS</u>

PLANT NAME	FLD AT START OF YEAR	CURRENT FLD ESTIMATE	SLIPPAGE * (MONTHS)	REASON	SOURCE OF INFORMATION
45 UNITS AUTHORIZED CONSTRUCTION					
BEAVER VALLEY 2 (852)	10-31-81	12-00-83	26 (2)	FINANCIAL	TOLEDO EDISON NEWS RELEASE - 11-78
BRAIDWOOD 1 (1120)	10-00-81	04-00-82	6 (2)	CONCERN OVER REACTOR SAF	WALL STREET JOURNAL - 06-04-79
BRAIDWOOD 2 (1120)	10-00-82	10-00-83	12	CONCERN OVER REACTOR SAF	WALL STREET JOURNAL - 06-04-79
BYRON 1 (1120)	10-00-81	10-00-82	12	CONCERN OVER REACTOR SAF	WALL STREET JOURNAL - 06-04-79
BYRON 2 (1120)	10-00-82	10-00-83	12	CONCERN OVER REACTOR SAF	WALL STREET JOURNAL - 06-04-79
CATAWBA 1 (1145)	06-00-81	04-00-83	10 (1)	FINANCIAL/REGULATORY	LETTER FROM APPLICANT - 07-27-79
CATAWBA 2 (1145)	06-00-82	01-00-85	21	FINANCIAL/REGULATORY	LETTER FROM APPLICANT - 07-27-79
CHEROKEE 1 (1280)	05-00-84	07-00-86	26	FIN/DEMAND/REG	NUCLEONICS WEEK - 06-21-79
CHEROKEE 2 (1280)	05-00-86	07-00-88	26	FIN/DEMAND/REG	NUCLEONICS WEEK - 06-21-79
DAVIS BESSE 2 (906)	10-00-85	10-00-88	36	FINANCIAL	TOLEDO EDISON NEWS RELEASE - 11-78
DAVIS BESSE 3 (906)	10-00-87	10-00-90	36	FINANCIAL	TOLEDO EDISON NEWS RELEASE - 11-78
DIABLO CANYON 1 (1084)	08-00-79	10-00-79	2	REGULATORY	LETTER FROM APPLICANT
DOUGLAS POINT 1 (1178)	UNKNOWN	CANCELLED	--	DEMAND FOR ELECTRICITY	NRR UTILITY SURVEY - 11-78
FARLEY 2 (829)	12-15-79	06-20-80	6	FINANCIAL	APCO PHO 78-215
FERMI 2	06-00-80	03-00-82	21 (2)	CONCERN OVER REACTOR SAF	WALL STREET JOURNAL - 05-03-79/06-26-79
FULTON 1	UNKNOWN	CANCELLED	--	DEMAND FOR ELECTRICITY	NRR UTILITY SURVEY - 11-78
FULTON 2	UNKNOWN	CANCELLED	--	DEMAND FOR ELECTRICITY	NRR UTILITY SURVEY - 11-78
GRAND GULF 1 (1250)	UNKNOWN	11-23-80	--	REGULATORY	LICENSEE ANNOUNCEMENT
HARTSVILLE 3 (1205)	04-26-82	UNKNOWN	--	DEMAND FOR ELECTRICITY	TVA NEWS RELEASE - 05-16-79
HARTSVILLE 4 (1205)	04-26-83	UNKNOWN	--	DEMAND FOR ELECTRICITY	TVA NEWS RELEASE - 05-16-79
MCGUIRE 1	UNKNOWN	05-00-80	--	FINANCIAL/REGULATORY	LETTER FROM APPLICANT - 07-27-79
MCGUIRE 2	UNKNOWN	01-00-82	--	FINANCIAL/REGULATORY	LETTER FROM APPLICANT - 07-27-79
MILESTONE 3 (1159)	UNKNOWN	12-00-85	--	REGULATORY/CONSTRUCTION	LETTER FROM APPLICANT - 08-03-79
NINE MILE POINT 2 (1080)	03-00-83	03-00-84	12	CONSTRUCTION	WALL STREET JOURNAL - 11-30-78
NORTH ANNA 3 (907)	11-00-81	11-00-85	48	DEMAND FOR ELECTRICITY	WASHINGTON POST - 06-17-79
NORTH ANNA 4 (907)	12-00-82	12-00-87	60	DEMAND FOR ELECTRICITY	WASHINGTON POST - 06-17-79
NORTH COAST 2 (583)	UNKNOWN	CANCELLED	--	DEMAND FOR ELECTRICITY	NRR UTILITY SURVEY - 11-78
PALO VERDE 1	11-00-81	12-00-82	13	LABOR & WEATHER PROBLEMS	WALL STREET JOURNAL - 05-11-79
PERRY 1 (1205)	05-00-81	07-00-82	14	FINANCIAL	TOLEDO EDISON NEWS RELEASE - 11-78
PERRY 2 (1205)	12-00-82	07-00-84	20	FINANCIAL	TOLEDO EDISON NEWS RELEASE - 11-78
PHIPPS BEND 2 (1220)	01-00-83	UNKNOWN	--	DEMAND FOR ELECTRICITY	TVA NEWS RELEASE - 05-16-79
SAN ONOFRE 2	UNKNOWN	11-00-80	--		LETTER FROM APPLICANT
SHOREHAM (854)	03-00-80	06-00-81	21	REGULATORY DELAY	WALL STREET JOURNAL - 05-31-79
SOUTH TEXAS 1 (1250)	05-00-80	09-00-83	40 (1)	REVIEW OF SCHEDULE	LETTER FROM APPLICANT - 10-30-78
SOUTH TEXAS 2 (1250)	10-00-81	09-00-85	47	REVIEW OF SCHEDULE	LETTER FROM APPLICANT - 10-30-78
SUSQUEHANNA 1 (1052)	04-01-80	03-00-81	10	CONSTRUCTION DELAYS	NRC STAFF NOTES/CITING - 06-26-79

1125 030

PLANT DELAYS AND CANCELLATIONS - FY 79

<u>PLANT NAME</u>	<u>FLD AT START OF YEAR</u>	<u>CURRENT FLD ESTIMATE</u>	<u>SLIPPAGE (MONTHS)</u>	<u>REASON</u>	<u>SOURCE OF INFORMATION</u>
SUSQUEHANNA 2 (1052)	12-01-85	05-01-85	5	CONSTRUCTION DELAYS	LICENSEE ANNOUNCEMENT
SUMMER 1 (900)	11-30-79	07-01-80	7	REVIEW OF SCHEDULE	LETTER FROM APPLICANT - 10-26-78
TYRONE 1	UNKNOWN	CANCELLED	--	REGULATORY	LETTER FROM APPLICANT - 07-26-79
WPSS 1 (1267)	06-00-82	06-00-83	12	CONSTRUCTION	WALL STREET JOURNAL - 01-29-79
WPSS 2 (1103)	03-15-80	03-00-81	12	CONSTRUCTION	WALL STREET JOURNAL - 01-29-79
WPSS 3 (1242)	07-00-83	10-00-84	15	CONSTRUCTION	WALL STREET JOURNAL - 01-29-79
WPSS 4 (1267)	12-00-83	12-00-84	12	CONSTRUCTION	WALL STREET JOURNAL - 01-29-79
WPSS 5 (1242)	01-00-85	12-00-85	11	CONSTRUCTION	WALL STREET JOURNAL - 01-29-79
YELLOW CREEK 2	02-00-83	UNKNOWN	--	DEMAND FOR ELECTRICITY	TVA NEWS RELEASE - 05-16-79

1125 031

PLANT DELAYS AND CANCELLATIONS - FY 79

122

PLANT NAME	FLD AT START OF YEAR	CURRENT FLD ESTIMATE	SLIPPAGE * (MONTHS)	REASON	SOURCE OF INFORMATION
11 UNITS UNDER CP REVIEW					
ATLANTIC 1 (1150)	N/S	CANCELLED	--	DEMAND FOR ELECTRICITY	WALL STREET JOURNAL - 12-20-78
ATLANTIC 2 (1150)	N/S	CANCELLED	--	DEMAND FOR ELECTRICITY	WALL STREET JOURNAL - 12-20-78
CARROLL SITE 1	10-00-88	10-00-90	24	CONCERN OVER REACTOR SAF	WALL STREET JOURNAL - 06-04-79
CARROLL SITE 2	10-00-89	10-00-91	24	CONCERN OVER REACTOR SAF	WALL STREET JOURNAL - 06-04-79
ERIE 1	00-00-86	06-00-89	36	FINANCIAL	TOLEDO EDISON NEWS RELEASE - 11-78
ERIE 2	00-00-88	06-00-91	36	FINANCIAL	TOLEDO EDISON NEWS RELEASE - 11-78
GREENE COUNTY	N/S	CANCELLED	--	FINANCIAL	WALL STREET JOURNAL - 04-06-79
GREENWOOD 2 (1200)	UNKNOWN	UNKNOWN	18	ADDITIONAL SAF FEATURES	WALL STREET JOURNAL - 06-26-79
GREENWOOD 3 (1200)	UNKNOWN	UNKNOWN	18	ADDITIONAL SAF FEATURES	WALL STREET JOURNAL - 06-26-79
PALO VERDE 4 (1238)	11-00-87	CANCELLED	--	CALIF/REG. ENVIRON.	WASHINGTON POST - 07-18-79
PALO VERDE 5 (1238)	11-00-89	CANCELLED	--	CALIF/REG. ENVIRON.	WASHINGTON POST - 07-18-79
7 UNITS ORDERED					
ATLANTIC 3 (1150)	N/S	CANCELLED	--	DEMAND FOR ELECTRICITY	WALL STREET JOURNAL - 12-20-78
ATLANTIC 4 (1150)	N/S	CANCELLED	--	DEMAND FOR ELECTRICITY	WALL STREET JOURNAL - 12-20-78
CAROLINA 1	00-00-89	CANCELLED	--	DEMAND FOR ELECTRICITY	WALL STREET JOURNAL - 01-05-79
CAROLINA 2	00-00-91	CANCELLED	--	DEMAND FOR ELECTRICITY	WALL STREET JOURNAL - 01-05-79
CARROLL 1 (1150)	00-00-87	00-00-88	12 (2)	DEMAND FOR ELECTRICITY	WALL STREET JOURNAL - 01-15-79
CARROLL 2 (1150)	00-00-88	00-00-89	12 (2)	DEMAND FOR ELECTRICITY	WALL STREET JOURNAL - 01-15-79
IOWA 1 (1200)	UNKNOWN	CANCELLED	--	DEMAND FOR ELECTRICITY	NRR UTILITY SURVEY - 11-78
4 UNITS ANNOUNCED					
MID-HUDSON EAST (1300)	UNKNOWN	CANCELLED	--	DEMAND FOR ELECTRICITY	NRR UTILITY SURVEY - 11-78
NINE MILE POINT 3 (1300)	UNKNOWN	CANCELLED	--	DEMAND FOR ELECTRICITY	NRR UTILITY SURVEY - 11-78
RANCHO SECO 2 (1100)	UNKNOWN	CANCELLED	--	DEMAND FOR ELECTRICITY	NRR UTILITY SURVEY - 11-78
SUMMIT 1 (1200)	UNKNOWN	CANCELLED	--	DEMAND FOR ELECTRICITY	NRR UTILITY SURVEY - 11-78

* - PARANTHETICAL NUMBER REPRESENTS THE NUMBER OF FLD CHANGES IN FY 1979.

1125 032

REGIONAL STATUS OF NUCLEAR POWER REACTORS

DATA AS OF: MAY 31, 1979

STATUS OF NUCLEAR POWER REACTORS

REGION 1	REGION 2	REGION 3	REGION 4	REGION 5	TOTAL	
7	6	7	1	8	42	REACTORS PLANNED OR ANNOUNCED
17	35	22	10	12	* 96	REACTORS AUTHORIZED TO CONSTRUCT
22	19	20	5	4	70	REACTORS LICENSED TO OPERATE
46	60	49	16	24	155	

* 4 UNITS WITH AN LWA ARE INCLUDED IN THE CONSTRUCTION CATEGORY.

STAGES OF REACTOR CONSTRUCTION - FIVE REGIONS

REGION	*0% TO 24%	25% TO 49%	50% TO 74%	75% TO 99%	TOTAL
1	8	4	2	3	17
2	21	2	3	8	35
3	9	5	5	3	22
4	5	3	2	0	10
5	6	1	3	2	12
TOTAL	49	16	15	16	* 96

* 4 UNITS WITH AN LWA ARE INCLUDED IN THE 0 TO 24% COMPLETE CATEGORY.

FUEL LOAD SLIPPAGES - PREVIOUS REPORTING PERIOD

DURING THE PERIOD FROM 12-01-78 TO 12-31-78, 94 PLANTS WERE AUTHORIZED TO ENGAGE IN CONSTRUCTION ACTIVITIES IN REGIONS 1 THRU 5. OF THESE 94 PLANTS, 4 WERE AUTHORIZED TO PROCEED UNDER LIMITED WORK AUTHORIZATION PERMITS.

DURING THE PERIOD FROM 12-01-78 TO 12-31-78, THE FOLLOWING LICENSING ACTIONS WERE AUTHORIZED:

NONE

THE FOLLOWING PLANTS REPORTED CHANGES IN THEIR ESTIMATED FUEL LOADING DATES DURING THE ABOVE REPORTING PERIOD:

PLANT NAME	FLD LAST MONTH	FLD THIS MONTH	SLIPPAGE/ (IMPROVEMENT)
NORTH ANNA 2	04-01-79	04-30-79	0.97 MONTHS
PERRY 1	* 05-30-81	05-01-82	11.03 MONTHS
PERRY 2	12-30-82	09-01-83	8.03 MONTHS
SHOREHAM	* 03-01-80	06-01-80	3.00 MONTHS
TIROBE 1	* 12-01-84	12-01-85	12.00 MONTHS
AVERAGE =			7.90 MONTHS

* First of a multi-unit or a single unit application.

1125 033

NUCLEAR STEAM SUPPLY SYSTEM CONTRACTS AWARDED

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

THROUGH 1964

YEAR OF ORDER

	GE	W	B&W	COMB	GAC	OTHER	TOTAL
1964	5(1590)	5(1287)	1(265)	—	1(40)	8(1145)	20(4327)
1965	3(2131)	3(2029)	—	—	1(30)	—	7(4490)
1966	9(7732)	6(4947)	3(2561)	2(1157)	—	—	20(16397)
1967	7(6225)	13(10814)	5(4365)	5(4116)	—	—	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)	9(10296)	2(1860)	11(13554)	—	—	30(34387)
1974	5(6043)	5(5660)	3(3669)	3(3842)	—	—	16(19214)
1975	—	—	—	—	—	—	—
1976	—	—	2(2200)	—	—	—	2(2200)
1977	—	—	—	4(2520)	—	—	4(2520)
1978	—	2(2300)	—	—	—	—	2(2300)
1979	—	—	—	—	—	—	—
1980	—	—	—	—	—	—	—
TOTAL	67(64373)	74(69132)	28(26668)	32(32476)	2(370)	8(1145)	211(194164)

PLANTS CANCELLED DURING CY 1971 THRU 1979 (NOT INCLUDED ABOVE)

	GE	W	B&W	COMB	GAC	OTHER	TOTAL
1971	—	—	—	—	4(3860)	—	4(3860)
1972	1(1171)	2(2300)	—	—	—	—	3(3471)
1973	—	4(4300)	—	—	—	—	4(4300)
1974	6(6928)	2(2336)	4(4662)	3(3518)	2(2320)	—	16(18552)
1975	—	4(4100)	—	—	—	—	4(4100)
1976	—	—	1(1200)	—	—	—	1(1200)
1977	—	—	—	—	—	—	—
1978	—	—	—	—	—	—	—

Note: To determine total orders by calendar year, both charts must be added.

SECTION II - OPERATING NUCLEAR POWER PLANTS

1125-035

OPERATING LICENSES ISSI)

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

★ Over 50% of rated power

22

1125 036

OPERATING LICENSES ISSUED

PLANT	DOCKET DATE	INITIAL LICENSE	FULL POWER LICENSE	ELAPSED MONTHS TO INITIAL LICENSE	ELAPSED MONTHS TO FULL POWER LICENSE ★	LICENSE NUMBER
50. THREE MILE ISLAND 1	03-02-70	04-19-74	06-24-74	49.5	51.7	DPR-50
51. ARKANSAS 1	04-26-71	05-21-74	05-21-74	36.8	36.8	DPR-51
52. BROWNS FERRY 2	09-25-70	06-28-74	08-02-74	45.1	46.2	DPR-52
53. PEACH BOTTOM 3	08-31-70	07-02-74	07-02-74	46.0	46.0	DPR-56
54. OCONEE 3	06-02-69	07-19-74	07-19-74	61.5	61.5	DPR-55
55. CALVERT CLIFFS 1	01-04-71	07-31-74	07-31-74	42.9	42.9	DPR-53
56. HATCH 1	03-22-71	08-06-74	10-13-74	40.4	42.7	DPR-57
57. RANCHO SECO 1	04-29-71	08-16-74	08-16-74	39.5	39.5	DPR-54
58. FITZPATRICK	06-04-71	10-17-74	10-17-74	40.4	40.4	DPR-59
59. COOK 1	02-02-71	10-25-74	10-25-74	44.7	44.7	DPR-58
60. PRAIRIE ISLAND 2	02-01-71	10-29-74	10-29-74	44.9	44.9	DPR-60
61. BRUNSWICK 2	10-03-72	12-27-74	12-27-74	26.8	26.8	DPR-62
62. MILLSTONE 2	08-14-72	08-01-75	09-30-75	35.5	37.5	DPR-65
63. TROJAN	02-09-73	11-21-75	11-21-75	33.4	33.4	NPF-1
64. INDIAN POINT 3	12-04-70	12-12-75	04-05-76	60.2	64.0	DPR-64
65. BEAVER VALLEY 1	10-18-72	01-30-76	07-02-76	39.4	44.4	DPR-66
66. ST LUCIE 1	03-05-73	03-01-76	03-01-76	35.8	35.8	DPR-67
67. BROWNS FERRY 3	09-25-70	07-02-76	08-18-76	69.2	70.7	DPR-68
68. CALVERT CLIFFS 2	01-04-71	08-13-76	11-30-76	67.3	70.8	DPR-69
69. SALEM 1	08-25-71	08-13-76	12-01-76	59.6	63.2	DPR-70
70. BRUNSWICK 1	10-03-72	09-08-76	11-12-76	47.1	49.3	DPR-71
71. NORTH ANNA 1	05-02-73	11-26-76	04-01-78	42.8	58.9	NPF-4
72. CRYSTAL RIVER 3	02-08-71	12-03-76	01-28-77	69.8	71.6	DPR-72
73. DAVIS-BESSE 1	03-31-73	04-22-77	04-22-77	48.7	48.7	NPF-3
74. FARLEY 1	08-30-73	06-25-77	06-25-77	45.8	45.8	NPF-2
75. COOK 2	02-01-71	12-23-77	12-23-77	82.7	82.7	DPR-74
76. THREE MILE ISLAND 2	04-04-74	02-08-78	02-08-78	46.1	46.1	DPR-73
77. HATCH 2	10-31-75	06-13-78	06-13-78	31.4	31.4	NPF-5
78. ARKANSAS 2	04-17-74	07-18-78	12-14-78	51.0	55.9	NPF-6

★ Over 50% of rated power

AUGUST 31, 1979

LICENSED TO OPERATE 70
 *LICENSES TERMINATED 6
 **PERMANENTLY SHUTDOWN 2
 78 PLANTS

1125 0323

MONTHLY HIGHLIGHTS OF COMMERCIAL NUCLEAR POWER UNITS

FOR MONTH OF
JULY 1979

LICENSED POWER REACTORS:

NUMBER	CAPACITY ¹ MW (Net)
67	48,771
2	1,927
1	0
70	48,998

POWER GENERATION

	REPORT MONTH	PREVIOUS MONTH	YEAR TO DATE
1. GROSS ELECT. TO (MWH)*	21,871,364	16,961,561	153,806,896
2. NET ELECTRICITY (MWH)	20,922,462	16,113,286	148,496,363
3. AVG. UNIT SERVICE FACTOR (%)	81.7	82.7	83.6
4. AVERAGE UNIT AVAILABILITY FACTOR (%)	43.9	56.4	49.1
5. AVERAGE UNIT CAPACITY FACTOR (MCF) (%)	56.4	49.2	58.7
6. AVG. UNIT CAPACITY FACTOR (DER) (%)	55.0	47.9	57.2
7. FORCED OUTAGE RATE (%)	18.9	18.3	18.5

NOTES

- *Based upon maximum dependable capacity, design capacity (net) of MFC and dependent.
 †Based upon units in operation - all that scheduled and not otherwise in forced operation.
 ‡Based on units not included being decommissioned.
 §Includes energy production not covered by specific contracts.
 ¶Over time - beyond permit (MFC) capacity (e.g., 100% - 100% capacity) - 100% capacity if any.

ACTUAL VS. POTENTIAL ENERGY PRODUCTION

		% OF POTENTIAL PRODUCTION
POTENTIAL POWER PRODUCTION IN THIS PERIOD BY UNITS IN COMMERCIAL OPERATION (Based on Maximum Dependable Capacity Net)	36,913,624 MWh	
ENERGY ACTUALLY PRODUCED DURING THIS REPORT PERIOD	21,871,364 MWh	81.2
ENERGY NOT PRODUCED DURING THIS REPORT PERIOD DUE TO SCHEDULED OUTAGES	3,741,974 MWh	10.4
ENERGY NOT PRODUCED DURING THIS REPORT PERIOD DUE TO FORCED OUTAGES	1,300,286 MWh	3.5
ENERGY NOT PRODUCED DURING THIS REPORT PERIOD [†] FOR OTHER REASONS	6,270,580 MWh	17.0
ENERGY NOT PRODUCED THIS REPORT PERIOD DUE TO NINE FORCED OUTAGES	3,358,961 MWh	9.4
NUMBER OF UNITS WITH POWER RESTRICTIONS IMPOSED BY NRC		

OUTAGE DATA

	NUMBER	HR	PERCENT OF CYCLE TIME	UNIT LOST PRODUCTION [†]
1. FORCED OUTAGES DURING MONTH	90	9,912	28.2	2,871,800
2. SCHEDULED OUTAGES DURING THE MONTH	76	7,718	22.5	2,761,834
3. TOTAL	166	17,630	50.7	5,633,634

†. Unit factor of 0.75 was assumed for units that did not operate at all during the period.

DERATED UNITS

PAGE	UNIT NAME	MAXIMUM DEPENDABLE CAPACITY (MW, NET)	FORCED LIMIT (MW, NET)
B-5	BIG ROCK POINT	61	6.1
C-3	CALVERT CLIFFS 1	850	290
D-8	DREHLEN 3	273	600
D-11	DUMAS BRUNEL	530	510
F-2-B	FORT ST. VRAIN	330	370
F-1	LACROSSE	48	48
F-2	NINE MILLS POINT	135	152
F-3	YANKEE DUNE	120	300

[†] Measured by NRC

THIS DATA REPRESENTS ONE MONTH ONLY.

1125 038

MONTHLY HIGHLIGHTS OF COMMERCIAL NUCLEAR POWER UNITS

FOR MONTH OF
JULY 1979

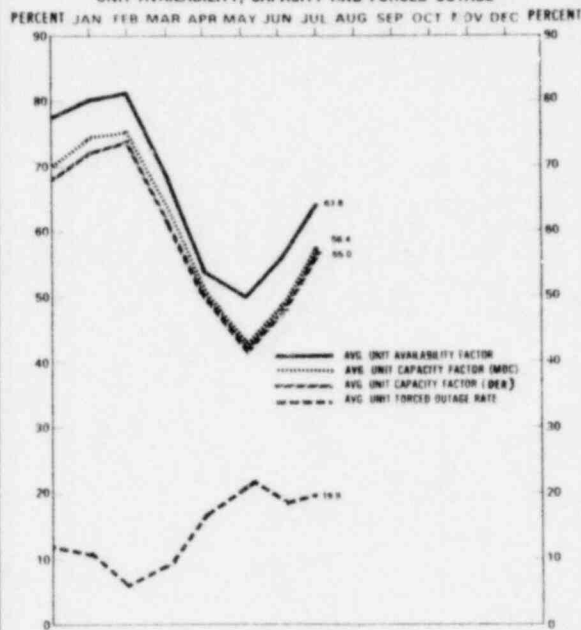
REASONS FOR SHUTDOWN

REASON	NUMBER	TOTAL HOURS LOST
A Equipment Failure	34	4,459.9
B Maintenance or Test	20	1,841.0
C Refueling	10	6,285.0
D NRC Restriction	9	4,140.3
E Operator Training and License Examination	0	0
F Administrative	3	97.6
G Operational Error	3	79.8
H Other	7	1,007.8
TOTAL	96	18,412.1

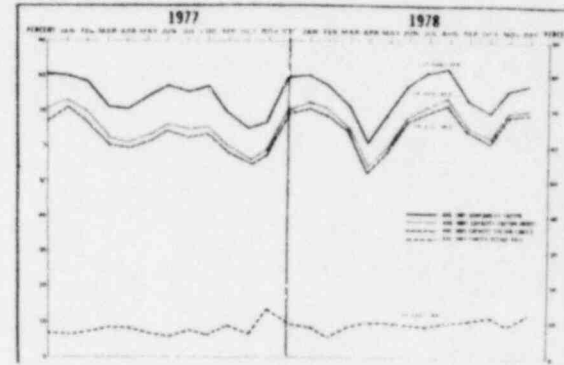
SHUTDOWNS GREATER THAN 72 HOURS EACH

UNIT NAME	REASON	UNIT NAME	REASON
ARKANSAS 1	A	INDIAN POINT 2	C
BEAVER VALLEY 1	D	REDAUGUE	C, H
BIG ROCK POINT 1	A	OCONEE 1	A
BRIWINGBAR 2	B	OCONEE 2	A, D
CALVERT CLIFFS 1	C	OCONEE 3	D
CALVERT CLIFFS 2	A	PILGRIM 1	70
COOK 1	B	POINT BEACH 2	B
CRYSTAL RIVER 3	C	PRAIRIE ISLAND 1	A
DAVIS BESSIE 1	D	RANCHO SECOS	B
OREGON 1	C	ROBINSON 2	C
OLIANE ARNOLD	H	SALEM 1	C
PARLEY 1	C	SURRY 1	D
PATTSBURGH	D	SURRY 2	C
FORT ST VRAIN	A	THREE MILE ISLAND 1	D
GINNA	H	THREE MILE ISLAND 2	A
HATCH 1	C	TROJAN	B
HUMBOLDT BAY	H		

UNIT AVAILABILITY, CAPACITY AND FORCED OUTAGE



UNIT AVAILABILITY, CAPACITY AND FORCED OUTAGE



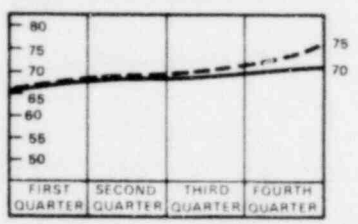
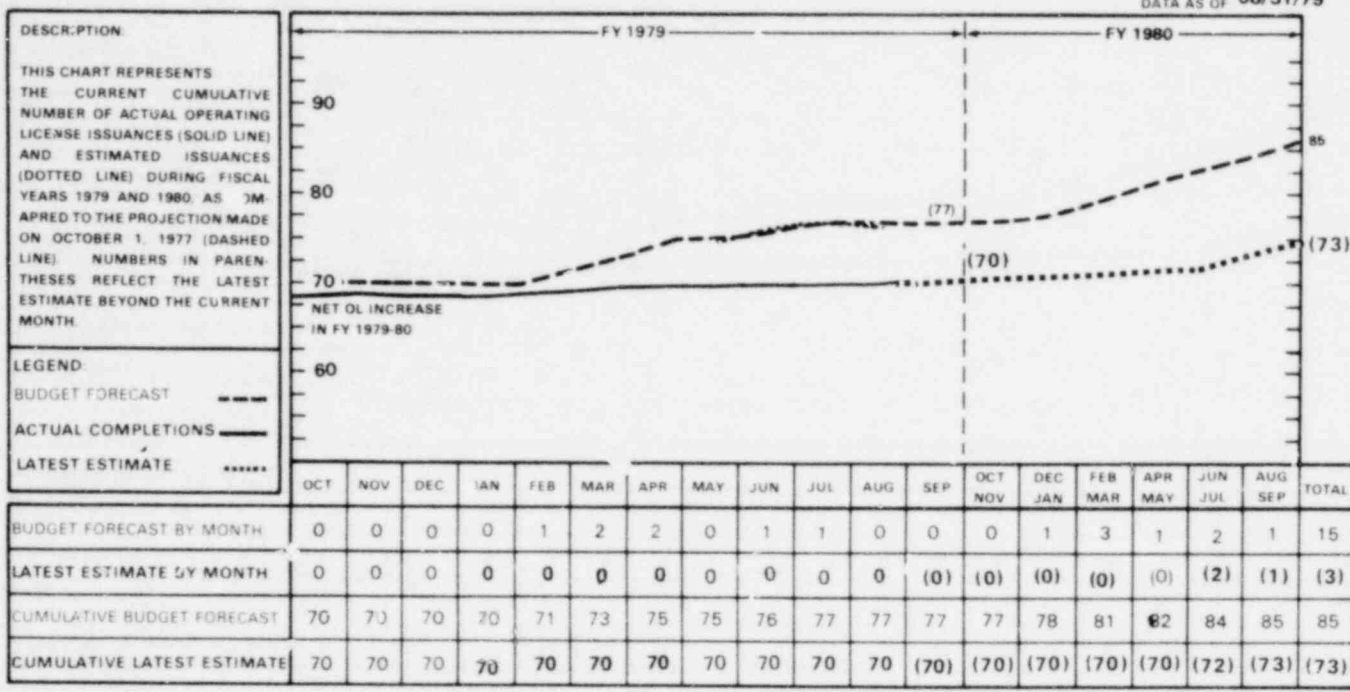
REFUELING - NEXT SIX MONTHS

Please refer to the table on page 3, 4 for refueling data for each nuclear powerplant in this publication.

1125 039

OPERATING LICENSE FORECAST (CUMULATIVE LICENSED FACILITIES AND PROJECTED OL ADDITIONS IN FY 79/80)

DATA AS OF 08/31/79



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.

APPLICATION	10-01-79 FORECAST	CONSTRUCTION COMPLETION	CURRENT ESTIMATE
FY 1980			
LASALLE 1 (1078)	12/00/79	06/00/80	06/00/80
ZIMMER 1 (0810)	07/00/79	07/00/80	07/00/80
MCGUIRE 1 (1180)	04/00/79	08/00/80	08/00/80
BEYOND FY 1980			
SUMNER 1 (0900)	04/30/80	10/00/80	10/01/80
SAN ONOFRE 2 (1100)	02/00/80	11/00/80	11/00/80
WATTS BAR 1 (1177)	09/00/80	12/00/80	12/00/80
WASHINGTON NUCLEAR 2 (1100)	08/00/80	03/00/81	03/08/81
ENRICO FERMI 2 (1093)	06/01/80	06/01/81	06/01/81
NOT SCHEDULED			
SALEM 2 (1115)	06/00/79	05/00/79C	N/S *
NORTH ANNA 2 (0907)	03/00/79	09/30/79	N/S
DIABLO CANYON 1 (1084)	02/20/79	10/00/79	N/S
SEQUOYAH 1 (1143)	04/00/79	11/00/79	N/S
DIABLO CANYON 2 (1106)	03/00/79	06/00/80	N/S
SEQUOYAH 2 (1148)	02/00/80	08/00/80	N/S
SHOREHAM (0819)	03/00/80	11/00/80	N/S

SECTION III - REACTORS UNDER CONSTRUCTION

1125 041

CONSTRUCTION PERMITS ISSUED

DOCKET NUMBER	FACILITY NAME	DOCKET DATE	CP ISSUED	ELAPSED MONTHS	CONSTRUCTION PERMIT NUMBER
050-00010	(LIC) DRESDEN 1 (0200)	04/01/55C	05/04/56C	13.1	CPPR-2
050-00003	(LIC) INDIAN POINT 1 (0265)	04/02/55C	05/04/56C	13.0	CPPR-1
050-00016	(WD) ENRICO FERMI 1 (0061)	01/07/56C	08/04/56C	6.9	CPPR-4
050-00029	(LIC) YANKEE-ROWE 1 (0175)	07/09/56C	11/04/57C	15.8	CPPR-5
115-00001	(WD) ELK RIVER (0022)	03/15/59C	01/09/60C	9.8	CAPR-1
115-00002	(WD) PIQUA (0011)	04/13/59C	01/28/60C	9.5	CPPR-2
050-00144	(WD) CVTR (0017)	07/09/59C	05/04/60C	9.8	CPPR-7
050-00130	(WD) PATHFINDER (0058)	04/01/59C	05/12/60C	13.3	CPPR-8
050-00155	(LIC) BIG ROCK POINT 1 (0075)	01/18/60C	05/31/60C	4.4	CPPR-9
115-00003	(WD) HALLAM (0075)	02/15/59C	06/28/60C	16.4	CAPR-3
115-00004	(WD) BONUS (0017)	12/15/59C	07/19/60C	7.1	CAPR-4
050-00133	(LIC) HUMBOLDT BAY (0065)	04/30/59C	11/09/60C	18.3	CPPR-10
050-00171	(WD) PEACH BOTTOM 1 (0040)	07/25/60C	02/23/62C	18.9	CPPR-12
050-00409	(FTL) LA CROSSE (0050)	11/05/62C	03/27/63C	4.8	CAPR-5
050-00206	(FTL) SAN ONOFRE 1 (0430)	02/04/63C	03/02/64C	12.9	CPPR-13
050-00213	(LIC) HADDAM NECK (0575)	09/09/63C	05/26/64C	8.5	CPPR-14
050-00219	(FTL) OYSTER CREEK 1 (0650)	03/30/64C	12/15/64C	8.5	CPPR-15
050-00220	(LIC) NINE MILE POINT 1 (0610)	04/01/64C	04/12/65C	12.3	CPPR-16
050-00237	(FTL) DRESDEN 2 (0794)	04/15/65C	01/10/66C	8.8	CPPR-18
050-00244	(FTL) GINNA (0490)	11/01/65C	04/25/66C	5.8	CPPR-19
050-00245	(FTL) MILLSTONE 1 (0652)	11/15/65C	05/19/66C	6.1	CPPR-20
050-00247	(LIC) INDIAN POINT 2 (0873)	12/06/65C	10/14/66C	10.2	CPPR-21
050-00249	(LIC) DRESDEN 3 (0809)	02/10/66C	10/14/66C	8.1	CPPR-22
050-00254	(LIC) QUAD CITIES 1 & 2 (0800)	05/31/66C	02/15/67C	8.4	CPPR-23&24
050-00255	(FTL) PALISADES (0700)	06/03/66C	03/14/67C	9.3	CPPR-25
050-00261	(FTL) ROBINSON 2 (0700)	07/25/66C	04/13/67C	8.6	CPPR-26
050-00250	(LIC) TURKEY POINT 3 & 4 (0666)	03/28/66C	04/27/67C	12.9	CPPR-27&28
050-00259	(LIC) BROWNS FERRY 1 & 2 (1067)	07/13/66C	05/10/67C	9.9	CPPR-29&30
050-00263	(FTL) MONTICELLO (0545)	08/08/66C	06/19/67C	10.3	CPPR-31
050-00266	(LIC) POINT BEACH 1 (0497)	08/31/66C	07/19/67C	10.6	CPPR-32
050-00269	(LIC) OCONNOR 1, 2 & 3 (0871)	12/01/66C	11/06/67C	11.1	CPPR-33, 34&35
050-00271	(LIC) VERMONT YANKEE 1 (0514)	12/02/66C	12/11/67C	12.3	CPPR-36
050-00277	(LIC) PEACH BOTTOM 2 & 3 (1065)	02/13/67C	01/31/68C	11.6	CPPR-37&38
050-00275	(OL) DIABLO CANYON 1 (1084)	01/18/67C	04/23/68C	15.1	CPPR-39
050-00289	(LIC) THREE MILE ISLAND 1 (0819)	05/03/67C	05/18/68C	12.5	CPPR-40
050-00298	(LIC) COOPER STATION (0778)	07/27/67C	06/04/68C	10.2	CPPR-42
050-00285	(LIC) FORT CALHOUN 1 (0457)	04/18/67C	06/07/68C	13.6	CPPR-41
050-00280	(LIC) SURRY 1 & 2 (0788)	03/20/67C	06/25/68C	15.1	CPPR-43&44
050-00282	(LIC) PRAIRIE ISLAND 1 & 2 (0530)	04/07/67C	06/25/68C	14.6	CPPR-45&46
050-00301	(LIC) POINT BEACH 2 (0497)	08/03/67C	07/25/68C	11.7	CPPR-47
050-00296	(LIC) BROWNS FERRY 3 (1067)	07/17/67C	07/31/68C	12.4	CPPR-48
050-00305	(LIC) KEWAUNEE (0541)	08/23/67C	08/06/68C	11.4	CPPR-50
050-00293	(LIC) PILGRIM 1 (0670)	06/30/67C	08/26/68C	13.8	CPPR-49
050-00267	(LIC) FORT ST VRAIN (0330)	10/20/66C	09/17/68C	22.9	CPPR-54
050-00272	(LIC) SALEM 1 & 2 (1090)	12/13/66C	09/25/68C	21.4	CPPR-52&53
050-00302	(LIC) CRYSTAL RIVER 3 (0825)	08/10/67C	09/25/68C	13.5	CPPR-51
050-00312	(LIC) RANCHO SECO 1 (0913)	11/20/67C	10/11/68C	10.7	CPPR-56
050-00309	(LIC) MAINE YANKEE (0790)	09/27/67C	10/21/68C	12.8	CPPR-55
050-00313	(LIC) ARKANSAS 1 (0850)	11/29/67C	12/06/68C	12.2	CPPR-57
050-00295	(LIC) ZION 1 & 2 (1050)	07/12/67C	12/26/68C	17.4	CPPR-58&59
050-00315	(LIC) COOK 1 & 2 (1060)	12/20/67C	03/25/69C	15.1	CPPR-60&61
050-00317	(LIC) CALVERT CLIFFS 1 & 2 (0845)	01/25/68C	07/07/69C	17.4	CPPR-63&64
050-00286	(LIC) INDIAN POINT 3 (0965)	04/26/67C	08/13/69C	27.5	CPPR-62
050-00321	(LIC) HATCH 1 (0786)	05/06/68C	09/30/69C	16.8	CPPR-65
050-00320	(LIC) THREE MILE ISLAND 2 (0906)	04/29/68C	11/04/69C	18.1	CPPR-66
050-00324	(LIC) BRUNSWICK 1 & 2 (0821)	07/31/68C	02/07/70C	18.2	CPPR-67&68
050-00333	(LIC) FITZPATRICK (0821)	12/31/68C	05/20/70C	16.6	CPPR-71
050-00327	(OL) SEQUOYAH 1 & 2 (1148)	10/15/68C	05/27/70C	19.4	CPPR-72&73
050-00331	(LIC) DUANE ARNOLD (0535)	11/04/68C	06/22/70C	19.6	CPPR-70
050-00334	(LIC) BEAVER VALLEY 1 (0852)	11/15/69C	06/26/70C	17.3	CPPR-75
050-00335	(LIC) ST LUCIE 1 (0907)	01/29/69C	07/01/70C	17.0	CPPR-74
050-00323	(OL) DIABLO CANYON 2 (1106)	07/01/68C	12/09/70C	29.2	CPPR-69
050-00336	(LIC) MILLSTONE 2 (0828)	02/28/69C	12/11/70C	21.4	CPPR-76
050-00344	(LIC) TROJAN (1130)	06/25/69C	02/08/71C	19.4	CPPR-79
050-00338	(LIC) NORTH ANNA 1 & 2 (0907)	03/21/69C	02/19/71C	22.9	CPPR-77&78
050-00346	(LIC) DAVIS-BESSE 1 (0906)	08/01/69C	03/24/71C	19.7	CPPR-80
050-00348	(LIC) FARLEY 1 & 2 (0829)	10/15/69C	08/16/72C	34.0	CPPR-85&86
050-00341	(OL) ENRICO FERMI 2 (1093)	04/29/69C	09/27/72C	40.9	CPPR-87
050-00358	(OL) ZIMMER 1 (0810)	04/06/70C	10/27/72C	30.7	CPPR-88
050-00368	(OL) ARKANSAS 2 (0912)	09/17/70C	12/06/72C	26.6	CPPR-89

(CONTINUED ON NEXT PAGE)

CONSTRUCTION PERMITS ISSUED

DOCKET NUMBER	FACILITY NAME	DOCKET DATE	CP ISSUED	ELAPSED MONTHS	CONSTRUCTION PERMIT NUMBER
050-00329	(OL) MIDLAND 1 & 2 (0460)	10/30/68C	12/15/72C	49.5	CPPR-81&82
050-00366	(LIC) HATCH 2 (0795)	09/11/70C	12/27/72C	27.5	CPPR-90
050-00390	(OL) WATTS BAR 1 & 2 (1177)	05/18/71C	01/23/73C	26.1	CPPR-91&92
050-00369	(OL) MCGUIRE 1 & 2 (1180)	09/18/70C	02/23/73C	29.1	CPPR-83&84
050-00397	(OL) WASHINGTON NUCLEAR 2 (1100)	08/19/71C	03/19/73C	19.0	CPPR-93
050-00395	(OL) SUMMER 1 (0900)	06/30/71C	03/21/73C	20.7	CPPR-94
050-00322	(OL) SHOREHAM (0819)	05/15/68C	04/14/73C	58.9	CPPR-95
050-00363	(PCP) FORKED RIVER (1070)	06/01/70C	07/10/73C	37.3	CPPR-96
050-00373	(OL) LASALLE 1 & 2 (1078)	11/03/70C	09/10/73C	34.2	CPPR-99&100
050-00361	(OL) SAN ONOFRE 2 & 3 (1100)	06/01/70C	10/18/73C	40.5	CPPR-97&98
050-00387	(OL) SUSQUEHANNA 1 & 2 (1050)	04/01/71C	11/02/73C	31.0	CPPR-101&102
050-00367	(PCP) BAILLY 1 (0645)	08/24/70C	05/01/74C	44.2	CPPR-104
050-00412	(PCP) BEAVER VALLEY 2 (0852)	10/20/72C	05/03/74C	18.4	CPPR-105
050-00352	(PCP) LIMERICK 1 & 2 (1065)	02/27/70C	06/19/74C	51.7	CPPR-106&107
050-00410	(PCP) NINE MILE POINT 2 (1100)	06/15/72C	06/24/74C	24.3	CPPR-112
050-00424	(PCP) VOGTLE 1,2,3,4 (1113)	02/13/73C	06/28/74C	16.5	CPPR-108, 109, 110, 111
050-00404	(PCP) NORTH ANNA 3 & 4 (0907)	09/15/71C	07/26/74C	34.3	CPPR-114&115
050-00423	(PCP) MILLSTONE 3 (1156)	02/10/73C	08/09/74C	17.9	CPPR-113
050-00416	(OL) GRAND GULF 1 & 2 (1250)	11/17/72C	09/04/74C	21.5	CPPR-118&119
050-00354	(PCP) HOPE CREEK 1 & 2 (1067)	02/27/70C	11/04/74C	56.2	CPPR-120&121
050-00382	(OL) WATERFORD 3 (1113)	12/19/70C	11/14/74C	46.8	CPPR-103
050-00445	(OL) COMANCHE PEAK 1 & 2 (1150)	07/20/73C	12/19/74C	16.9	CPPR-126&127
050-00434	(WD) SURREY 3 & 4 (0859)	05/29/73C	12/20/74C	18.7	CPPR-124&125
050-00438	(OL) BELLEFONTE 1 & 2 (1213)	06/21/73C	12/24/74C	18.1	CPPR-122&123
050-00413	(PCP) CATAWBA 1 & 2 (1145)	10/27/72C	08/07/75C	33.3	CPPR-116&117
050-00498	(OL) SOUTH TEXAS 1 & 2 (1250)	07/05/74C	12/22/75C	17.5	CPPR-128&129
050-00460	(PCP) WASHINGTON NUCLEAR 1 (1218)	10/18/73C	12/24/75C	26.2	CPPR-134
050-00456	(OL) BRAIDWOOD 1 & 2 (1120)	09/20/73C	12/31/75C	27.3	CPPR-132&133
050-00454	(OL) BYRON 1 & 2 (1120)	09/20/73C	12/31/75C	27.3	CPPR-130&131
050-00461	(PCP) CLINTON 1 & 2 (0933)	10/30/73C	02/24/76C	27.8	CPPR-137&138
050-00483	(PCP) CALLAWAY 1 & 2 (1120)	06/21/74C	04/16/76C	21.8	CPPR-139&140
050-00528	(PCP) PALO VERDE 1,2,3 (1270)	10/07/74C	05/25/76C	19.6	CPPR-141, 142&143
050-00443	(PCP) SEABROOK 1 & 2 (1200)	07/09/73C	07/07/76C	35.9	CPPR-135&136
050-00458	(PCP) RIVER BEND 1 & 2 (0934)	09/24/73C	03/25/77C	42.0	CPPR-145&146
050-00389	(PCP) ST LUCIE 2 (0810)	05/15/73C	05/02/77C	47.5	CPPR-144
050-00440	(PCP) PERRY 1 & 2 (1205)	06/25/73C	05/03/77C	46.2	CPPR-148&149
050-00518	(PCP) HARTSVILLE A1,A2,B1,B2 (1233)	11/22/74C	05/09/77C	29.5	CPPR-150, 151, 152, 153
050-00482	(PCP) WOLF CREEK 1 (1150)	07/26/74C	05/17/77C	33.7	CPPR-147
050-00485	(PCP) STERLING 1 (1150)	06/21/74C	09/01/77C	38.3	CPPR-156
050-00484	(PCP) TYRONE 1 (1150)	06/21/74C	12/27/77C	42.2	CPPR-157
050-00491	(PCP) CHEROKEE 1,2,3 (1280)	05/24/74C	12/30/77C	43.2	CPPR-167, 168, 169
050-00553	(PCP) PHIPPS BEND 1 & 2 (1233)	11/07/75C	01/16/78C	26.3	CPPR-162, 163
050-00400	(PCP) HARRIS 1,2,3,4 (0900)	09/17/71C	01/27/78C	76.3	CPPR-158, 159, 160, 161
050-00513	(PCP) WASHINGTON NUCLEAR 4 (1218)	10/18/73C	02/21/78C	52.1	CPPR-174
050-00546	(PCP) MARBLE HILL 1 & 2 (1130)	09/17/75C	04/04/78C	30.5	CPPR-170, 171
050-00508	(PCP) WASHINGTON NUCLEAR 3&5 (1242)	08/02/74C	04/11/78C	44.3	CPPR-154, 155
050-00566	(PCP) YELLOW CREEK 1 & 2 (1285)	07/16/76C	11/29/78C	28.4	CPPR-172, 173
050-00516	(PCP) JAMESPORT 1 & 2 (1150)	09/06/74C	01/04/79C	51.9	CPPR-175, 176

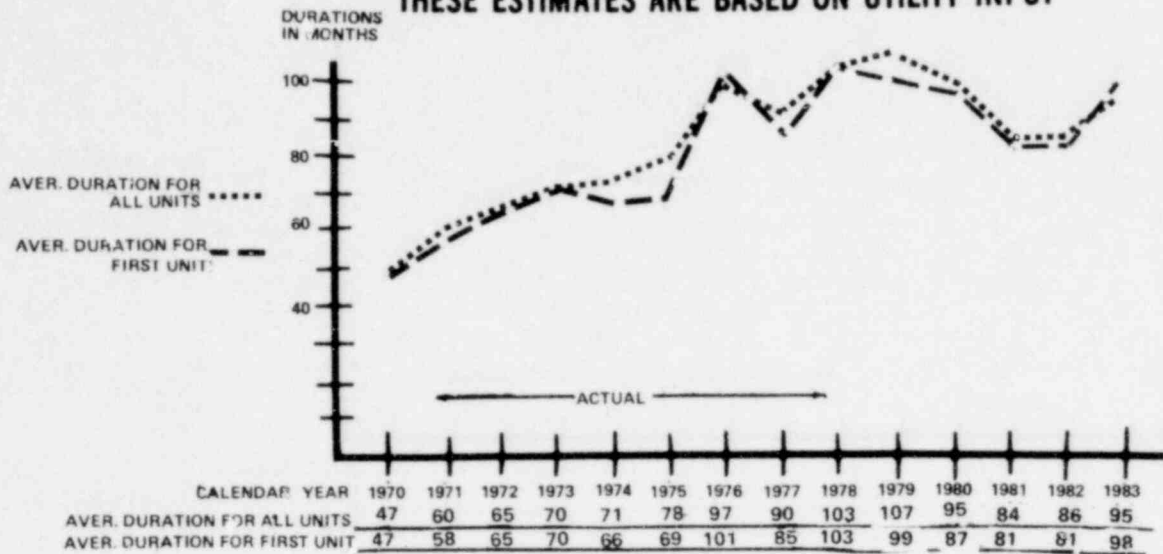
YEAR	ISSUED	AVERAGE (IN MONTHS)
FY 1971	6	21.7
FY 1972	0	0
FY 1973	11	32.6
FY 1974	9	33.1
FY 1975	8	28.8
FY 1976	9	26.3
FY 1977	6	39.5
FY 1978	7	44.7* (39.4)**
FY 1979	2	40.2

SINCE 1955, 174 CONSTRUCTION PERMITS HAVE BEEN ISSUED.

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

AVERAGE DURATION FOR NUCLEAR POWER PLANT CONSTRUCTION

THESE ESTIMATES ARE BASED ON UTILITY INPUT



CALENDAR YEAR 1979 - PROJECTED DURATIONS

FACILITY		START CONSTRUCTION	FLD ESTIMATE	PERCENT COMPLETE	TYPE REACTOR	MWE	CONSTRU. DURATION **
DIABLO CANYON 1	*	06-14-68	02-00-79	99%	PWR	1084	127.5
DIABLO CANYON 2		06-14-68	02-00-79	+ 98%	PWR	1106	127.5
SALEM 2		01-01-68	02-01-79	99%	PWR	1115	133.0
MCGUIRE 1	*	04-01-71	02-01-79	95%	PWR	1180	94.0
NORTH ANNA 2		12-08-69	04-30-79	98%	PWR	943	112.7
SEQUOYAH 1	*	05-05-69	+06-01-79	+ 97%	PWR	1140	120.9
LASALLE 1	*	10-10-73	+07-01-79	+ 88%	BWR	1078	68.7
ZIMMER 1	*	06-01-71	+10-00-79	+ 93%	BWR	810	100.0
WATTS BAR 1	*	01-15-73	12-01-79	+ 90%	PWR	1165	82.5

AVE=1069 AVE= 107.4

CALENDAR YEAR 1980 - PROJECTED DURATIONS

FACILITY		START CONSTRUCTION	FLD ESTIMATE	PERCENT COMPLETE	TYPE REACTOR	MWE	CONSTRU. DURATION **
SEQUOYAH 2		05-05-69	+02-01-80	+ 80%	PWR	1140	128.9
SAN ONOFRE 2	*	03-04-74	02-18-80	+ 71%	PWR	1140	71.5
LASALLE 2		08-01-72	03-01-80	+ 67%	BWR	1078	91.0
SUSQUEHANNA 1	*	11-05-73	05-01-80	+ 85%	BWR	1052	77.9
FARLEY 2		10-00-70	+05-15-80	+ 76%	PWR	829	115.5
ENRICO FERMI 2	*	06-01-69	06-01-80	+ 80%	BWR	1123	132.0
SHOREHAM	*	11-01-72	06-01-80	+ 81%	BWR	854	91.0
SUMMER 1	*	04-12-73	07-01-80	+ 82%	PWR	900	86.6
COMANCHE PEAK 1	*	10-18-74	08-01-80	+ 71%	PWR	1150	69.4
WATTS BAR 2		01-15-73	09-01-80	+ 72%	PWR	1165	91.5
GRAND GULF 1	*	05-03-74	10-01-80	77%	BWR	1250	76.9
MCGUIRE 2		04-01-71	10-10-80	60%	PWR	1180	114.3
MIDLAND 2	*	06-15-73	11-00-80	+ 60%	PWR	818	88.5

AVE=1052 AVE= 95.0

AVERAGE DURATION FOR NUCLEAR POWER PLANT CONSTRUCTION

CALENDAR YEAR 1981 - PROJECTED DURATIONS

FACILITY		START CONSTRUCTION	FLD ESTIMATE	PERCENT COMPLETE	TYPE REACTOR	MWE	CONSTRU. ** DURATION
CATAWBA 1	*	06-16-74	02-01-81	40%	PWR	1145	79.5
BELLEFRONTE 1	*	09-17-74	03-01-81	+ 63%	PWR	1235	77.5
BYRON 1	*	06-01-75	03-01-81	+ 58%	PWR	1120	69.0
WASHINGTON NUCLEAR 2	*	06-28-72	+03-15-81	+ 64%	BWR	1103	104.6
BRAIDWOOD 1	*	08-01-75	05-00-81	+ 51%	PWR	1120	69.0
WATERFORD 3	*	12-01-74	05-01-81	+ 64%	PWR	1165	77.0
SAN ONOFRE 3		03-04-74	05-11-81	+ 59%	PWR	1140	86.2
MIDLAND 1		06-15-73	11-00-81	+ 54%	PWR	492	100.5
NORTH ANNA 3	*	07-01-72	11-01-81	07%	PWR	907	112.0
SUSQUEHANNA 2		11-05-73	11-01-81	+ 52%	BWR	1052	95.9
SOUTH TEXAS 1	*	09-22-75	11-01-81	39%	PWR	1250	73.3
PALO VERDE 1	*	06-01-76	11-01-81	+ 35%	PWR	1270	65.0
BELLEFRONTE 2		09-17-74	12-01-81	+ 44%	PWR	1235	86.5

AVE=1095 AVE= 84.3

CALENDAR YEAR 1982 - PROJECTED DURATIONS

FACILITY		START CONSTRUCTION	FLD ESTIMATE	PERCENT COMPLETE	TYPE REACTOR	MWE	CONSTRU. ** DURATION
HARTSVILLE A-1	*	04-26-76	03-01-82	+ 19%	BWR	1205	70.2
MARBLE HILL 1	*	08-24-77	04-00-82	+ 19%	PWR	1130	55.2
CLINTON 1	*	10-06-75	04-01-82	+ 45%	BWR	950	77.8
CALLAWAY 1	*	03-01-76	04-01-82	+ 38%	PWR	1150	75.0
BYRON 2		07-01-75	05-00-82	+ 46%	PWR	1120	82.0
BRAIDWOOD 2		08-01-75	05-00-82	+ 40%	PWR	1120	81.0
PERRY 1	*	10-21-74	05-01-82	+ 38%	BWR	1205	90.3
ST LUCIE 2	*	06-10-76	05-01-82	13%	PWR	842	70.7
COMANCHE PEAK 2		10-18-74	08-01-82	+ 29%	PWR	1150	93.4
CATAWBA 2		06-16-74	08-01-82	31%	PWR	1145	97.5
HARTSVILLE B-1		04-26-76	09-01-82	+ 16%	BWR	1205	76.2
BLACK FOX 1	*	UNKNOWN	10-01-82	00%	BWR	1150	0.0
LIMERICK 1	*	08-01-70	10-01-82	+ 52%	BWR	1065	146.0
WOLF CREEK 1	*	07-05-77	10-01-82	+ 28%	PWR	1150	62.9
SOUTH TEXAS 2		11-01-75	11-01-82	11%	PWR	1250	84.0
NORTH ANNA 4		07-01-72	12-01-82	04%	PWR	907	125.0

AVE=1109 AVE= 85.7

CALENDAR YEAR 1983 - PROJECTED DURATIONS

FACILITY		START CONSTRUCTION	FLD ESTIMATE	PERCENT COMPLETE	TYPE REACTOR	MWE	CONSTRU. ** DURATION
SEABROOK 1	*	07-08-76	01-01-83	+ 19%	PWR	1194	77.8
HARTSVILLE A-2		04-26-76	03-01-83	+ 08%	BWR	1205	82.2
PHIPPS BEND 1	*	10-18-77	05-01-83	+ 05%	BWR	1220	66.4
HARRIS 1	*	01-21-74	06-01-83	+ 15%	PWR	915	112.3
WASHINGTON NUCLEAR 1	*	08-04-75	+06-01-83	+ 21%	PWR	1267	93.9
MARBLE HILL 2		08-24-77	07-00-83	05%	PWR	1130	70.2
GRAND GULF 2		05-03-74	07-01-83	00%	BWR	1250	109.9
FORKED RIVER	*	08-15-73	08-01-83	+ 05%	PWR	1070	119.5
BAILLY 1	*	08-01-74	09-01-83	01%	BWR	660	109.0
PERRY 2		10-21-74	09-01-83	+ 23%	BWR	1205	106.3
HARTSVILLE B-2		04-26-76	09-01-83	+ 06%	BWR	1205	88.2
PALO VERDE 2		10-01-76	11-01-83	+ 14%	PWR	1270	85.0
HOPE CREEK 1	*	03-01-76	11-30-83	+ 15%	BWR	1067	93.0
BEAVER VALLEY 2	*	05-04-74	12-31-83	+ 28%	PWR	852	115.9

AVE=1108 AVE= 95.0

*Indicates the first unit of a multi-unit application or single unit application.

**In Calendar Months

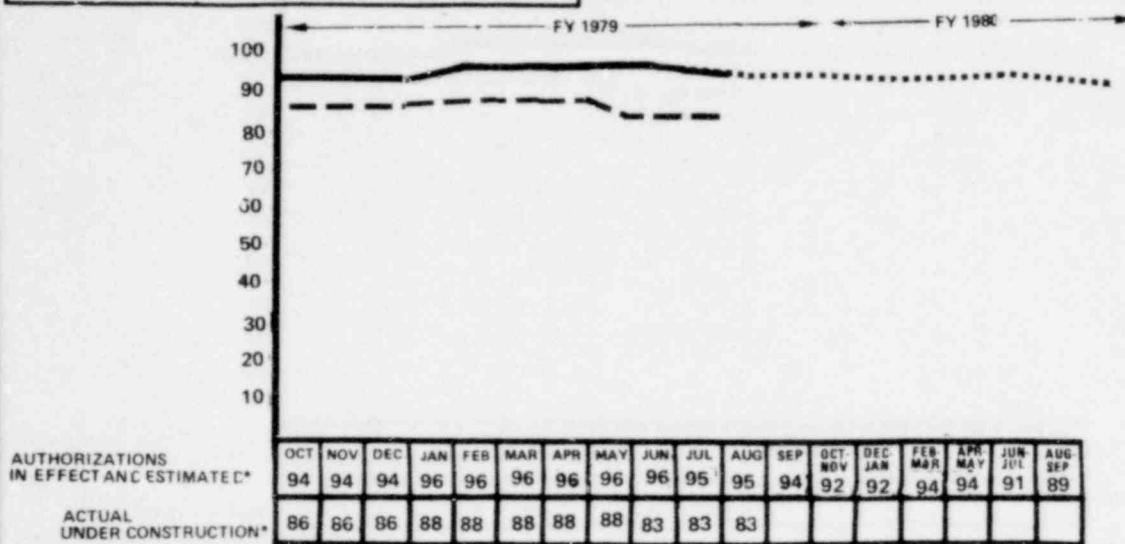
+Indicates a change in the information from the previous reporting period

1125 045

NUCLEAR POWER PLANTS UNDER CONSTRUCTION

DATA AS OF: AUGUST 31, 1979

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 LO AND THE DASHED LINE SHOWS UNITS ACTUALLY ENGAGED IN CONSTRUCTION.



AUTHORIZATIONS GRANTED[†] ———
 ACTUALLY UNDER CONSTRUCTION - - - -
 FUTURE AUTHORIZATIONS
 * IN UNITS

LIMITED WORK AUTHORIZATION OR CONSTRUCTION PERMIT GRANTED:
 † LWA'S & CP'S IN EFFECT

ACTIVELY UNDER CONSTRUCTION

FACILITY	AUTH. DATE
BAILLY 1	05-01-74
BEAVER VALLEY 2	05-03-74
BELLEFONTE 1 & 2	09-17-74
BLACK FOX 1 & 2	07-24-78
BRAIDWOOD 1 & 2	01-13-75
BYRON 1 & 2	12-13-74
CALLAWAY 1	08-14-75
CATAWBA 1 & 2	05-16-74
CHEROKEE 1, 2, 3	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
FORKED RIVER	07-10-73
GRAND GULF 1 & 2	05-03-74
HARRIS 1, 2, 3, 4	01-01-74
HARTSVILLE 1,2	04-22-76
HOPE CREEK 1 & 2	11-04-74
JAMESPORT 1 & 2	01-04-79
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 1 & 2	05-27-70
SHOREHAM	04-14-73
SOUTH TEXAS 1 & 2	08-12-75
SUMMER 1	03-21-73
SUSQUEHANNA 1 & 2	11-02-73
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 - 83

AUTHORIZED BUT NOT UNDER CONSTRUCTION

FACILITY	AUTH. DATE
CALLAWAY 2	08-14-75
CLINTON 2	10-01-75
DAVIS BESSE 2 & 3	12-31-75
HARTSVILLE 3 & 4	04-22-76
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

12 UNITS

SECTION IV -

CONSTRUCTION PERMIT APPLICATIONS

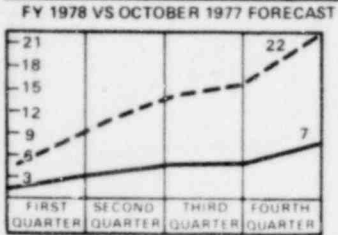
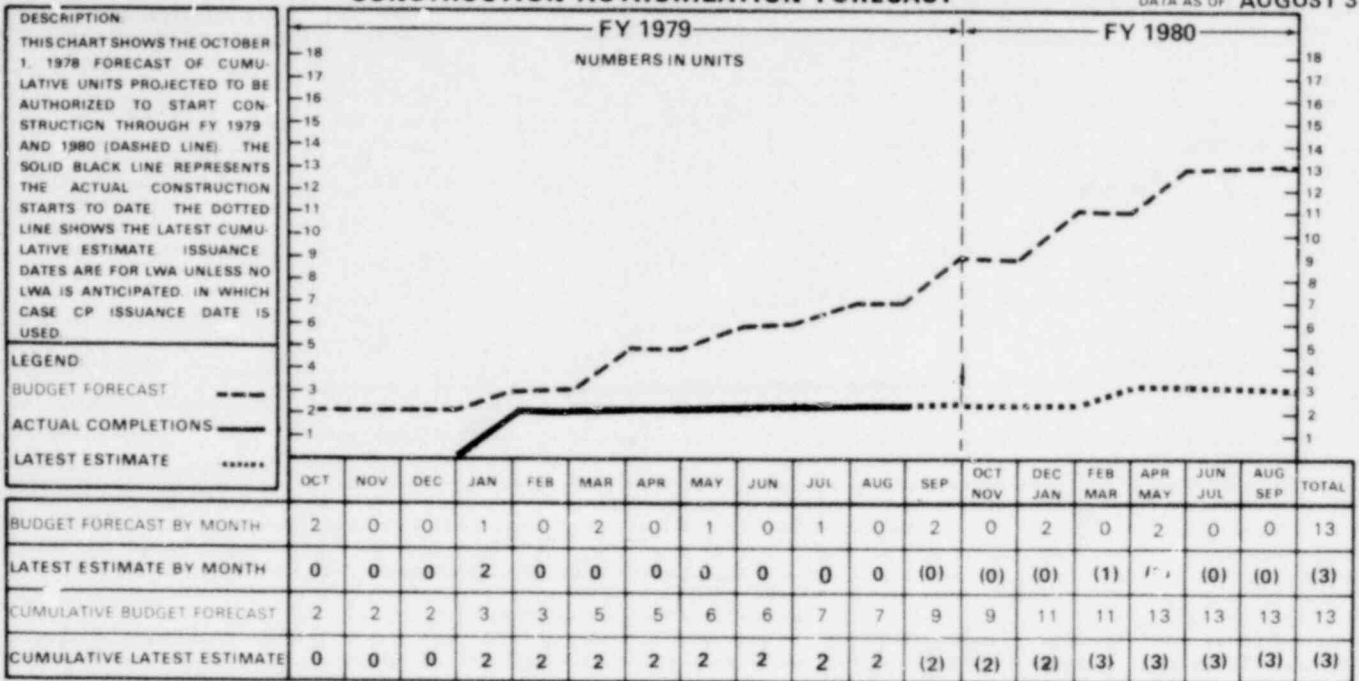
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SPECIAL PROJECTS UNDER NRC REVIEW

1125 047

CONSTRUCTION AUTHORIZATION FORECAST

DATA AS OF AUGUST 31, 1979



<p>NOTES N/S: Not scheduled N/A: Milestone or Schedule Terminated *: LWA not requested</p>	<p>SUMMARY UNITS AUTHORIZED CONSTRUCTION 2 AUTHORIZED TO DATE 29% OF FORECAST 3 BY END OF FY 1980 23% OF FORECAST</p>
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APPLICATIONS (MWe)	10/1/78 FORECAST	LATEST ESTIMATE
FY 1979		
(CP) *JAMESPORT 1 & 2 (1150)	10/30/78	01/04/79C
FY 1980		
(CP) *ALLENS CREEK 1 (1150)	05/25/79	03/00/80
BEYOND 1980		
NOT SCHEDULED		
(CP) PILGRIM 2 (1180)	01/12/79	N/S
(CP) ERIE 1 & 2 (1260)	03/28/79	N/S
(CP) *GREENE COUNTY (1191)	07/09/79	N/S
(CP) *NEW ENGLAND 1 & 2 (1194)	09/01/79	N/S
(CP) PALO VERDE 4 & 5 (1238)	12/14/79	N/S
(CP) *HAVEN 1 (AMEND) (0900)	05/00/80	N/S
(CP) *ALLENS CREEK 1 (1150)	05/25/79	03/00/80

NOTE - Haven 2 cancelled.

1125 048

LIMITED WORK AUTHORIZATIONS ISSUED

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

DATA AS OF: AUGUST 3, 1979

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 3	01-15-71	05-14-74	39.9		
3. CATAWBA 1 & 2	10-27-72	05-16-74	18.7		
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	09-17-74	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	08-14-75	13.7		
17. RIVER BEND 1 & 2	09-21-73	09-03-75	23.4		
18. CLINTON 1 & 2	10-30-73	10-01-75	23.1		
19. DAVIS BESSE 2 & 3	08-09-74	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	21.0	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	04-08-77	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.

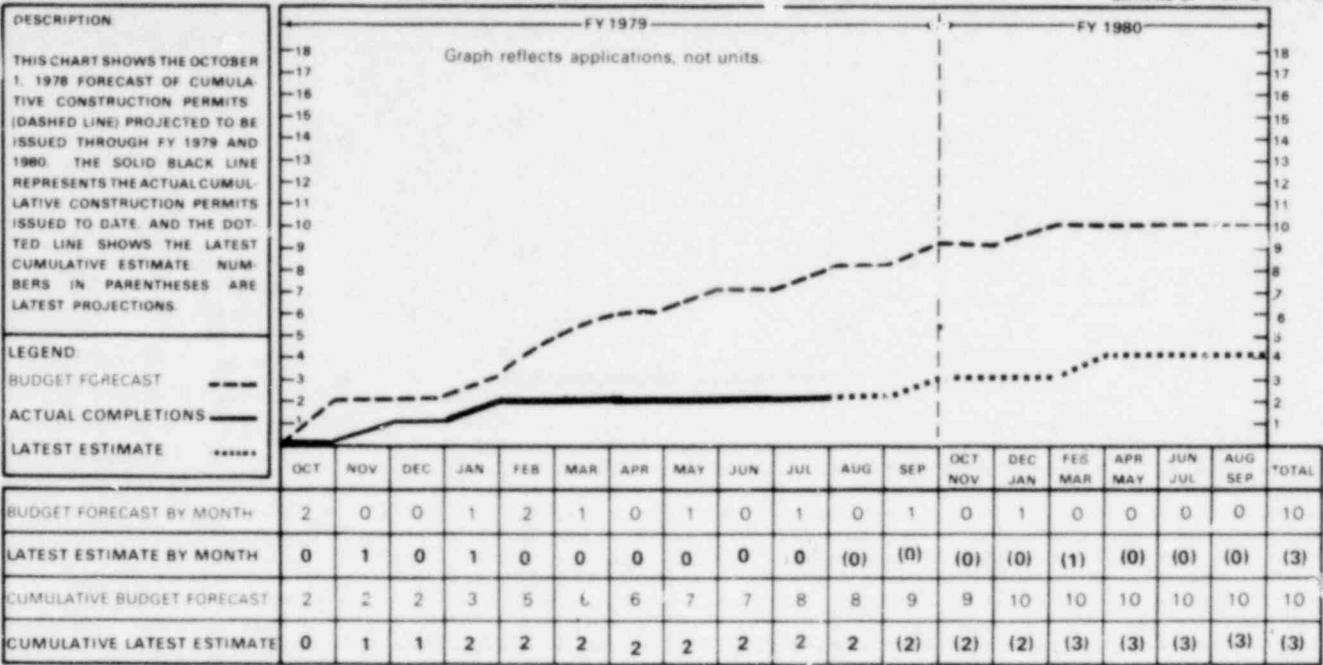
**PERRY 1 & 2 WAS GRANTED AN EXTENDED LWA-2 ON 12-31-75, AND AN AMENDMENT ON MAY 12, 1976 AND SEPT 17, 1976.

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

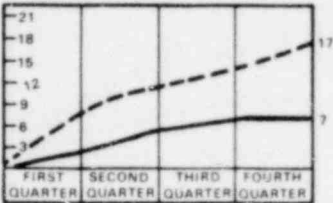
****WPPS 3 & 5 GRANTED AMENDMENT TO LWA ON MAY 10, 1977.

CONSTRUCTION PERMIT FORECAST

DATA AS OF **AUGUST 31, 1979**



FY 1978 VS OCTOBER 1977 FORECAST



NOTES	SUMMARY
N/S: Currently not scheduled N/A: Schedule Terminated	No CP applications were completed in August. 2 CP applications are estimated for completion by the end of FY 1979 representing 22% of the forecast.

APPLICATIONS (MWe)

	FISCAL YEAR 1979	10-01-78 FORECAST	CURRENT ESTIMATE
YELLOW CREEK 1 & 2 (1285) JAMESPORT 1 & 2 (1150)		10/09/78 10/30/78	11/27/78C 01/04/79C
FISCAL YEAR 1980			
050-00466 (CP) ALLENS CREEK 1 (1150)		05/25/79	03/00/80
NOT SCHEDULED			
050-00488 (CP) PERKINS 1,2,3 (1280)		N/S	N/S
050-00471 (CP) PILGRIM 2 (1180)		01/15/79	N/S
050-00500 (CP) DAVIS BESSE 2 & 3 (0906)		02/19/79	N/S
050-00556 (CP) BLACK FOX 1 & 2 (1150)		02/22/79	N/S
050-00580 (CP) ERIE 1 & 2 (1260)		03/28/79	N/S
050-00549 (CP) GREENE COUNTY (1191)		07/09/79	N/S
050-00568 (CP) NEW ENGLAND 1 & 2 (1194)		09/01/79	N/S
050-00592 (CP) PALO VERDE 4 & 5 (1238)		12/14/79	N/S

STATUS OF APPLICATION

DOCKET NUMBER	FACILITY NAME	SE SUPPL DATE	FES DATE	LWA DATE	PDD DATE
050-00466	ALLENS CREEK 1	COMPLETE	COMPLETE	N/A	03/00/80
050-00556	BLACK FOX 1 & 2	COMPLETE	COMPLETE	COMPLETE	N/S
050-00500	DAVIS BESSE 2 & 3	N/S	COMPLETE	COMPLETE	N/S
050-00580	ERIE 1 & 2	COMPLETE	N/S	N/S	N/S
050-00549	GREENE COUNTY	N/S	COMPLETE	N/A	N/S
050-00568	NEW ENGLAND 1 & 2	COMPLETE	N/S	N/A	N/S
050-00592	PALO VERDE 4 & 5	N/S	N/S	N/A	N/S
050-00488	PERKINS 1,2,3	COMPLETE	COMPLETE	N/A	N/S
050-00471	PILGRIM 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: AUGUST 31, 1979

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
BRAIDWOOD 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	18.4	17.7	----	----	----
ALLENS CREEK 1	12-07-73	12-07-73	03-31-79	11-18-74	----	03-00-80*	63.8	11.3	----	74.7	74.7
PILGRIM 2	12-21-73	12-21-73	01-19-79	----	OPEN	OPEN	60.9	----	----	----	----
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	05-00-80*	45.1	8.0	----	63.5	67.0
PALO VERDE 1,2,3	10-07-74	10-07-74	04-08-76	09-25-75	----	05-25-76	18.0	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	J8-24-77	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	----	----	----	----

1125 052

(CONTINUED ON NEXT PAGE)

CONSTRUCTION PERMIT REVIEW DURATION SUMMARY

APPLICATION	PSAR	ER	SE	SUPP	FES	LWA	CP	DURATION (MONTHS)				
								SAF. REV.	ENV. REV.	LWA REV.	CP REV.	START CONST.
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		08-00-80*	OPEN	OPFN	----	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	31.0(17)	16.0(17)	20.6(10)	36.4(14)	28.4(14)
1975	26.4(7)	14.5(11)	19.9(4)	37.7(6)	31.1(7)
1976	26.9(5)	18.7(6)	21.7(4)	28.4(3)	21.7(4)
1977	22.8(1)	18.4(1)	--	--	--
1978	15.4(1)	9.0(1)	--	--	--
1979	24.8(1)	18.2(1)	--	--	--

1125 053

*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
(FCP) 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 24.0 (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 (1150)	09/06/74C	01/17/77C	28.3
(PCP) PEARY 1 & 2 (1205)	06/25/73C	02/22/77C	43.9
(PCP) WASHINGTON NUCLEAR 3&5 (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 (1260)	03/01/77C	01/25/79C	22.8
(CP) ALLENS CREEK 1 (1150)	12/07/73C	03/31/79C	63.8
(CP) NEW ENGLAND 1 & 2 (1194)	09/09/76C	07/20/79C	34.3
AVERAGE DURATION 45.4 (FY 1979)			

AUGUST 31, 1979

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) VOGTLE 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) PERRY 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)	08/09/74C	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)	06/28/74C	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) MCNTAGUE 1 & 2 (1150)	07/12/74C	02/22/77C	31.3
(CP) TYRONE 1 (1100)	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
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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

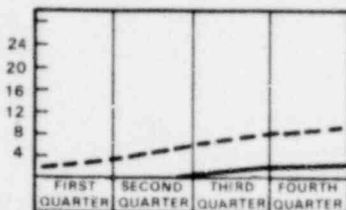
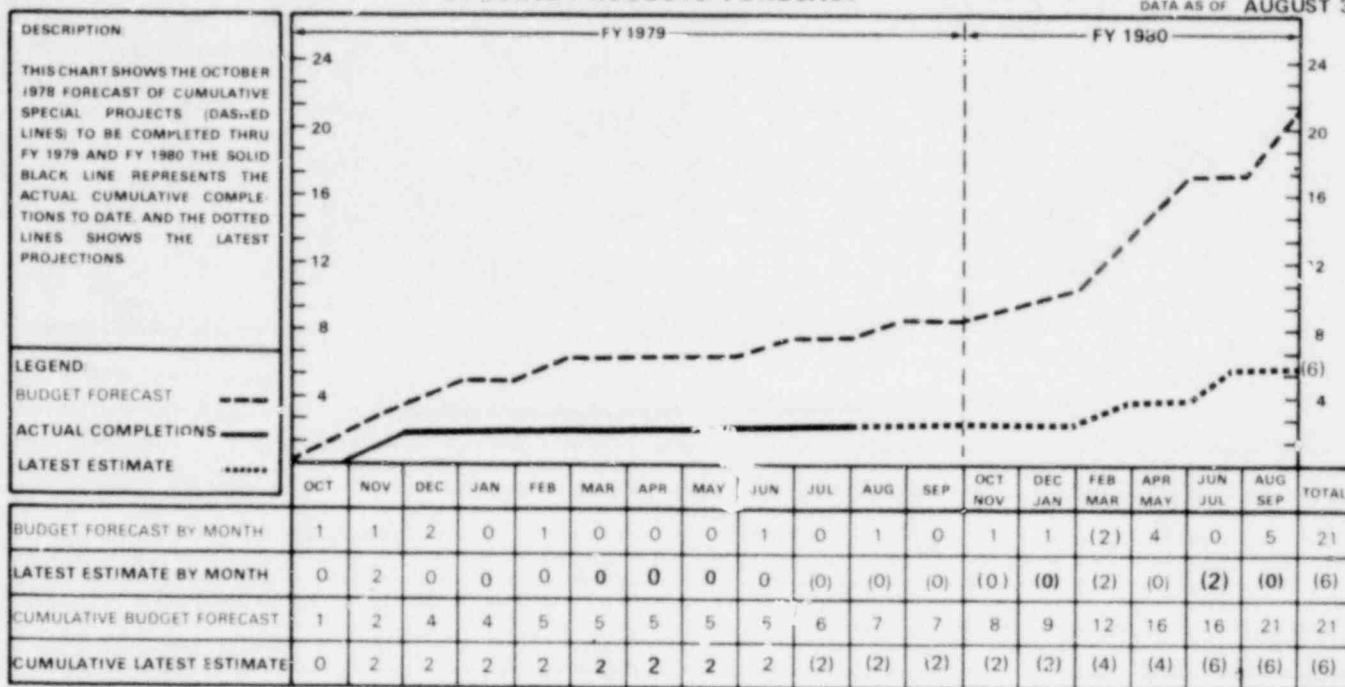
AVERAGE DURATION 29.5 (FY 1979)

AUGUST 31, 1979

1125 055

SPECIAL PROJECTS FORECAST

DATA AS OF AUGUST 31, 1979



NOTES	SUMMARY									
No Schedule currently available Milestone of schedule terminated	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">No. of Appl's</th> <th style="width: 30%;">Date</th> <th style="width: 40%;">% of Forecast</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">End of FY 79</td> <td style="text-align: center;">43%</td> </tr> <tr> <td style="text-align: center;">6</td> <td style="text-align: center;">End of FY 80</td> <td style="text-align: center;">29%</td> </tr> </tbody> </table>	No. of Appl's	Date	% of Forecast	3	End of FY 79	43%	6	End of FY 80	29%
No. of Appl's	Date	% of Forecast								
3	End of FY 79	43%								
6	End of FY 80	29%								

FY 79

<u>DOCKET NUMBER</u>	<u>FACILITY NAME</u>	<u>BASELINE DATE</u>	<u>CURRENT DATE</u>
000-00607	(SPC)*(SP)S 8 G (0000)	10/31/78	11/07/78C
050-00572	(NSS)*RESAR-414 (1300)	12/15/78	11/14/78C

FY 80

000-07448	(SPC)*(SP)FFTF FSAR (0400)	06/01/79	02/00/80
999-90331	(PDS)*(PD)BRAUNSSAR EXT. (0000)	03/00/80	03/00/80
050-00470	(SPC)*(PDA)CESSAR SYSTEM 80 (1295)	09/00/80	06/00/80
000-02463	(ESR)*FULTON SITE (0000)	05/00/80	07/00/80

BEYOND FY 1980

050-00595	(SPC)*GAISSAR (0000)	08/00/79	10/02/80
000-00595	(SPC)*SWESSAR/BSAR-205 (1300)	11/06/78	N/S
050-07510	(ESR)*BLUE HILLS SITE (0918)	12/31/78	N/S
050-00560	(SPC)*(PDA)BOPSSAR/BSAR-205 (0000)	02/09/79	N/S
000-07450	(LES)*SUMMIT SITE (0000)	11/00/79	N/S
050-00584	(BOP)*GIBBSSAR (W) (0000)	01/30/80	N/S
050-00591	(SPC)*(PDA)ESSAR/CESSAR (0000)	02/15/80	N/S
999-90328	(ESR)*TVA ESR 1 (0000)	05/00/80	N/S
000-07559	(ESR)*CARROLL SITE (1120)	05/00/80	N/S
999-90303	(PDS)*(SP)SLSF--MOD* (0000)	08/00/80	N/S
999-90321	(PDS)*(SP)LMFBR VAR. PSID 2* (0000)	08/00/80	N/S
000-07657	(ESR)*STUYVESANT ESR (0000)	08/00/80	N/S
999-90301	(PDS)*(PDA)GIBBSSAR-BSAR 205 (0000)	09/00/80	N/S
000-02591	(SPC)*(PDA)ESSAR/BSAR-205 (0000)	12/00/80	N/S
000-07591	(SPC)*(PDA)ESSAR/RESAR-414 (0000)	12/00/80	N/S

SECTION V - ACRS & PUBLIC HEARINGS

ACRS FORECAST

DATA AS OF: AUGUST 31, 1979

5-2

NUCLEAR REACTOR REGULATION					STANDARDS DEVELOPMENT			
DAY	NAME	STAGE/TYPE	DOCKET NO.	ACTIVITY	DAY	TASK NO.	TYPE	ACTIVITY
OCT					06	RS810-6	00	SC
					28	FP913-5	00	SC
					31	TP502-4	00	FC
NOV	16 ENRICO FERMI 2	OL/BWR	06000341	SC	09	RS810-6	00	FC
DEC	07 ENRICO FERMI 2	OL/BWR	06000341	FC	04	SD803-4	00	SC
					06	RS042-2	00	SC
					08	RS807-6	00	SC
JAN	07 SAN ONOFRE 2 & 3	OL/PWR	06000361	FC	09	RS035-2	00	SC
	16 SUMMER 1	OL/PWR	06000396	SC	11	EM602-6	00	FC
					18	RS807-6	00	FC
FEB	07 SUMMER 1	OL/PWR	06000396	FC	08	SC822-6	00	SC
	08 LASALLE 1 & 2	OL/BWR	06000373	FC	13	RS035-2	00	FC
MAR								

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

TASK # TASK DESCRIPTION

EM502-5 FIRE PROTECTION CRITERIA FOR WATER-COOLED NPP'S

FP913-5 DESIGN OBJECTIVES FOR LWR SPENT FUEL STORAGE FACILITIES AT NPP (R.G. 1.13)

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

RS807-5 REV. 2 TO REG. GUIDE 1.8, PERSONNEL SELECTION AND TRAINING

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

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

TP502-4 STANDARD FORMAT FOR APPLICATIONS OF PART 71 FOR PACKAGING OF TYPE B.

TP502-4 STANDARD FORMAT FOR APPLICATIONS OF PART 71 FOR PACKAGING OF TYPE B.

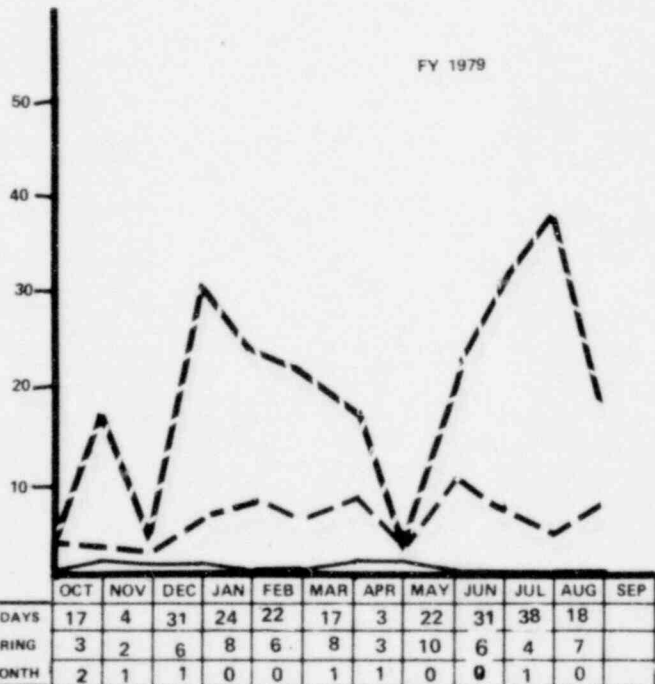
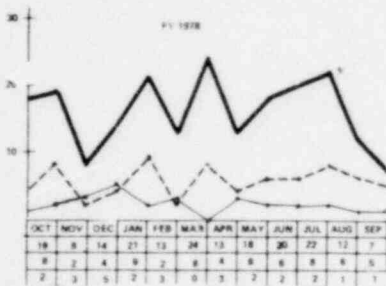
1125 058

ATOMIC SAFETY & LICENSING BOARD PANEL MONTHLY ACTIVITY

DATA AS OF: AUGUST 31, 1979

DECISIONS RENDERED DURING AUGUST

There were no decisions by ASLB during the month of August.



DESCRIPTION

This chart graphs the number of hearing days during the month, the number of applications on which hearings were held during the month, and the number of licensing board decisions rendered during the month. Correlation among the three categories is non-existent. A single chart was chosen for presentation in order to conserve space.

KEY/LEGEND

NUMBER OF HEARING DAYS —————

APPLICATIONS UNDER HEARING - - - - -

DECISIONS RENDERED

1125 059

SUMMARY OF HEARINGS ON PENDING APPLICATIONS

UPDATE
MONTHLY

INCLUDES APPLICATIONS WHICH ARE NOT ACTIVE; BUT
FINAL AGENCY ACTION HAS NOT BEEN RENDERED.

DATA AS OF: AUGUST 31, 1979

APPLICANT	TO BE NOTICED	NOTICED	PETITIONS PENDING	CONTESTED	UNCONTESTED	FINAL AGENCY ACTION NOT TAKEN
CP						
ALLENS CREEK 1		X		X		
BARTON 1 & 2 *				X		
BLACK FOX 1 & 2				X		
BLUE HILL 1 & 2 **					X	
CARROLL CO. SITE (ESR)			X			
CLINCH RIVER *				X		
DAVIS BESSE 2 & 3					X	
DOUGLAS POINT 1 *				X		
ERIE 1 & 2				X		
FULTON 1 & 2 *				X		
GREENE COUNTY ***				X		
GREENWOOD 2 & 3 *				X		
HAVEN 1				X		
MIDLAND 1 & 2 (REMAND)				X		
MONTAGUE 1 & 2				X		
NEW ENGLAND 1 & 2				X		
NEW HAVEN 1 & 2				X		
NORTH COAST **				X		
PALO VERDE 4 & 5				X		
PEBBLE SPRINGS 1 & 2				X		
PERKINS 1-3				X		
PILGRIM 2				X		
SKAGIT 1 & 2				X		
SUNDESERT 1 & 2 *				X		
CHEROKEE 1-3						X
HARTSVILLE 1						X
HOPE CREEK 1 & 2						X
JAMESPORT 1 & 2						X
MARBLE HILL 1 & 2						X
PHIPPS BEND 1 & 2						X
SEABROOK 1 & 2						X
SHEARON HARRIS 1-4						X
ST. LUCIE 2						X
STERLING 1						X
TYRONE 1						X
WOLF CREEK						X
WPPS 4						X
YELLOW CREEK 1 & 2						X
SUB TOTAL	0	1	1	21	2	14
OL						
BRAIDWOOD 1 & 2				X		
BYRON 1 & 2				X		
COMANCHE PEAK 1 & 2			X			
DIABLO CANYON 1 & 2				X		

SUMMARY OF HEARINGS ON PENDING APPLICATIONS

DATA AS OF: AUGUST 31, 1979

UPDATE
MONTHLY

APPLICANT	TO BE NOTICED	NOTICED	PETITIONS PENDING	CONTESTED	UNCONTESTED	FINAL AGENCY ACTION NOT TAKEN
OL (CONTINUED)						
FERMI 2				X		X
MCGUIRE 1 & 2				X		
MIDLAND 1 & 2				X		
SAN ONOFRE 2 & 3				X		
SHOREHAN				X		
SOUTH TEXAS 1 & 2				X		
SUMNER 1				X		
SUSQUEHANNA 1 & 2				X		
WATERFORD 3				X		
WPPS 2				X		
ZIMMER 1				X		
NORTH ANNA 1 & 2						X
PEACH BOTTOM 2 & 3						X
THREE MILE ISLAND 2						X
SUB TOTAL			1	13	0	4
ANTITRUST						
COMANCHE PEAK (OL)				X		
DAVIS-BESSE 1 (UNDER APPEAL)						X
FARLEY 1 & 2 (UNDER APPEAL)						X
MIDLAND 1 & 2 (REMAND TO LIC. BD.)				X		
PERRY 1 & 2 (UNDER APPEAL)						X
SOUTH TEXAS 1 & 2				X		
STANISLAUS 1				X		
ST. LUCIE 1 & 2				X		
SUB TOTAL			0	5	0	3

1125 061

SUMMARY OF HEARINGS ON PENDING APPLICATIONS

DATA AS OF: AUGUST 31, 1979

APPLICANT	TO BE NOTICED	NOTICED	PETITIONS PENDING	CONTESTED	UNCONTESTED	FINAL AGENCY ACTION NOT TAKEN
OTHER (CONTINUED)						
FLOATING NUCLEAR PLANTS 1-8				X		
GINNA (FTL)				X		
LACROSSE (FTL)				X		
MONTICELLO (FTL)				X		
OYSTER CREEK (FTL) (SFS)				X		
FT. CALHOUN 2 (ESR)						X
INDIAN POINT 1						X
ROBINSON 2						X
SUB TOTAL			0	5	0	3
GRAND TOTAL	0	1	2	44	2	24

* PROJECT DELAYED
 ** PROJECT DELAYED SITE STUDY UNDERWAY
 ***INTERVENTION REQUESTED, SUBSEQUENTLY DENIED, WITHDRAWN, OR SETTLED

OPERATING LICENSE
HEARING STATUS

UPDATED BIMONTHLY

DATA AS OF AUGUST 31, 1979

OL HEARING STAGES

	<i>TO BE NOTICED</i>	<i>PETITION PENDING</i>	<i>AWAITING SER SUPPLEMENT</i>	<i>AWAITING FES</i>	<i>SAFETY HEARING</i>	<i>ENVIRONMENTAL HEARING</i>	<i>AWAITING SAFETY INITIAL DECISION</i>	<i>AWAITING ENVIRONMENTAL INITIAL DECISION</i>
BRAIDWOOD 1&2			X	X				
BYRON 1&2			X	X				
CATAWBA 1&2	X							
COPANACHE PEAK 1&2			X	X				
DIABLO CANYON 1&2							X	X
FERMI 2			X	X				
MIDLAND 1&2			X	X				
SAN ONOFRE 2&3			X	X				
SHOREHAM			X	X		X		
SOUTH TEXAS 1&2			X	X				
SUMMER 1			X	X				
SUSQUEHANNA 1&2			X	X				
WATERFORD 3			X	X				
ZIMMER 1			X					
	1		12	10	0	1	1	1

SECTION VI - NUCLEAR MATERIALS

1125 065

NMSS APPLICATIONS FORECAST
FY 1979

APPLICANT	LOCATION	FAC. TYPE	APPL. TYPE	BUDGET ESTIMATE SUBMITTAL DATE	CURRENT ESTIMATE SUBMITTAL DATE	PROJECT MANAGER(S)
NL INDUSTRIES NUCLEAR PACKAGING NUC. ASSURANCE CORP UNIV. OF MISSOURI	WILMINGTON, DE TACOMA, WA	TRP	A	FY79	10-17-78C	R. ODEGAARDEN
		TRP	N	N/S	10-24-78C	R. ODEGAARDEN
		TRP	N	N/S	12-15-78C	C. CHAPPELL
		TRP	N	N/S	01-16-79C	R. ODEGAARDEN
		TRP	N	FY79	FY79	
		TRP	N	FY79	FY79	
		TRP	N	FY79	FY79	
NBS TVA DOE GE DOE - NR #1 DOE - NR #2		TRP	N	FY79	FY79	
		TRP	N	FY79	FY79	
		TRP	N	FY79	FY79	
		TRP	N	FY79	FY79	
		TRP	A	FY79	FY79	
		TRP	A	FY79	FY79	
KERR MCGEE		UF6	A	FY79	FY79	
TEXAS INSTRUMENTS GENERAL ATOMIC BABCOCK & WILCOX UNITED NUCLEAR EXXON NUCLEAR WESTINGHOUSE COMBUSTION ENGINEERING BATTELLE NORTHWEST LABS EXXON NUCLEAR	ATTLEBORO, MA SAN DIEGO LYNCHBURG, VA WOOD RIVER JCT., RI RICHLAND, WA COLUMBIA, SC WINDSOR, CT RICHLAND, WA RICHLAND, WA	UFF	A	N/S	11-07-78C	N. KETZLACH
		UFF	N	N/S	11-30-78C	J. DELANEY
		UFF	R	N/S	12-26-78C	N. KETZLACH
		UFF	A	FY79	02-09-79C	R. STEVENSON
		UFF	R	FY79	03-05-79C	R. STEVENSON
		UFF	A	N/S	03-16-79C	R. STEVENSON
		UFF	A	FY79	05-09-79C	N. KETZLACH
		UFF	R	FY79	06-15-79C	R. STEVENSON
		UFF	R	N/S	06-20-79C	R. STEVENSON
		UFF	A	FY79	FY79	
		UFF	A	FY79	FY79	
		UFF	A	FY79	FY79	
		UFF	A	FY79	FY79	
		UFF	R	FY79	FY79	
UNITED NUCLEAR GENERAL ELECTRIC GENERAL ELECTRIC BABCOCK & WILCOX TEXAS INSTRUMENTS B&W HNF COMBUSTION ENGINEERING NUCLEAR FUEL SERVICES EXXON NUCLEAR NUCLEAR FUEL SERVICES CONFIDENTIAL APPLICANT UNITED NUCLEAR UNITED NUCLEAR UNITED NUCLEAR UNIDENTIFIED UFF #1 UNIDENTIFIED UFF #2 COMBUSTION ENGINEERING TEXAS INSTRUMENTS BABCOCK & WILCOX GENERAL ELECTRIC WESTINGHOUSE-WALTZ MILL	WOOD RIVER JCT., RI WILMINGTON, NC WILMINGTON, NC LYNCHBURG, VA LYNCHBURG, VA LYNCHBURG, VA HEMATITE, MO ERWIN, TN ERWIN, TN WOOD RIVER JCT, RI WOOD RIVER JCT, RI WOOD RIVER JCT, RI WINDSOR, CT ATTLEBORO, MA LYNCHBURG, VA WILMINGTON, NC	UFF	A	FY79	FY79	
		UFF	A	FY79	FY79	
		UFF	A	FY79	FY79	
		UFF	A	FY79	FY79	
		UFF	R	FY79	FY79	
		UFF	A	N/S	FY79	
		UFF	A	N/S	FY79	
		UFF	A	N/S	FY79	
		UFF	R	N/S	FY79	
		UFF	N	FY79	FY80	
		UFF	A	FY80	FY80	
		UFF	A	FY80	FY80	
		UFF	A	FY80	FY80	
		UFF	A	FY79	FY80	
		UFF	A	FY79	FY80	
		UFF	A	FY80	FY80	
		UFF	A	FY80	FY80	
UFF	A	FY80	FY80			
UFF	R	FY80	FY80			
FED.-AMER. PARTNERS WYOMING MINERALS PHILLIPS URANIUM CORP.	RIVERTON, WY KEOTA, WY CROWN POINT, NM	UM	A	N/S	11-20-78C	P. GARCIA
		UM	N	N/S	12-08-78C	R. COOPERSTEIN
		UM	N	N/S	12-20-78C	S. MANGER

CONTINUED ON NEXT PAGE

1125 067

NMSS APPLICATIONS FORECAST
FY 1979/80

APPLICANT	LOCATION	FAC. TYPE	APPL. TYPE	BUDGET ESTIMATE SUBMITTAL DATE	CURRENT ESTIMATE SUBMITTAL DATE	PROJECT MANAGER(S)
MINERAL EXPLORATION CO.	YAVAPA CO., CO	UM	N	N/S	12-20-78C	S. MANGER
COTTER CORP.	FREMONT CO., CO	UM	A	N/S	01-30-79C	R. SCARANO
COTTER CORP.	SCHWARTZWALDER, CO	UM	N	N/S	01-30-79C	UNASSIGNED
UNION CARBIDE	URAVAN, CO	UM	R	N/S	02-02-79C	J. LINEHAN
TVA	EDGEMONT, SD	UM	A	FY79	03-01-79C	E. TRAGER
GATES & FOX	NATURITA, CO	UM	N	N/S	03-01-79C	R. COOPERSTEIN
PIONEER URAVAN, INC.	SAN MIGUEL CO., CO	UM	N	N/S	06-08-79C	K. HAMILL
ADOBE OIL & GAS		UM	N	FY79	FY79	
UNION CARBIDE	CHORD	UM	N	FY79	FY79	
URANGESSELLSCHAFT		UM	N	FY79	FY79	
PETROTOMICS		UM	A	FY79	FY79	
UNITED NUCLEAR		UM	A	FY79	FY79	
EXXON MINERALS		UM	A	FY79	FY79	
EXXON MINERALS		UM	A	N/S	FY79	
ATLAS MINERALS		UM	A	N/S	FY79	
UNION CARBIDE		UM	A	N/S	FY79	
TVA	EDGEMONT	UM	N	FY79	FY80	
STANDARD METALS	ALASKA	UM	N	FY79	FY80	
ROCKY MTN. ENERGY CO.		UM	N	FY80	FY80	
ROCKY MTN. ENERGY CO.		UM	N	FY80	FY80	
HOMESTAKE MINING	UTAH	UM	N	FY80	FY80	
HOMESTAKE MINING	UTAH	UM	N	FY80	FY80	
PATHFINDER MINES	WYOMING	UM	N	FY80	FY80	
COTTER CORP.	WYOMING	UM	N	FY80	FY80	
CLEVELAND CLIFFS	WYOMING	UM	N	FY80	FY80	
ANACONDA	WYOMING	UM	N	FY80	FY80	
CONOCO	WYOMING	UM	N	FY80	FY80	
EXXON MINERALS		UM	A	FY80	FY80	
PETROTOMICS		UM	A	FY80	FY80	
UNIDENTIFIED UM #1		UM	A	FY80	FY80	
UNIDENTIFIED UM #2		UM	A	FY80	FY80	
UNIDENTIFIED UM #3		UM	A	FY80	FY80	
UNIDENTIFIED UM #4		UM	A	FY80	FY80	
UNIDENTIFIED UM #5		UM	A	FY80	FY80	
ENERGY FUELS NUCLEAR		UOP	N	N/S	FY79	
KERR-MCGEE		UOP	N	N/S	FY79	
COTTER CORP. (R&D)		UOP	N	N/S	FY79	
PLATEAU RESOURCES		UOP	A	N/S	FY79	
PIONEER NUCLEAR		UOP	N	FY80	FY80	
5M, INC.		UOP	N	FY80	FY80	
GULF R&D		UOP	N	FY80	FY80	
SOUTHWEST NUCLEAR CO.	LYONS, KS	LLW	N	N/S	09-13-78C	B. MINGST

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
 UFS - UFG 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: JULY 15, 1979

APPLICANT	LOCATION	FACILITY TYPE	APPL TYPE	APPL REC'D	CURRENT CASE COMPLETION DATE
URANIUM MILLING					
NEW APPL					
PLATEAU RESOURCES LTD.	SHOOTERING CANYON UT	U-MILL	NA	05-78	N/S
ENERGY FUELS NUCLEAR	WHIYE MESA, UTAH	ORE BUYING	NA	03-78	N/S
ENERGY FUELS NUCLEAR	HANKSVILLE, UTAH	ORE BUYING	NA	03-78	N/S
ENERGY FUELS NUCLEAR	WHITE MESA, UTAH	U-MILL	NA	02-78	06-18-79
PLATEAU RESOURCES	BLANDING, UTAH	ORE BUYING	NA	04-78	N/S
GULF MINERAL RES. CO.	MT. TAYLOR, NM	U-MILL	NA	09-78	N/S
BOKUM RESOURCES INC.	MARQUEZ, NM	U-MILL	NA	08-78	N/S
PHILLIPS URANIUM CORP.	NOSE ROCK, NM	U-MILL	NA	12-78	N/S
MINERAL EXPLORATION CO	YAVAPA CO. AZ	U-MILL	NA	12-78	N/S
GATES & FOX CORP. URAN. RECOVERY PROCESS	NATURITA, CO	U-MILL	NA	03-79	N/S
COTTER CORP SCHWARTZ- WALDER MINE ORE SORTER	JEFFERSON CO., CO	U MILL	NA	01-79	N/S
PIONEER URAVAN, INC.	SAN MIGUEL CO., CO	U MILL	NA	06-79	N/S
RENEWALS & MAJOR MOD					
FEDERAL-AMER. PTRNS.	RIVERTON, WY.	U-MILL	RN		
EXXON MINERALS HIGHLAND	CONVERSE CO., WY	U-MILL	RN	12-75	N/S
UNION CARBIDE	GAS HILLS, WY	U-MILL	RN	07-78	N/S
WESTERN NUCLEAR	JEFFREY CITY, WY	U-MILL	RN	03-76	N/S
UNION CARBIDE	MONTROSE CO., CO	U-MILL	RN	04-73	N/S
			RN	02-79	N/S
AMENDMENTS					
BEAR CREEK URANIUM	CONVERSE CO., WY	U-MILL	AM	09-78	07-13-79
AS MINERALS	MOAB, UTAH	U-MILL	AM	09-73	N/S
TENNESSEE VALLEY AUTH.	EDGEMONT, SD	U-MILL	AM	01-79	N/S
COTTER CORP. EVAL. OF EXISTING TAILINGS IMPOUNDMENT	FREMONT CO., CO	U-MILL	AM	01-79	N/S
FUEL STORAGE					
NEW APPL					
LONG ISLAND LIGHTING CO	SUFFOLK COUNTY, NY	FUEL STORAGE	NA	09-78	07-18-79
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	06-19-79
GENERAL ELECTRIC	MORRIS, IL	CAP. INCREASE	AM	05-77	N/S
GENERAL ELECTRIC DECOMMISSIONING PLAN	MORRIS, IL	FUEL STORAGE	AM	11-78	06-29-79

1125 069

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 COTTER CORP ROCKY MTN. ENERGY PLATEAU RESOURCES LTD	WILLOW CREEK, WY NATRONA, WY SHOOTERING CANYON, UT	IN-SITU IN-SITU R&D	NA NA NA	03-78 02-79 08-78	N/S 12-05-80 N/S
RENEWALS WYOMING MINERALS	LAKWOOD, CO	IN-SITU	RN	06-79	N/S
URANIUM FUEL FAB					
NEW APPL EXXON NUCLEAR CO.	RICHLAND, WA	UFFP	NA	03-79	06-29-79
RENEWALS & MAJOR MOD BABCOCK & WILCOX LYNCHBURG RES. CENTER EXXON NUCLEAR CO. BATTELLE NORTHWEST LABS	LYNCHBURG, VA RICHLAND, WA RICHLAND, WA	UFFP UFFP UFFP	RN RN RN	12-78 06-79 06-79	11-23-79 05-29-80 04-10-80
AMENDMENTS UNITED NUCLEAR COMBUSTION ENGINEERING UNITED NUCLEAR UNITED NUCLEAR COMBUSTION ENGINEERING COMBUSTION ENGINEERING GENERAL ATOMIC CO. COMBUSTION ENGINEERING	UNCASVILLE, CT HEMATITE, MO UNCASVILLE, CT WOOD RIVER JCT. RI WINDSOR, CT HEMATITE, MO SAN DIEGO, CA WINDSOR, CT	UFFP UFFP UFFP UFFP UFFP UFFP UFFP UFFP	AM AM AM AM AM AM AM AM	09-78 09-78 04-78 02-79 09-78 04-78 11-78 05-79	06-29-79 06-15-79 08-01-79 06-27-79 06-29-79 06-15-79 11-30-79 10-19-79
PLUTONIUM FUEL FAB					
RENEWALS & MAJOR MOD BATTELLE COLUMBUS LAB. GENERAL ELECTRIC WESTINGHOUSE	COLUMBUS, OH VALLECITOS, CA CHESWICK, PA	FFP R&D PFDL	RN RN RN	01-75 08-71 12-74	08-17-79 N/S 07-16-79
AMENDMENTS WESTINGHOUSE GENERAL ELECTRIC EXXON NUCLEAR ATOMICS INT'S. BATTELLE MEM. INST. WESTINGHOUSE	CHESWICK, PA VALLECITOS, CA RICHLAND, WA CANOGA PARK, CA COLUMBUS, OH COLUMBIA, SC	PU R&D PU R&D PU R&D PU R&D PU R&D PU FFP	AM AM AM AM AM AM	 03-79	06-30-79 N/S N/S N/S N/S 09-17-79
NON-CASE & OTHER					
LWR SPENT FUEL (GEIS) GEIS ON URANIUM MILLING NUCLEAR FUEL SERVICE	N/A N/A WEST VALLEY, NY	N/A N/A N/A		 08-75	07-31-79 04-00-80 08-01-79

IN-HOUSE MAJOR CASE REVIEW SCHEDULING
 UPDATED BIMONTHLY

APPLICANT	LOCATION	FACILITY TYPE	APPL TYPE	APPL REC'D	CURRENT CASE COMPLETION DATE
TRANSPORTATION					
DOE, S-6213	WASHINGTON, DC	-	NA	07-78	10-31-79
TRANSNUCLEAR TN-12	WHITE PLAINS, NY	-	NA	03-78	11-30-79
DOE S 2 W/ S 2 W A	WASHINGTON, DC	-	NA	04-76	11-30-79
GENERAL ATOMIC	SAN DIEGO, CA	-	NA	08-78	08-31-79
DOE, ANL-402-SPM	CHICAGO, IL	-	NA	12-77	09-15-79
DOE, ORNL LOOP	OAK RIDGE, IN	-	NA	07-78	05-31-79
DOE, ANL-390-SPM	CHICAGO, IL	-	NA	12-77	08-31-79
NL INDUSTRIES	WILMINGTON, DE	-	NA	10-78	08-31-77
NUCLEAR PACKAGING T-3 SPENT FUEL CASK	TACOMA, WA	-	NA	10-78	12-31-79
NUCLEAR ASSURANCE CORP. NAC-3K SPENT FUEL CASK	ATLANTA, GA	-	NA	12-78	12-31-79
LOW LEVEL WASTE					
NUCLEAR ENGINEERING	SHEFFIELD, IL	WASTE BURIAL	RN/AM	08-68	N/S
NUCLEAR ENGINEERING	HANFORD, WA	WASTE BURIAL	RN	02-78	07-21-80
SOUTHWEST NUCLEAR, INC.	LYONS, KS	WASTE BURIAL	NA	09-78	10-00-80
SAFEGUARDS					
POLICY PAPER ON S.G. LOW EN. U		N/A			09-04-79
SAFEGUARDS - GUARD TRAINING PLANS		N/A		02-79	07-31-79
CONTINGENCY PLAN REVIEWS		N/A			07-31-79

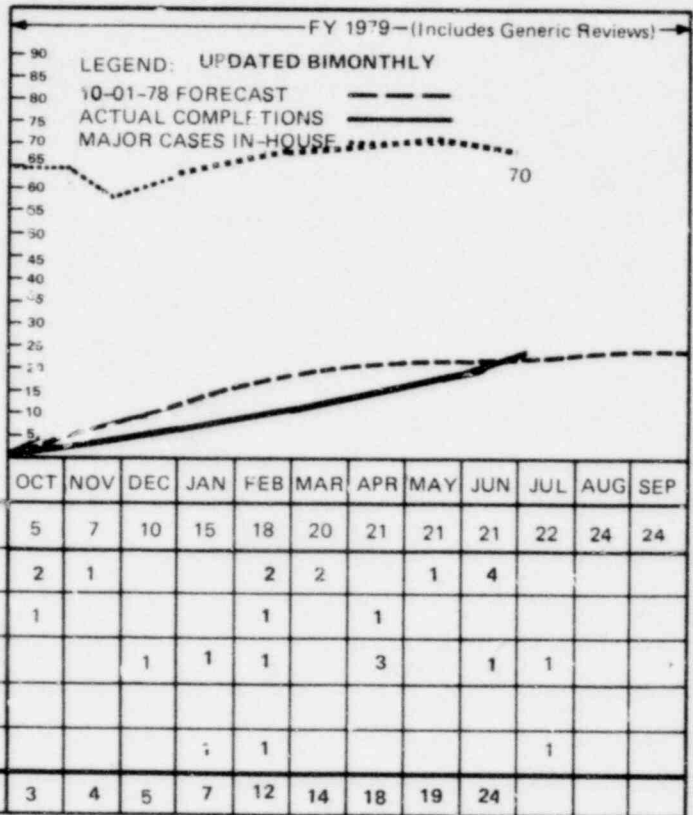
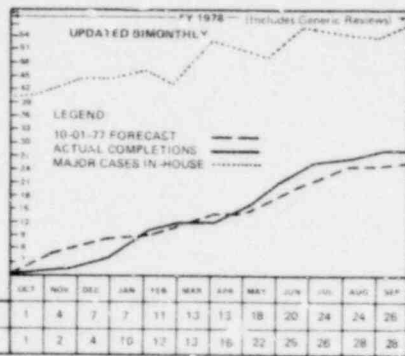
U-MILLS
 New Applications.....12
 Renewals..... 5
 Amendments..... 4
 FUEL STORAGE
 New Applications..... 2
 Amendments..... 3
 IN-SITU
 New Applications..... 3
 Renewals..... 1
 URANIUM FUEL FAB
 New Applications..... 1
 Renewals..... 3
 Amendments..... 8
 PLUTONIUM FUEL FAB
 Renewals..... 3
 Amendments..... 6
 NON-CASE..... 3
 TRANSPORTATION.....10
 LOWER LEVEL WASTE..... 3
 SAFEGUARDS..... 3
 TOTAL.....70

1125 071

DIVISION OF FUEL CYCLE & MATERIAL SAFETY

MAJOR CASEWORK: COMPLETIONS

DATA AS OF: JULY 15, 1979



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.

COMPLETIONS

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

MAJOR FUEL CYCLE CASES COMPLETED

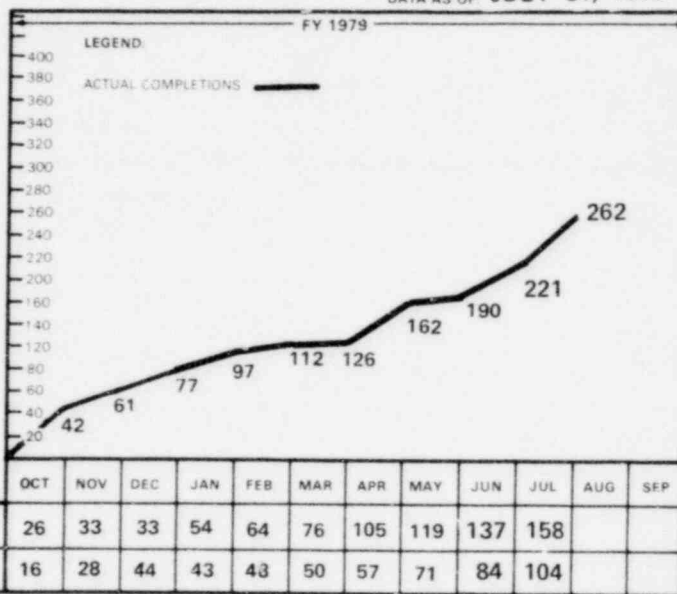
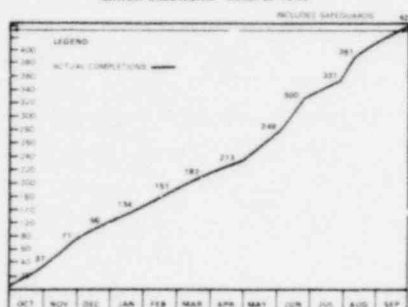
APPLICANT	LOCATION	FACILITY TYPE	COMPLETED	APPL TYPE
PUBLIC SERVICE ELECTRIC & GAS			10-04-78	L
EXXON NUCLEAR	OAK RIDGE, TN	NFRC	10-09-78	L
BABCOCK & WILCOX	APPOLLU, PA	UFFP	10-23-78	RL
WY MIN IRIGARY SOL MINE	JOHNSON, WY	IN-SITU	11-17-78	L
UNITED NUCLEAR	WOOD RIVER	SCRAP RECON	12-20-78	AL
STONE & WEBSTER SWECO - 7601	INDEP SPENT FUEL	N/A	01-24-79	NC
EXXON HIGHLAND	CONVERSE, WY	IN-SITU	01-25-79	AL
EXXON NUCLEAR	RICHLAND, WA	FFP	02-05-79	AL
BABCOCK & MAJOR MOD	PARKS TOWNSHIP, PA	PU & UFFP	02-02-79	RL
PRICE-ANDERSON COMP. ANALYSIS	N/A	N/A	02-16-79	NC
COTTER CORP.		U-MILL	02-16-79	L
MINERALS EXPLORATION	SWEETWATER, WY	U-MILL	02-16-79	L
ENERGY RESOURCES	SAN JUAN, UT	IN-SITU	03-26-79	L
HOMESTAKE MINING CO.	SARGENTS, CO	U-MILL	03-28-79	L
ATLAS MINERALS	MOAB, UT	U-MILL	04-23-79	RL
BABCOCK & WILCOX LYNCHBURG RES. CTR.	LYNCHBURG, VA	UFF	04-23-79	AL
TEXAS INSTRUMENT	ATTLEBORO, MA	UFF	04-23-79	AL
GENERAL ELECTRIC WILMINGTON	WILMINGTON, NC	UFF	04-23-79	AL
UNITED NUCLEAR MORTON RANCH	CONVERSE, WY	U-MILL	05-09-79	L
WYOMING MINERALS	WELD CO., CO	IN-SITU	06-08-79	NL
CLEVELAND CLIFFS	CAMPBELL CO., WY	IN-SITU	06-29-79	NL
BRUSH WELLMAN	DELTA, UT	IN-SITU	06-06-79	NL
GULF RESEARCH	SWEETWATER CO, WY	IN-SITU	06-06-79	NL
LUCKY MURANUM CORP.	GAS HILLS, WY	U MILL	06-25-79	AL
UNIV. OF MISSOURI	COLUMBIA, MO	TRANS.	06-12-79	NL
FEDERAL AMERICAN PART.	RIVERTON, WY	U MILL	07-02-79	AL
ALLIED GENERAL NUCLEAR SVCS.	BARNWELL, SC	FUEL STOR.	07-06-79	TL

DIVISION OF FUEL CYCLE & MATERIAL SAFETY

MINOR CASEWORK: COMPLETIONS

DATA AS OF JULY 31, 1979

MINOR CASEWORK: COMPLETIONS



Month	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
COMPLETED SAFEGUARDS (CUMULATIVE)	22	44	52	71	87	103	114	124	149	166	184	191

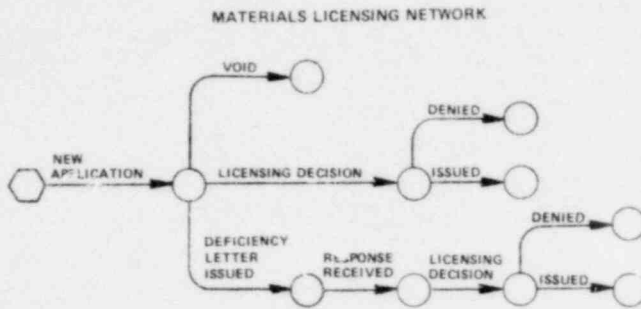
DESCRIPTION:

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

Month	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
COMPLETED SAFEGUARDS (CUMULATIVE)	16	28	44	43	48	50	57	71	84	104		
COMPLETED SAFEGUARDS (CUMULATIVE)	26	33	33	54	64	76	105	119	137	158		

1125 073

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 (PENDING DEFICIENCY LETTERS NOT INCLUDED)

DATA AS OF: AUGUST 31, 1979

APPLICATIONS IN HOUSE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MORE THAN 90 DAYS	260	257	246	176	163	186	156	179	202	195	214	
60 TO 90 DAYS	97	73	58	62	84	66	86	96	99	99	75	
30 TO 59 DAYS	153	115	118	114	122	136	174	163	152	148	149	
LESS THAN 30 DAYS	492	434	497	539	590	595	488	517	473	466	445	
TOTAL	1002	879	919	921	959	983	904	955	926	908	883	

APPLICATIONS > 90 DAYS

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
NEW APPLICATIONS	1	3	9	1	0	3	2	6	11	1	5	
AMENDMENTS	18	18	23	6	3	7	3	4	4	3	6	
RENEWALS	241	236	214	169	160	176	151	169	187	191	203	
TOTAL	260	257	246	176	163	186	156	179	202	195	214	

NMSS - MATERIALS LICENSING DATA

APPLICATIONS RECEIVED

DATA AS OF: AUGUST 31, 1979

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
NEW APPLICATIONS	62	60	61	74	68	83	82	91	69	53	79	
AMENDMENTS	275	243	234	240	222	268	267	261	257	251	256	
RENEWALS	129	101	129	145	132	161	140	116	111	89	85	
RESPONSES TO DEFICIENCY REQUESTS	169	164	161	175	179	194	200	175	183	162	157	
TOTAL	635	568	585	634	601	706	689	643	620	555	577	

LICENSING ACTIONS COMPLETED

(APPLICATIONS LICENSED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
NEW APPLICATIONS	63	81	56	80	61	93	98	72	74	66	71	
AMENDMENTS	216	270	203	222	217	266	280	223	270	202	242	
RENEWALS	126	144	115	109	135	155	172	115	126	106	107	
TOTAL	405	495	374	411	413	514	550	410	470	374	420	
DEFICIENCY REQUESTS	212	186	193	213	163	191	216	171	179	165	171	
VOIDS	5	10	22	8	23	1	2	11	0	34	11	

MONTHLY SUMMARY

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BEGINNING OF MONTH INVENTORY	989	1002	879	919	921	959	983	904	955	926	908	
INPUT	635	568	585	634	601	706	689	643	620	555	577	
OUTPUT	622	691	545	632	563	682	768	592	649	573	602	
END OF MONTH INVENTORY	1002	879	919	921	959	983	904	955	926	908	933	

1125 075

NMSS - MATERIALS LICENSING DATA

TOTAL TURN AROUND TIME

DATA AS OF: AUGUST 31, 1979

(EXCLUDES VOIDS)

DESCRIPTION:

TOTAL IN-HOUSE TIME FROM RECEIPT OF APPLICATION TO COMPLETION OF LICENSING ACTION DOES NOT INCLUDE APPLICANT TIME RESPONDING TO DEFICIENCY LETTERS.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
> 90 DAYS	93	115	89	94	96	83	124	101	89	74	72	
60 to 89 DAYS	29	50	36	49	43	64	53	44	45	33	39	
30 to 59 DAYS	63	76	64	87	80	120	100	63	96	102	97	
< 30 DAYS	220	254	185	181	194	247	273	222	240	165	212	
TOTAL COMPLETED	405	495	374	411	413	514	550	430	470	374	420	
COMPOSITE AVERAGE TIME	64	64	65	73	69	59	67	59	56	65	52	

NEW APPLICATIONS TURN AROUND TIME

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
> 90 DAYS	15	14	12	18	8	12	16	10	6	8	8	
60 to 89 DAYS	1	10	6	15	5	18	11	6	8	2	9	
30 to 59 DAYS	15	20	14	20	18	25	28	10	23	31	19	
< 30 DAYS	32	37	24	27	30	38	43	46	37	25	35	
TOTAL	63	81	56	80	61	93	98	72	74	66	71	
AVERAGE TURN AROUND TIME	57	57	56	61	47	51	56	40	41	43	42	

AMENDMENTS TURN AROUND TIME

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
> 90 DAYS	19	22	17	18	13	24	27	22	22	15	16	
60 to 89 DAYS	12	23	21	23	9	18	23	17	19	15	17	
30 to 59 DAYS	30	44	33	56	48	50	45	32	50	49	53	
< 30 DAYS	155	181	132	125	147	174	185	152	179	123	156	
TOTAL	216	270	203	222	217	266	280	223	270	202	242	
AVERAGE TURN AROUND TIME	36	38	38	42	35	39	40	39	34	38	33	

NMSS - MATERIALS LICENSING DATA

TURN AROUND TIME RENEWALS

DATA AS OF: AUGUST 31, 1979

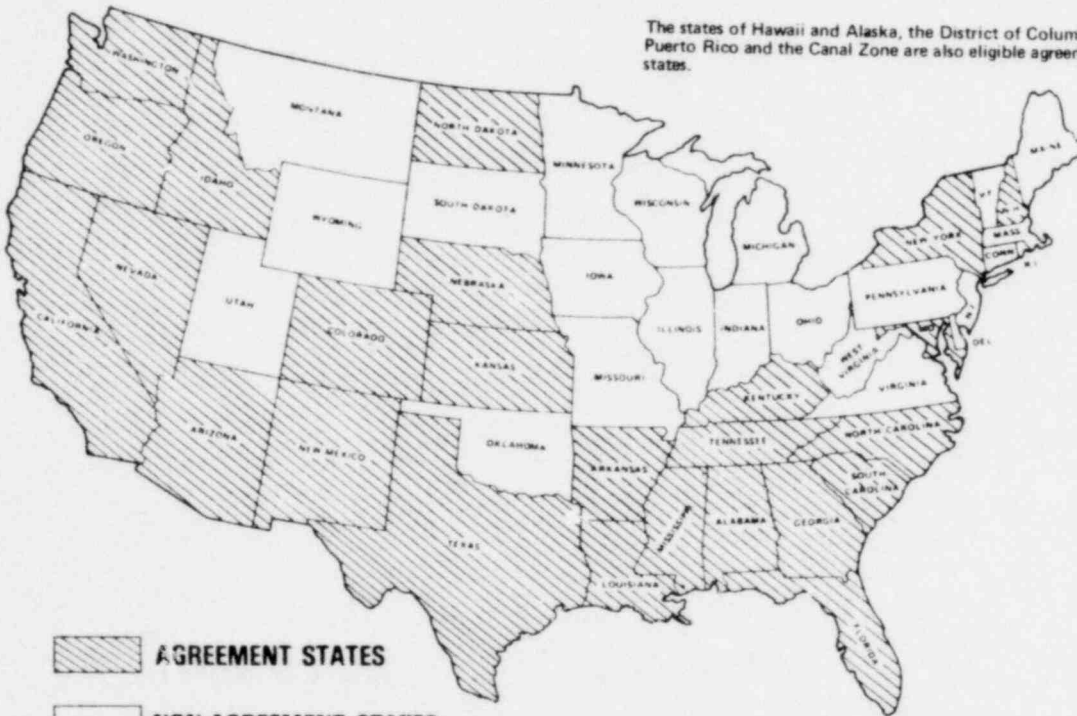
DESCRIPTION:



TOTAL IN-HOUSE TIME FROM RECEIPT OF APPLICATION TO COMPLETION OF LICENSING ACTION DOES NOT INCLUDE APPLICANT TIME RESPONDING TO DEFICIENCY LETTERS.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
> 90 DAYS	59	79	60	58	75	47	81	49	61	51	48	
60 to 89 DAYS	16	11	9	11	29	28	19	21	18	16	13	
30 to 59 DAYS	18	12	17	11	14	45	27	21	23	22	25	
< 30 DAYS	13	36	29	29	17	35	45	24	24	17	21	
TOTAL	126	144	115	109	135	155	172	115	126	106	107	
AVERAGE TURN AROUND TIME	113	117	118	145	134	98	115	109	111	129	102	

AGREEMENT STATES

The states of Hawaii and Alaska, the District of Columbia, Puerto Rico and the Canal Zone are also eligible agreement states.



 AGREEMENT STATES
 NON-AGREEMENT STATES

NRC AGREEMENT STATES

ALABAMA
 ARIZONA
 ARKANSAS
 CALIFORNIA
 COLORADO

FLORIDA
 GEORGIA
 IDAHO
 KANSAS
 KENTUCKY

LOUISIANA
 MARYLAND
 MISSISSIPPI
 NEBRASKA
 NEVADA

NEW HAMPSHIRE
 NEW MEXICO
 NEW YORK
 NORTH CAROLINA
 NORTH DAKOTA

OREGON
 SOUTH CAROLINA
 TENNESSEE
 TEXAS
 WASHINGTON

1125 077

MAJOR LICENSED FUEL CYCLE FACILITIES

UPDATE BIMONTHLY

(LICENSED BY NRC)

DATA AS OF: JULY 15, 1979

APPLICANT	LOCATION	DOCKET NUMBER	LICENSE NUMBER	EXPIRATION DATE
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URANIUM HEXAFLUORIDE (UF₆) 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
COMBUSTION ENGINEERING, INC.	HEMATITE, MO	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-928	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
BATTELLE MEMORIAL INSTITUTE	WEST JEFFERSON, OH	70-8	SNM-7	02-28-74**
BATTELLE P. N. LABORATORIES	RICHLAND, WA	70-984	SNM-942	06-30-79
EXXON NUCLEAR COMPANY, INC.	RICHLAND, WA	70-1257	SNM-1227	07-31-79
GENERAL ELECTRIC COMPANY	VALLECITOS, CA	70-754	SNM-960	07-31-73**
KERR-MCGEE CORPORATION	CRESENT, OK	70-1193	SNM-1174 (3)	04-30-82
WESTINGHOUSE ELECTRIC CORP.	CHESWICK, 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)	04-19-66**

WASTE BURIAL FACILITIES

NUCLEAR ENGINEERING	SHEFFIELD, IL	27-39		08-00-68**
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) POL ISSUED IN 1966, CURRENTLY SHUTDOWN.
- (6) LICENSED ALSO FOR SHIPPING AND RECEIVING 70-959 (SNM-984)

6-14

1125 078

* CLOSE DOWN PROCEDURES.
** TIMELY RENEWAL

UPDATE BIMONTHLY

MAJOR LICENSED FUEL CYCLE FACILITIES

(LICENSED BY NRC)

NRC LICENSED URANIUM MILLS AND OTHER FACILITIES

DATA AS OF: JULY 15, 1979

NAME	LOCATION	DOCKET NUMBER	LICENSE NUMBER	EXPIRATION DATE
U-MILLS				
ATLAS MINERALS	MOAB, UT	40-3453	SUA-917	04-30-72 (TIMELY RENEWAL)
BEAR CREEK URANIUM COMPANY	DENVER, CO	40-8452	SUA-1310	07-31-82
EXXON COMPANY	CONVERSE CO., WY	40-8064	SUA-1064	08-31-81
FEDERAL-AMERICAN PARTNERS	RIVERTON, WY	40-4492	SUA-667	01-31-76
LUCKY MC URANIUM CORP.	GAS HILLS, WY	40-2259	SUA-672	01-31-83
PETROTOMICS COMPANY	SHIRLEY BASIN, WY	40-6659	SUA-551	04-30-81
RIO ALGOM 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		40-8584		02-16-84
HOMESTAKE MINING CO.	SARGENTS, CO	M5-(N/C	PROJ.)	03-28-84
UNITED NUCLEAR MORTON RANCH	CONVERSE, WY	40-8602	SUA-1356	05-09-84
OTHERS WHICH COME UNDER U-MILLS				
CLEVELAND CLIFFS IRON COMPANY	POWDER RIVER BASIN, WY	40-8200	SUA-1192	05-31-79
COTTER CORPORATION	GOLDEN, CO	40-8511	SUA-1273	08-31-81
EXXON COMPANY	CONVERSE CO., WY	40-8102	SUA-1139	07-31-78
HIGHLAND URANIUM MILL				(TIMELY RENEWAL)
HOLMES AND NARVER, INC.	ANAHEIM, CA	40-8550	SUA-1307	07-31-82
HOMESTAKE MINING COMPANY	A SAL MINE, SAN JUAN CO., UT	40-8434	SUA-1249	06-30-79
LUCKY MC URANIUM CORP.	SHIRLEY BASIN, WY	40-6622	SUA-442	09-30-82
MINERALS EXPLORATION CO.	SWEETWATER CO., WY	40-8348	SUA-1223	01-31-80
PLATEAU RESOURCES LTD.	GRAND JUNCTION, WY	40-7869	SUA-1013	09-30-78
ROCKY MOUNTAIN ENERGY	CONVERSE CO., WY	40-8380	SUA-1228	02-29-80
TENNESSEE VALLEY AUTHORITY	EDGEMONT MILL, SD	40-1341	SUA-816	02-29-76 (TIMELY RENEWAL)
WYOMING MINERAL CORP.	JOHNSON CO., WY	40-8304	SUA-1204	06-30-79
WYOMING MINERAL CORP.	LAKESWOOD, CO	40-8585	SUA-1315	09-30-82
WOLD NUCLEAR		40-8636		04-11-83
NUCLEAR DYNAMICS		40-8663		04-14-83
KERR MCGEE		40-8586		04-14-83
OGLE PETROLEUM		40-8693		08-31-83
J&P CORPORATION		40-8684		08-30-83
ROCKY MOUNTAIN	CAMPBELL CO., WY	40-8697		
WYOMING MIN IRIGARY		40-8502		11-17-83
COTTER CORP.		18103D		02-16-84
ENERGY RESOURCES	SAN JUAN, UT	40-8707	SUA-1351	03-26-84
CLEVELAND CLIFFS	CAMPBELL CO., WY	40-8714		06-29-84
BRUSH WELLMAN	DELTA, UT	40-8722		06-06-84
GULF RESEARCH	SWEETWATER CO., WY	40-8712		06-06-84

1125 079

SECTION VII - STANDARDS AND REGULATIONS

PROGRAM OVERVIEW TASK WORKLOAD STATUS

APRIL 1, 1979 TO JUNE 30, 1979

	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	0	0	5	1
FUEL PROCESS SYSTEM STANDARDS	17	1	2	0	15	2
MATERIALS PROTECTION STANDARDS	8	0	0	0	8	0
OCCUPATIONAL HEALTH STANDARDS	23	0	2	0	21	2
PROGRAM SUPPORT	1	0	0	0	1	0
REACTOR SYSTEMS STANDARDS	17	1	3	1	15	0
SITE DESIGNATION STANDARDS	5	0	0	0	5	0
SAFEGUARDS	2	3	1	0	4	1
SITE SAFETY STANDARDS	8	0	1	0	7	0
STRUCTURES & COMPONENTS STANDARDS	22	5	4	0	23	0
TRANSPORTATION & PRODUCT STANDARDS	19	3	4	0	18	2
RADIOLOGICAL HEALTH	2	1	0	0	3	1
TOTALS	135	14	17	i	129	9

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

REGULATORY GUIDES

OCTOBER

FOR
REVISED COMMENT

RG 1.128/RS 604-5 REV. 1	INSTALLATION DESIGN AND INSTALLATION OF LARGE LEAD STORAGE BATTERIES FOR NUCLEAR POWER PLANTS	X	
RG 6.8 /TP 702-4	IDENTIFICATION PLAQUE FOR IRRETRIEVABLE WELL-LOGGING SOURCES		X
RG 1.130/SC 602-4 REV. 1	SERVICE LIMITS AND LOADING COMBINATIONS FOR CLASS 1 PLATE-AND-SHELL-TYPE COMPONENT SUPPORTS	X	

NOVEMBER

RG 1.125/SS 701-4 REV. 1	PHYSICAL MODELS FOR DESIGN AND OPERATION OF HYDRAULIC STRUCTURES AND SYSTEMS FOR NUCLEAR POWER PLANTS	X	
RG 1.136/SC 703-4 REV. 1	MATERIAL FOR CONCRETE CONTAINMENTS (ARTICLE CC-2000) OF THE "CODE" FOR CONCRETE REACTOR VESSELS AND CONTAINMENTS	X	
RG 5.58 /SG 801-4	CONSIDERATIONS FOR ESTABLISHING TRACEABILITY OF SPECIAL NUCLEAR MATERIAL ACCOUNTING MEASUREMENTS		X
RG 1.84 /SC 803-4 REV. 14	DESIGN AND FABRICATION CODE CASE ACCEPTABILITY ASME SECTION III-DIVISION 1	X	
RG 1.85 /SC 804-4 REV. 14	MATERIALS CODE CASE ACCEPTABILITY ASME SECTION III-DIVISION 1	X	
RG 8.24 /OH 709-4	HEALTH PHYSICS SURVEYS DURING ENRICHED URANIUM 235 PROCESSING AND FUEL FABRICATION		X
RG 1.9 /RS 710-5 REV. 1	SELECTION, DESIGN & QUALIFICATION OF DIESEL-GENERATOR UNITS USED AS ONSITE ELECTRIC POWER SYSTEMS AT NUCLEAR POWER PLANTS		X
RG 1.70 /SC 813-4 REV. 3	STANDARD FORMAT AND CONTENT OF SAFETY ANALYSIS REPORTS FOR NUCLEAR POWER PLANTS	X	
RG 1.72 /SC 532-4 REV. 2	SPRAY POND PIPING MADE FROM FIBERGLASS-REINFORCED THERMOSETTING RESIN	X	

DECEMBER

RG 1.7 /EM 526-1 REV. 2	CONTROL OF COMBUSTIBLE GAS CONCENTRATIONS IN CONTAINMENT FOLLOWING A LOSS-OF-COOLANT ACCIDENT	X	
RG 3.44 /FP 603-4	STANDARD FORMAT AND CONTENT FOR THE SAFETY ANALYSIS REPORT TO BE INCLUDED IN A LICENSE APPLICATION FOR THE STORAGE OF SPENT FUEL IN AN INDEPENDENT SPENT FUEL STORAGE INSTALLATION (MASTER-BASIN TYPE)		X

JANUARY

RG 10.8 /OH 723-4	GUIDE FOR THE PREPARATION OF APPLICATIONS FOR MEDICAL PROGRAMS		X
RG 1.144/RS 035-2	AUDITING OF QUALITY ASSURANCE PROGRAMS FOR NUCLEAR POWER PLANTS		X
RG 3.36 /SC 611-4	NONDESTRUCTIVE EXAMINATION OF TUBULAR PRODUCTS FOR USE IN FUEL PROCESSING PLANTS AND IN PLUTONIUM PROCESSING AND FUEL FABRICATION PLANTS		(WITHDRAWN)
RG 2.6 /SD 607-4	EMERGENCY PLANNING FOR RESEARCH REACTORS		X

1125 082

REGULATORY GUIDES

FEBRUARY

FOR
REVISED COMMENT

RG 8.23/OH 708-4	RADIATION SAFETY SURVEYS AT MEDICAL INSTITUTIONS		X
RG 1.28/RS 707-5 REV. 2	QUALITY ASSURANCE PROGRAM REQUIREMENTS (DESIGN AND CONSTRUCTION)	X	
RS 810-5	QUALIFICATION OF QUALITY ASSURANCE PROGRAM AUDIT PERSONNEL FOR NUCLEAR POWER PLANTS (DRAFT)		X
EM 805-5	NUCLEAR ANALYSIS AND DESIGN OF CONCRETE RADIATION SHIELDING FOR NUCLEAR POWER PLANTS (DRAFT)		X
RS 807-5	PROPOSED REVISION 2 TO REGULATORY GUIDE 1.8 PERSONNEL SELECTION AND TRAINING (DRAFT)		X

MARCH

RG 4.15 /ES 610-4 REV. 1	"QUALITY ASSURANCE FOR RADIOLOGICAL MONITORING PROGRAMS (NORMAL OPERATION)--EFFLUENT STREAMS AND THE ENVIRONMENT"	X	
SC 700-5	"FUNCTIONAL SPECIFICATION FOR SAFETY-RELATED VALVE ASSEMBLIES IN NUCLEAR POWER PLANTS (DRAFT)		X
OH 706-4	"GUIDE FOR PREPARATION OF APPLICATIONS FOR THE USE OF GAMMA IRRADIATORS (DRAFT)		X
RG 1.132/SS 703-4 REV. 1	"SITE INVESTIGATIONS FOR FOUNDATIONS OF NUCLEAR POWER PLANTS"	X	
RG 1.134/RS 616-5 REV. 1	"MEDICAL EVALUATION OF NUCLEAR POWER PLANT PERSONNEL REQUIRING OPERATOR LICENSES	X	
RG 7.9 /TP 502-4	"STANDARD FORMAT AND CONTENT OF PART 71 APPLICATIONS FOR APPRAISAL OF PACKAGING OF TYPE B, LARGE QUANTITY, AND FISSILE RADIOACTIVE MATERIAL"		X

APRIL

RG 3.43/FP 709-5 REV. 1	"NUCLEAR CRITICALITY SAFETY IN THE STORAGE OF FISSILE MATERIALS"	X	
RG 3.11.1/SC 722-4	"OPERATIONAL INSPECTION AND SURVEILLANCE OF EMBANKMENT RETENTION SYSTEMS FOR URANIUM MILL TAILINGS"		X
RG 8.8 /OH 507-4 REV. 4	"INFORMATION RELEVANT TO ENSURING THAT OCCUPATIONAL RADIATION EXPOSURES AT NUCLEAR POWER STATIONS WILL BE AS LOW AS IS REASONABLY ACHIEVABLE (ALARA)" (DRAFT)		X
RG 1.35.1/SC 807-4	"DETERMINING PRESTRESSING FORCES FOR INSPECTION OF PRESTRESSED CONCRETE CONTAINMENTS" (DRAFT)		X
RG 1.35/SC 810-4 REV. 3	"INSERVICE INSPECTION OF UNGROUTED TENDONS IN PRESTRESSED CONCRETE CONTAINMENTS"		X

REGULATORY GUIDES

			FOR REVISED COMMENT
<u>MAY</u>			
RH 802-4	CALCULATIONAL MODELS FOR ESTIMATING RADIATION DOSES FROM AIRBORNE RADIOACTIVE MATERIALS RESULTING FROM URANIUM MILLING OPERATIONS (DRAFT)		X
RG 5.7 /SG 909-4 REV. 1	ENTRY/EXIT CONTROL TO PROTECTED AREAS, VITAL AREAS, AND MATERIAL ACCESS AREAS (DRAFT)		X
RG 5.14/SG 910-4 REV. 1	USE OF OBSERVATION (VISUAL SURVEILLANCE) TECHNIQUES IN MATERIAL ACCESS AREAS (DRAFT)		X
RG 5.44/SG 479-4	PERIMETER INTRUSION ALARM SYSTEMS (DRAFT)		X
RG 5.77/SG 908-4	SHIPPING AND RECEIVING CONTROL OF SNM (DRAFT)		X
<u>JUNE</u>			
RG 1.84/SC 902-4 REV. 15	"DESIGN AND FABRICATION CODE CASE ACCEPTABILITY.. ASME SECTION III. DIVISION 1"	X	
RG 1.85/SC 903-4 REV. 15	"MATERIALS CODE CASE ACCEPTABILITY.. ASME SECTION III, DIVISION 1"	X	
SC 705-4	"ULTRASONIC TESTING OF REACTOR VESSEL WELDS DURING INSERVICE INSPECTION" (DRAFT)		X
<u>JULY</u>			
RG 8.19/OH 612-4 REV. 1	"OCCUPATIONAL RADIATION DOSE ASSESSMENT IN LIGHT-WATER REACTOR POWER PLANTS DESIGN STAGE MAN-REM ESTIMATES"	X	
RG 1.58/RS 901-5 REV. 1	"QUALIFICATION OF NUCLEAR POWER PLANT INSPECTION, EXAMINATION, AND TESTING PERSONNEL"		X
DRAFT RS 809-5	"QUALIFICATION TEST FOR CABLE PENETRATION FIRE STOPS FOR USE IN NUCLEAR POWER PLANTS DURING INSERVICE INSPECTION" (DRAFT)		X

1125 084

REGULATORY GUIDES

			<u>AUGUST</u>	FOR REVISED COMMENT
DRAFT	OH 717-4	"RADIATION PROTECTION TRAINING FOR LIGHT-WATER-COOLED NUCLEAR POWER PLANT PERSONNEL"		X
DRAFT	SC 721-4	"INSERVICE INSPECTION CODE CASE ACCEPTABILITY, ASME SECTION XI, DIVISION 1"		X
DRAFT	RS 705-4	"LIGHTNING PROTECTION FOR NUCLEAR POWER PLANTS"		X
DRAFT	RS 050-2	"QUALIFICATION TESTS OF ELECTRIC CABLES AND FIELD SPLICES FOR LIGHT-WATER-COOLED NUCLEAR POWER PLANTS"		X
DRAFT	MP 711-4	"STANDARD FORMAT & CONTENT FOR A LICENSEE PHYSICAL SECURITY PLAN FOR THE PROTECTION OF SPECIAL NUCLEAR MATERIAL OF MODERATE LOW STRATEGIC SIGNIFICANCE"		X
RG 1.33 /RS 902-4 REV. 3		"QUALITY ASSURANCE PROGRAM REQUIREMENTS (OPERATION)"		X
RG 3.34 /FP 065-4 REV. 1		"ASSUMPTIONS USED FOR EVALUATING THE POTENTIAL RADIOLOGICAL CONSEQUENCES OF ACCIDENTAL NUCLEAR CRITICALITY IN A URANIUM FUEL FABRICATION PLANT"	X	
RG 3.35 /FP 073-4		"ASSUMPTIONS USED FOR EVALUATING THE POTENTIAL RADIOLOGICAL CONSEQUENCES OF ACCIDENTAL NUCLEAR CRITICALITY IN A PLUTONIUM PROCESSING & FUEL FABRICATION PLANT"	X	
RG 1.145/SS 724-4		"ATMOSPHERIC DISPERSION MODELS FOR POTENTIAL ACCIDENT CONSEQUENCE ASSESSMENTS AT NUCLEAR POWER PLANTS"		X
RG 1.104/SC 512-4		"OVERHEAD CRANE HANDLING SYSTEMS FOR NUCLEAR POWER PLANTS"		(WITHDRAWN)

TASKS COMPLETED

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Guides Published for Comment	1	3	1	3	4	3	4	5	1	2	7	
Revised Guides Published	2	6	1	0	1	3	1	0	2	1	2	

ANSI STANDARDS PUBLISHED

OCTOBER	N46.2.11- 1977	QUALITY ASSURANCE REQUIREMENTS FOR THE DESIGN OF NUCLEAR FUEL REPROCESSING FACILITIES
	N46.2.13- 1977	QUALITY ASSURANCE REQUIREMENTS FOR CONTROL OF PROCUREMENT OF ITEMS AND SERVICES FOR NUCLEAR FUEL REPROCESSING FACILITIES
	N13.12	CONTROL OF RADIOACTIVE SURFACE CONTAMINATION ON MATERIALS, EQUIPMENT, AND FACILITIES TO BE RELEASED FOR UNCONTROLLED USE
	N13.11	PERSONNEL DOSIMETRY PERFORMANCE, CRITERIA FOR TESTING
	N542	SEALED RADIOACTIVE SOURCES. CLASSIFICATION
NOVEMBER	N14.6	SPECIAL LIFTING DEVICES FOR SHIPPING CONTAINERS WEIGHING 10,000 POUNDS, (4500 KG) OR MORE FOR NUCLEAR MATERIALS
	N42.13	CALIBRATION AND USAGE OF "DOSE CALIBRATOR" IONIZATION CHAMBERS FOR THE ASSAY OF RADIONUCLIDES
	N18.1	SELECTION AND TRAINING OF NUCLEAR POWER PLANT PERSONNEL
	ANSI/ANS- 15.4-1977	SELECTION AND TRAINING OF PERSONNEL FOR RESEARCH REACTORS
JANUARY	N46.2	QUALITY ASSURANCE REQUIREMENTS FOR POST REACTOR NUCLEAR FUEL CYCLE FACILITIES
	ANSI/IEEE STD 379 1977	APPLICATION OF THE SINGLE FAILURE CRITERION TO NUCLEAR POWER GENERATION STATION CLASS I E SYSTEMS
	N433.1 1977	SAFE DESIGN AND USE OF SELF-CONTAINED, DRY SOURCE STORAGE GAMMA IRRADIATORS (CATEGORY 1)
MARCH	ANSI/IEEE STD 336	INSTALLATION, INSPECTION, AND TESTING REQUIREMENTS FOR INSTRUMENTATION AND ELECTRIC EQUIPMENT DURING THE CONSTRUCTION OF NUCLEAR POWER
APRIL	ANSI/ANS- 81.2-1978	NUCLEAR CRITICALITY CONTROL AND SAFETY OF HOMOGENEOUS PLUTONIUM-URANIUM FUEL MIXTURES OUTSIDE REACTORS
	ANSI/ANS- 2.11-1978	EVALUATING SITE-RELATED GEOTECHNICAL PARAMETERS AT NUCLEAR POWER SITES, GUIDELINES FOR
	ANSI/ANS- 57.8-1978	FUEL ASSEMBLY IDENTIFICATION
MAY	ANSI/N46.2	QUALITY ASSURANCE PROGRAM REQUIREMENTS FOR POST REACTOR NUCLEAR FUEL CYCLE FACILITIES
	ANSI/ANS- 2.2	EARTHQUAKE INSTRUMENTATION CRITERIA FOR NUCLEAR POWER PLANTS
	ANSI/ANS- 2.12	COMBINING NATURAL AND EXTERNAL MAN-MADE HAZARDS AT POWER REACTOR SITES, GUIDELINES FOR
	ANSI/ANS- 15.15	REACTOR SAFETY SYSTEMS OF RESEARCH REACTORS, CRITERIA FOR THE
	ANSI/ANS- 19.5	REFERENCE REACTOR PHYSICS MEASUREMENTS, REQUIREMENTS FOR,
	ANSI/ANS- 4.1	DESIGN BASIS CRITERIA FOR SAFETY SYSTEMS IN NUCLEAR POWER GENERATING STATIONS
JUNE	ANSI/N303- 1978	CONTROL OF GASBORNE RADIOACTIVE MATERIAL AT NUCLEAR FUEL REPROCESSING FACILITIES, GUIDE FOR
	ANSI/ASME B31.1D-1979	WINTER 1978 ADDENDA TO ANSI B31.1-1977 EDITION, POWER PIPING
JULY	ANSI/ANS- 56.6-1978.	PRESSURIZED WATER REACTOR CONTAINMENT VENTILATION SYSTEMS

1125 086

ANSI STANDARDS PUBLISHED

AUGUST ANSI/N290- DESIGN, CONSTRUCTION AND OPERATION OF VENTILIATION SYSTEMS FOR
 1979 MIXED OXIDE (UO₂-PUO₂) FUEL FABRICATION PLANTS

ANSI/ASME COLLECTION, STORAGE, AND MAINTENANCE OF QUALITY ASSURANCE RECORDS
 N45.2.9-1979 F ? NUCLEAR POWER PLANTS, REQUIREMENTS FOR

TASKS COMPLETED

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
ANSI Standards Published	5	4	0	3	0	1	3	6	2	1	2	

NUREG REPORTS

OCTOBER	CR-0131 FP 813-7	DECOMMISSIONING OF NUCLEAR FACILITIES AND ANNOTATED BIBLIOGRAPHY
	NUREG0464 SGS 765-4	SITE SECURITY PERSONNEL TRAINING MANUAL, FINAL GUIDANCE
	NUREG0465 SGS 765-4	TRANSPORTATION SECURITY PERSONNEL TRAINING MANUAL, FINAL GUIDANCE
	NUREG0475 ES 710-8	RADIOLOGICAL ENVIRONMENTAL MONITORING BY NRC LICENSEES FOR ROUTINE OPERATIONS OF NUCLEAR FACILITIES -- TASK GROUP REPORT, E. F. CONTI, CHAIRMAN
NOVEMBER	CR-0044 MP 680-9	DESIGN CRITERIA FOR AUTOMATED SPECIAL NUCLEAR MATERIAL VAULTS
	CR-0442	EFFECTS OF AIR BLAST ON POWER STRUCTURES AND COMPONENTS
	CP-0001 TP 706-9	RADIOACTIVITY IN CONSUMER PRODUCTS
DECEMBER	NUREG0499 SD 718-8	SUPPLEMENT NO. 1, GENERAL CONSIDERATIONS AND ISSUES OF SIGNIFICANCE ON THE EVALUATION OF ALTERNATIVE SITES FOR NUCLEAR GENERATING STATIONS UNDER THE NATIONAL ENVIRONMENTAL POLICY ACT, ISSUED FOR COMMENT; FEDERAL REGISTER NOTICE PREPARED; JOINT PRODUCT WITH NRR
	CR-0515 MP 670-9	METHODS FOR THE ACCOUNTABILITY OF REPROCESSING PLANT DISSOLVER AND WASTE SOLUTIONS
	NUREG0436 REV. 1 FP 813-7	PLAN FOR REEVALUATION OF NRC POLICY ON DECOMMISSIONING OF NUCLEAR FACILITIES
JANUARY	CR-0129 FP 815-7	TECHNOLOGY, SAFETY AND COSTS OF DECOMMISSIONING A REFERENCE SMALL MIXED OXIDE FUEL FABRICATION PLANT
	CR-0216 TP 604-9	RADIATION DOSE ESTIMATES FROM TIMEPIECES CONTAINING TRITIUM OR PROMETHIUM-147 IN RADIOLUMINOUS PAINTS
	CH-0591 MP 868-9	CURRENT USAGE OF CONTAINERS FOR SNM STORAGE, TRANSFER AND MEASUREMENT, INTERIM CONTRACT REPORT
FEBRUARY	CR-0334 TP 610-9	SABOTAGE, SECURITY, AND SAFEGUARDS IN URBAN AREA TRANSPORT OF RADIOACTIVE MATERIALS -- INTERIM REPORT
MARCH	CR-0530 ES 727-9	SOLUBILITY CLASSIFICATION OF AIRBORNE PRODUCTS FROM URANIUM ORES AND TAILINGS PILES (1/79), FINAL REPORT FOR CONTRACT
	CR-0554 OH 803-9	FINAL REPORT - MARCH 1978-DECEMBER 1979, "POCKET-SIZED ELECTRONIC DOSIMETER TESTING," JAN. 1979
	CR-0601	INDEPENDENT SPENT FUEL STORAGE INSTALLATIONS (ISFSI) ANNUAL REPORT FOR FY 1978
	CR-0163	COMMENTS ON FUEL CRUD AS A SAFETY AND OPERATIONAL FACTOR OF INDEPENDENT SPENT FUEL STORAGE INSTALLATIONS (ISFSI)
APRIL	CR-0649 FP 804-9	SPENT FUEL HEATUP FOLLOWING LOSS OF WATER DURING STORAGE

NUREG REPORTS

MAY	NUREG-0558 RH 902-8	INTERAGENCY AD HOC POPULATION DOSE ASSESSMENT GROUP, REPORT ON POPULATION DOSE AND HEALTH IMPACT OF THE ACCIDENT AT THE THREE MILE ISLAND NUCLEAR STATION, MAY 10, 1979
	CR-0683 MP 754-9	STATISTICAL METHODS FOR EVALUATING SEQUENTIAL MATERIAL BALANCE DATA
	CR-0488 EM 907-7	SAND78-1373 NUCLEAR POWER PLANT FIRE PROTECTION FIRE DETECTION (SUBSYSTEMS STUDY TASK 2)
	NUREG-0554 SC 512-4	SINGLE-FAILURE-PROOF CRANES FOR NUCLEAR POWER PLANTS
JUNE	CR-0711 ES 805-9	"EVALUATION OF METHODS FOR THE DETERMINATION OF X- AND GAMMA-RAY EXPOSURE ATTRIBUTABLE TO A NUCLEAR FACILITY USING ENVIRONMENTAL TLD MEASUREMENTS" BY FAIL DE PLANQUE, ENVIRONMENTAL MEASUREMENTS LABORATORY, U.S. DEPARTMENT OF ENERGY
	CR-0668 FP 712-9	AN EVALUATION OF POTENTIAL CHEMICAL/MECHANICAL DEGRADATION PROCESSES AFFECTING FUEL AND STRUCTURAL MATERIALS UNDER LONG-TERM WATER STORAGE
	CR-0841 OH 601-1	IN VIVO COUNTING AT SELECTED URANIUM MILLS
	CR-0789 OH 807-9	"INTERNAL DOSIMETRY DATA AND METHODS OF ICRP-PART 1"
JULY	CR-0562 SG 868-7	SPECIFICATIONS FOR GERMANIUM RADIATION DETECTORS USED FOR GAMMA RAY ASSAY IN SAFEGUARDS APPLICATIONS
AUGUST	CR-1024 SS 724-4	"AN INITIAL ASSESSMENT OF FLASH DENSITY & PEAK CURRENT CHAR. OF LIGHTNING FLASHES TO GROUND IN SOUTH FLORIDA"
	CR-0635 RH 722-8	"EXCESS CANCER INCIDENCE IN MESA COUNTY"
	NUREG-0602 RH 618-8	"RESEARCH NEEDS & CAPABILITIES OF EPA & NRC IN THE AREA OF THE HEALTH EFFECTS OF LOW-LEVEL IONIZING RADIATION"

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Number Issued	4	3	3	3	1	4	1	4	4	1	3	

POLICY STATEMENTS ISSUED

FEBRUARY TP 705-8 FINAL MEDICAL POLICY STATEMENT, 44FR8242

TASKS COMPLETED

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Policy Statements Issued	0	0	0	0	1	0	0	0	0	0	0	0

OTHER SD PRODUCTS

MARCH SECY-79-186 NRC/MSHA MEMORANDUM OF UNDERSTANDING ON REGULATION OF OCCUPATIONAL HEALTH PROTECTION AT URANIUM MILLS

APRIL "PRELIMINARY ESTIMATES OF POPULATION DOSE AND HEALTH EFFECTS -- THREE MILE ISLAND NUCLEAR STATION, UNIT #2 ACCIDENT," ISSUED APRIL 15, 1979 BY AD HOC INTERAGENCY (NRC, EPA, HEW) DOSE ASSESSMENT GROUP.

AUGUST RS 903-8 STANDARD REVIEW PLAN, SECTION 8.3.1, "A-C POWER SYSTEMS (ONSITE)"

RS 905-8 STANDARD REVIEW PLAN, SECTION 9.3.1, "COMPRESSED AIR SYSTEM"

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

PRM 50-22 PUBLIC INTEREST RESEARCH GROUP, TO REQUIRE PLANT OPERATORS TO POST BONDS FOR DECOMMISSIONING

PRM 73-3 KMC, TO DEFER IMPLEMENTATION OF SECURITY PERSONNEL TRAINING (SG 903-3)

PRM 71-5 TP 805-3 CHEM NUCLEAR SYSTEMS TO WITHHOLD PROPRIETARY MATERIAL ON PACKAGING FOR USE BY GENERAL LICENSEES 44 FR 33984

PRM 7-1 TP 901-3 "NON-DESTRUCTIVE TESTING MANAGEMENT ASSOCIATION" 44 FR 45495

ENVIRONMENTAL IMPACT STATEMENTS

AUGUST TP 013-2 PACEMAKER SUPPLEMENT, NUREG 0060, SUPP. 1, 44FR46960-8/9/79

1125 090

AMENDMENTS TO AND NEW NRC REGULATIONS

			EFFECTIVE RULE	PROPOSED RULE
OCTOBER	DS 519-0	AMENDMENT TO 10 CFR PART 21 (43 FR 48621) TO REMEDY THE "SUBTIER SUPPLIER" PROBLEM	X	
	EM 526-1	AMENDMENTS TO 10 CFR PART 50 (43 FR 50162) CONCERNING STANDARDS FOR COMBUSTIBLE GAS CONTROL SYSTEMS	X	
	FP 516-1	10CFR PART 72: "STORAGE OF SPENT FUEL IN AN INDEPENDENT SPENT FUEL STORAGE INSTALLATION"		X
NOVEMBER	TP 817-1	10CFR PART 35: FINAL RULE REQUIRING CONFIRMATION OF RADIOACTIVE SOURCE REMOVAL FROM PATIENTS, PUBLISHED IN FED. REGISTER 11/28/78	X	
	SC 824-1	AMENDMENT TO 50.55A (CLARIFYING AMENDMENT)	X	
DECEMBER	SC 809-1	PROPOSED AMENDMENT TO 10 CFR 50.55A		X
	ES 720-1	PROPOSED AMENDMENT TO 10 CFR 20.304, "BURIAL OF SMALL QUANTITIES OF RADIONUCLIDES" (43 FR 56677)		X
JANUARY	TP 818-1	PART 35: CALIBRATION OF TELETHERAPY UNITS, PUBLISHED 1/8/79, 44 FR 1722	X	
	SC 710-3	PROPOSED AMENDMENT TO 50.55A (SECTION XI, SUMMER 78 ADDENDA)		X
FEBRUARY	TP 615-1	44FR10358, FINAL RULE DELETING DIAGNOSTIC CLINICAL PROCEDURES FROM PART 35	X	
	OH 705-1	NOTICES, INSTRUCTIONS, AND REPORTS TO WORKERS: INSPECTION STANDARDS FOR PROTECTION AGAINST RADIATION, PARTS 19 & 20, 44 FR 10388		X
MARCH	TP 814-1	44FR17479, TIMELY NOTIFICATION OF DISCONTINUED LICENSED PROGRAMS FOR PARTS 30, 40 AND 70 LICENSEES, PUBLISHED IN FR 3/22/79	X(6/5/79)	
	SC 820-1	PROPOSED AMENDMENT TO APPENDICES G & H OF 10CFR50 FRACTURE TOUGHNESS AND REACTOR VESSEL SURVEILLANCE REQUIREMENTS PROPOSED LIMITED REVISION		X
	MP 802-3	EXTENSION OF DELAY TO IMPLEMENTATION OF PUT-DOWN SEARCH REQUIREMENTS (PRM 73-2)	X	
APRIL	TP 801-1	PART 35: INSTITUTIONAL RADIATION SAFETY COMMITTEE		X
	RH 904-3	PARTS 13/32: ADDITION OF VETERINARIANS TO THE GENERAL LICENSE FOR IN VITRO CLINICAL OR LABORATORY USE BY PRODUCT MATERIAL		X
MAY	SG 907-1	44FR26850, GENERAL LICENSE REQUIREMENTS FOR ANY PERSON WHO POSSESSES FORMULA QUANTITIES OF STRATEGIC SPECIAL NUCLEAR MATERIAL IN TRANSIT SUBJECT TO CERTAIN REQUIREMENTS	X	
JUNE	RH 907-1	44FR32394 MOLYBDENUM BREAKTHROUGH TEST		X
	MP 711-1	CATEGORY II & III SNM PHYSICAL SECURITY	X	
	OH 501-1	TRANSIENT WORKER RULE	X	
JULY	SG 711-1	SAFEGUARDS REQUIREMENTS FOR SPECIAL NUCLEAR MATERIAL OF MODERATE AND LOW STRATEGIC SIGNIFICANCE, JULY 24, 1979 (FINAL) (44FR43280)	X	
	SG 536-1	SAFEGUARDS ON NUCLEAR MATERIAL; IMPLEMENTATION OF US/IAEA AGREEMENT, JULY 17, 1979 (PROPOSED) (44FR41468)		X

AMENDMENTS TO AND NEW NRC REGULATIONS

		EFFECTIVE RULE	PROPOSED RULE
AUGUST	TP 016-2 PROPOSED AMENDMENTS TO PART 71 TO BE CONSISTENT WITH IAEA, 44 FR 48234-8/17/79		X
	RH 904-3 ADDITION OF VETERINARIANS TO THE GENERAL LICENSE S 31.11, PRM 31-3	X	

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

1125 092

SUMMARY OF SELECTED STANDARDS STATISTICS

COMPLETED ACTIONS FY 1978 AND FY 1979

	10-01-77 THRU 09-30-78 (12 MONTHS)	10-01-78 THRU 08-31-79 (11 MONTHS)
GUIDES PUBLISHED FOR COMMENT	35	34
REVISED GUIDES PUBLISHED	23	19
ANSI STANDARDS PUBLISHED	18	27
DRAFT ENV. STATEMENTS PUBLISHED	0	0
FINAL ENV. STATEMENTS PUBLISHED	2	1
PROPOSED RULES PUBLISHED	16	11
EFFECTIVE RULES PUBLISHED	11	
RULEMAKING PETITIONS DENIED	3	
RULEMAKING PETITIONS APPROVED	0	
RULEMAKING PETITIONS WITHDRAWN	1	
NUREG REPORTS ISSUED	19	
POLICY STATEMENTS ISSUED	0	
OTHER SD PRODUCTS	0	

SECTION VIII - RESEARCH PROJECTS

NUCLEAR REGULATORY RESEARCH DATA AS OF: SEPTEMBER 21, 1979

LOFT (Loss of Fluid Test)

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 to assess and improve the analytical methods currently used to predict the course of various loss of coolant accidents and off-normal transients.

STATUS:

1. A Research Information Letter on the results of the first two large cold-leg LOCA simulations at nuclear power plants is being prepared.
2. Calibration of LOFT flow instrumentation is in progress at Wyle Labs, Norco, Cal. Flow measurement spool pieces identical to those in LOFT are being calibrated under transient two-phase conditions over the full range of flows experienced in LOFT experiments. For the first time it will soon be possible to quote an accurate error band on LOFT flow measurements.
3. The small-break and transient test series have been brought forward in the test program. The first powered small-break test is scheduled for November. It has been selected as a U.S.-vendor standard problem.

PROBLEMS:

None

NUCLEAR REGULATORY RESEARCH

CONTINUED
DATA AS OF: SEPTEMBER 21, 1979

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 verifying LOCA computational methods,
2. Provide data to investigate UHI phenomena and to evaluate analytical capabilities,
3. Investigate alternate ECC concepts, and
4. Provide data for interpreting LOFT data and addressing LOFT design compromises.

STATUS:

The planned UHI program has been delayed due to TMI-2 accident support activities. Gas venting experiments were conducted in support of TMI-2 and simulated transients have also been carried out. These latter tests have demonstrated that core uncovering can occur even though pressurizer level indication would indicate a covered core situation.

Currently, Semiscale FY 79 and FY 80 plans are being reevaluated. Consideration is being given to more small break testing up to the July - October 1979 period and deferring UHI tests to FY 1980. In addition, facility upgrade evaluations are underway. The thrust of this proposed upgrade is to add secondary systems, steam generators and primary loop improvement to Semiscale. This is in keeping with ACRS recommendations to concentrate on plant transients and small LOCAs. A revised program plan has been prepared which emphasizes small break tests and investigations of PWR plant related transient thermal hydraulic phenomena. LOFT-support small-break studies are emphasized in first quarter of FY 1980.

POTENTIAL PROBLEMS:

1. Agreement on a revised FY 1979 and FY 1980 program plan and facility upgrade requirements.

NUCLEAR REGULATORY RESEARCH

DATA AS OF: SEPTEMBER 21, 1979

PBF (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 operating conditions.

STATUS:

Test RIA 1-1 was completed October 7 and RIA 1-2 was completed November 22.

Three LLR nuclear blowdown tests were completed in March to scope the expected behavior of LOFT reactor fuel elements in planned LOFT tests L2-3, L2-5 and L2-4 (unpressurized rods). The third LLR test was repeated to study the effects of possible clad creepdown. No measurable creepdown effects were observed. Measured peak clad temperatures (PCTs) were from 100K to 200K below best estimate predictions and there was very little evidence of damage to the unpressurized rods at even the most severe test conditions (test LLR4: blowdown from 53kw/m, with a three second scram delay: measured PCTs were 1125K to 1175K). An unplanned waterlogged rod in test LLR-3 makes this the first known blowdown of a waterlogged rod. The indicated PCT was 970K, about the same as for three companion unpressurized rods. The waterlogged rod ballooned and ruptured in the peak power region. Balloon length was about 3 cm, and peak diametrical expansion was about 50%. This implies limited additional local damage around waterlogged rods in most LOCA accidents.

A double-ended cold leg break test (LOC-3) with pressurized rods was performed June 27. This was the first of four PBF 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 will be performed in September to study relative clad ballooning at a 1300K (1880F) PCT (low beta phase). Preparations are being made for a surface thermocouple quench test in early FY 1980.

Test loop modifications are scheduled for early FY 1980. These modifications will improve loop performance for the experimental program.

PROBLEMS:

None

NUCLEAR REGULATORY RESEARCH DATA AS OF: SEPTEMBER 21, 1979

PRESSURIZED WATER REACTOR BLOWDOWN HEAT TRANSFER PROGRAM (PWR-BDHT)

Purpose:

The Blowdown Heat Transfer program at the Oak Ridge National Laboratory is designed to determine the time to critical heat flux (CHF) at the fuel-coolant interface and the heat transfer rates during pre and post CHF regimes of the blowdown (rapid depressurization and coolant loss) phase of a loss of coolant accident as influenced by variations in reactor power, system pressure, coolant flow and pipe break locations.

Status:

Thirty-eight blowdown tests, simulating double-ended pressurizer water reactor (PWR) pipe breaks, have been completed using a 49 fuel rod electrically heated test bundle. The full length bundle simulates a portion of a PWR nuclear core. Twenty-five of the tests were performed with four rods unpowered to study the influence of unheated PWR rods (such as control rod thimbles which contain no uranium) on the time to CHF and the temperature rise during blowdown. Two failed rods are being used in unpowered positions. Bundle No. 1 testing was completed in April 1979; data evaluation is in progress. Bundle No. 1 has been removed and stored for future use.

The need for a better instrumented bundle, plus the extended life of Bundle No. 1, led to decision to proceed directly to Bundle No. 3. Bundle No. 3 rod fabrication was completed in March 1979; installation of Bundle No. 3 was completed in late June. The improvements inherent in Bundle No. 3, plus additional loop instrumentation will provide a means to measure accurately pre- and post-CHF heat transfer rates. Initiation of Bundle No. 3 testing is scheduled for October 1979.

Problems:

Facility shakedown and calibration may reveal some advanced instrumentation (i.e., band probes) survivability problems. Contingency plans have been made for in-situ replacement if necessary.

Bundle 3 installation has encountered some internal leakage problems; ORNL feels that leaks can be fixed and facility shakedown concluded in September 1979.

NUCLEAR REGULATORY RESEARCH DATA AS OF: SEPTEMBER 21, 1979

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 that are as good or are better than the original vessel weld.

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. The data are presently being analyzed.

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 10CFR50. The first irradiation was completed in March 1977 and the initial testing has begun. The second and third irradiations are complete. A qualification program, for the testing method to be used to evaluate the fracture toughness in fracture mechanics terms from small specimens, is essentially complete. Testing of the smaller fracture toughness specimens has started and the first set of data from Charpy specimens have been developed.

PROBLEMS:

None

**SECTION IX -
FOREIGN REACTORS
&
EXPORT LICENSE APPLICATIONS**

1125 100

SUMMARY OF FOREIGN POWER REACTORS

NUMBERS IN PARENTHESES ARE NET MWE

DATA AS OF: AUGUST 31, 1979

COUNTRY	REACTORS OPERATING	REACTORS UNDER CONST	REACTORS PLANNED	TOTAL REACTORS
ARGENTINA	1 (319)	1 (600)	1	3
AUSTRIA	1 (692)*	-	-	1
BELGIUM	3 (1650)	3 (2825)	1	7
BRAZIL	-	3 (1870)	1	4
BULGARIA	2 (880)	2 (880)	0	4
CANADA	9 (4750)*	6 (3494)	5	20
CUBA	-	-	1	1
CZECHOSLOVAKIA	1 (110)	4 (1760)	-	5
DENMARK	-	-	2	2
EGYPT	-	-	3	3
FINLAND	1 (420)	3 (3740)	3	7
FRANCE	14 (6418)	26 (24,885)	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
IRAN	-	2 (2400)**	0	2
IRELAND	-	-	1	1
ISRAEL	-	-	1	1
ITALY	4 (1387)	1 (40)	4	9
JAPAN	18 (11502)	8 (65839)	1	27
KOREA, REPUBLIC OF SOUTH	1 (595)	2 (1294)	6	9
LUXEMBOURG	-	-	1	1
MEXICO	-	2 (1308)	-	2
NETHERLANDS	2 (498)	-	-	2
NORWAY	-	-	1	1
PAKISTAN	1 (125)	-	1	2
PHILIPPINES	-	-	2	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	3 (1006)	1 (920)	3	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
TOTAL	151 (66420)	115 (151,093)	71	337

SOURCE: INTERNATIONAL PROGRAMS

*REACTOR CONSTRUCTION COMPLETED, NOT YET IN COMMERCIAL OPERATION

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

** REACTOR CONSTRUCTION SUSPENDED.

1125 101

EXPORT LICENSE APPLICATIONS

DATA AS OF: AUGUST 31, 1979

DESCRIPTION:

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

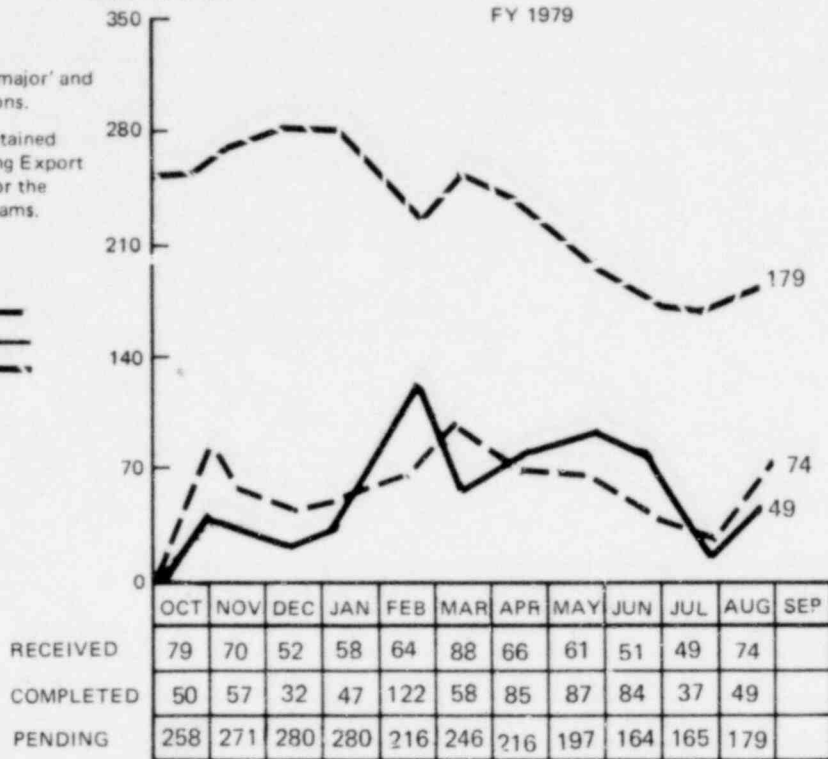
Statistics for this page are obtained from the Summary of Pending Export Licenses prepared by MPA for the Office of International Programs.

KEY:

RECEIVED
 COMPLETED
 PENDING

Export Licenses

FY 1979



Awaiting Applicant Reply:

In Preparation For Transmittal
To State Department:

Under Executive Branch Review:

Routine Reload

In Preparation For Commission Review:

Sent to DOE

Under Commission Review:

In Process For Issuance:

Under Further Review-Special Case:

Under Generic Approval

Returned From State
No Action

Amendment Only in
Process Issuance

Awaiting generic assurances on transfer of
components & materials.

Awaiting Applicant Reply:	3	3	3	0	1	0	1	5	2	3	0	
In Preparation For Transmittal To State Department:	12	3	7	6	8	3	3	4	4	2	10	
Under Executive Branch Review:	177	182	171	136	142	176	167	142	118	124	120	
Routine Reload	0	7	13	8	3	5	0	0	1	0	0	
In Preparation For Commission Review:	6	5	15	17	12	3	3	6	7	7	5	
Sent to DOE	7	13	10	13	20	17	13	11	6	11	10	
Under Commission Review:	9	4	2	10	8	11	6	2	7	5	2	
In Process For Issuance:	2	3	3	18	2	3	3	9	2	0	8	
Under Further Review-Special Case:	5	6	8	10	10	15	13	15	11	12	12	
Under Generic Approval	8	3	2	0	0	5	1	2	5	0	1	
Returned From State No Action	0	0	0	0	0	0	1	0	0	0	0	
Amendment Only in Process Issuance	4	0	0	4	0	1	0	1	0	0	7	
Awaiting generic assurances on transfer of components & materials.	25	42	46	58	10	7	5	1	1	1	1	

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SECTION X - EXEMPTIONS

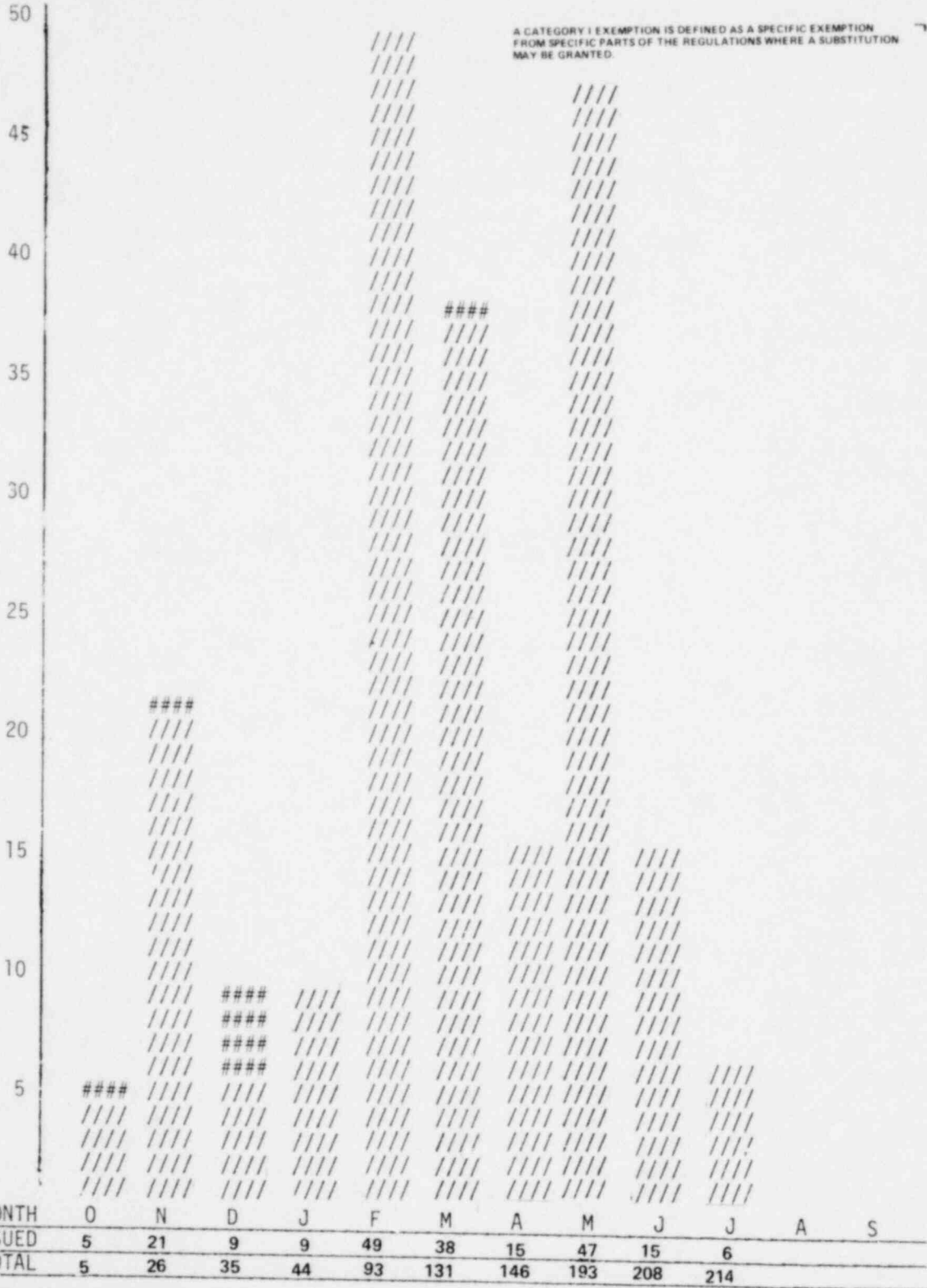
1125 103

1152 104

EXEMPTIONS ISSUED

DATA AS OF: AUGUST 31, 1979

CATEGORY I EXEMPTIONS ISSUED DURING FY 1979



KEY

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

FOOTNOTE:
 NO CATEGORY 1 EXEMPTIONS
 WERE GRANTED IN AUGUST.

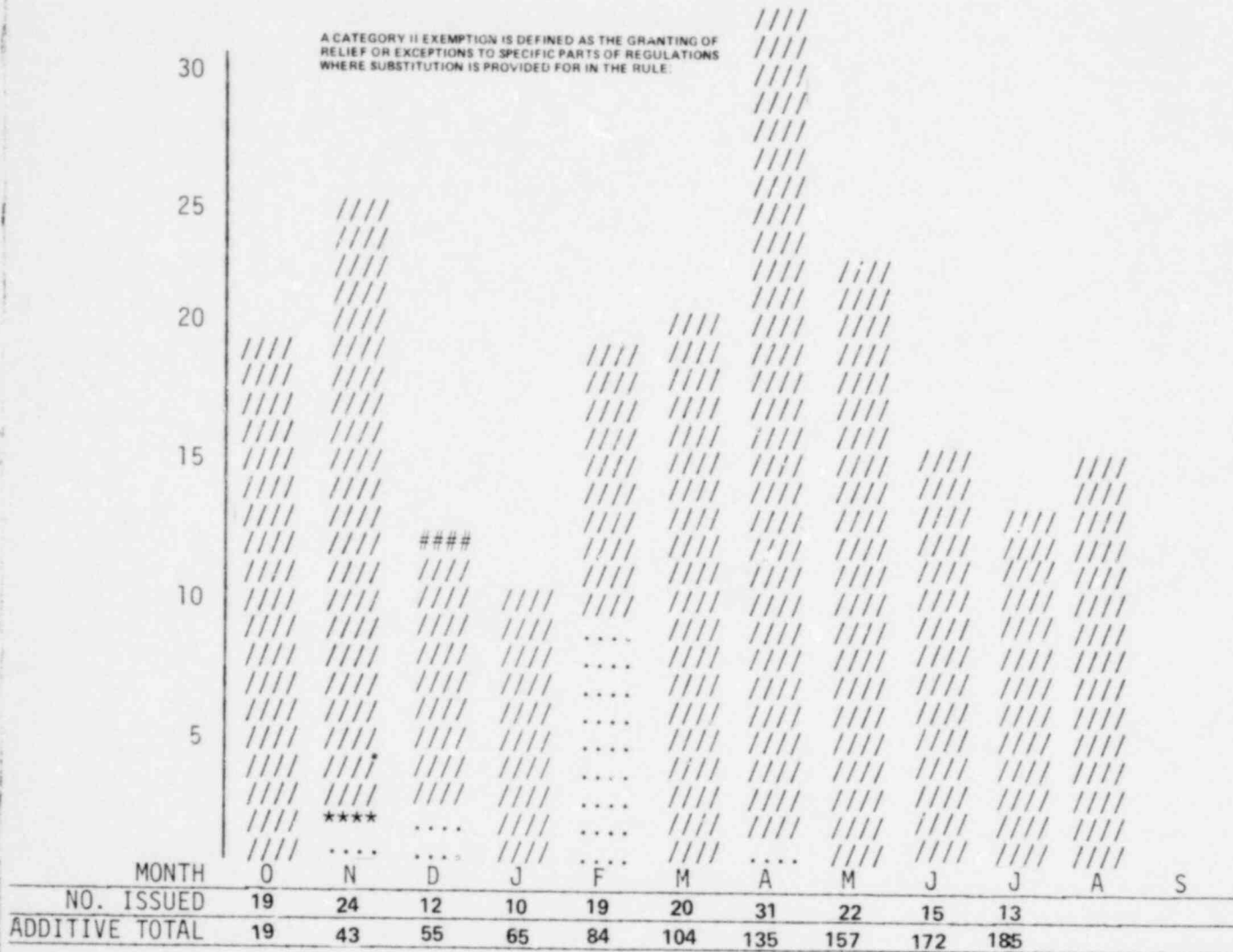
1125 104

EXEMPTIONS ISSUED

DATA AS OF: AUGUST 31, 1979

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.



KEY

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

FOOTNOTE:
THE OFFICES OF INTERNATIONAL PROGRAMS
AND NUCLEAR REACTOR REGULATION DID NOT
GRANT ANY EXEMPTIONS.

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

SECTION XI - CASELOAD PROJECTIONS

1125 106

CASELOAD PROJECTIONS

*DATA AS OF: FEBRUARY 1979

NEXT UPDATE: OCTOBER 1979

	<u>FY 1981</u>	<u>FY 1982</u>	<u>FY 1983</u>	<u>FY 1984</u>	<u>FY 1985</u>
<u>REACTORS:</u>					
New CP Applications	0	2(4)	2(4)	2(4)	2(4)
New OL Applications	8(16)	5(11)	6(7)	7(12)	5(9)
Licensed	94	101	115	126	139**
Under Construction	91	88	76	59	60
Reactor Sites	100	102	103	105	107
<u>FUEL CYCLE FACILITIES:</u>					
New Mill Applications	1	2	2	2	2
New Fuel Fab/UF ₆ Applications	0	0	0	0	0
New Spent Fuel Applications	1	0	0	0	0
New HLW Applications	0	1	0	0	0
New LLW Applications	1	1	1	1	0
Licensed	55	62	68	71	76
<u>OTHER</u>					
Radioisotopes Licenses	9200	9450	9700	9950	10,200
Export Issued (Major)	198	208	218	218	218
Import Issued (Major)	25	25	25	25	25

NOTE: THE FY 1981 PROJECTIONS FOR REACTORS AND FUEL CYCLE FACILITIES ARE BASED ON WRITTEN SURVEYS CONDUCTED BY THE OFFICES OF NRR AND NMSS. 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 1982-1985 ARE BASED ON BEST ESTIMATES AND DO NOT REPRESENT COMMITMENTS OR ORDERS BY A SPECIFIC APPLICANT TO UNDERTAKE A GIVEN LICENSE ACTIVITY.

*Source: "Planning Projections for Fiscal Years 1981 - 85", March 1979

**127 GWe

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SECTION XII -
EMERGENCY PREPAREDNESS

STATE PROGRAMS - EMERGENCY PLANS

DATA AS OF: SEPTEMBER 7, 1979

STATE	NO. OF NUCLEAR POWER FACILITIES PLANNED, UNDER CONSTRUCTION, OR OPERATING	EMERGENCY PLAN STATUS	PROJECTED CONCURRENCE DATE
ALABAMA	7	NRC CONCURRENCE	02-09-79C
ALASKA	0	*	----
ARIZONA	3	UNDER DEVELOPMENT	1981
ARKANSAS	2	NRC CONCURRENCE	05-03-79C
CALIFORNIA	9	NRC CONCURRENCE	08-15-78C
COLORADO	1	UNDER REVIEW	NOVEMBER 1979
CONNECTICUT	4	NRC CONCURRENCE	12-21-77C
DELAWARE	0	NRC CONCURRENCE	07-24-78C
DIST. OF COLUMBIA	0	*	----
FLORIDA	5	NRC CONCURRENCE	08-04-78C
GEORGIA	4	UNDER REVIEW	DECEMBER 1979
HAWAII	0	*	----
IDAHO	0	*	----
ILLINOIS	17	UNDER DEVELOPMENT	JUNE 1980
INDIANA	3	UNDER DEVELOPMENT	JUNE 1980
ICWA	1	NRC CONCURRENCE	02-27-79C
KANSAS	1	NRC CONCURRENCE	09-19-78C
KENTUCKY	0	UNDER REVIEW	DECEMBER 1979
LOUISIANA	3	UNDER REVIEW	JULY 1980
MAINE	1	UNDER DEVELOPMENT	MAY 1980
MARYLAND	2	UNDER REVIEW	MAY 1980
MASSACHUSETTS	5	UNDER DEVELOPMENT	MARCH 1980
MICHIGAN	9	UNDER DEVELOPMENT	FEBRUARY 1980
MINNESOTA	3	UNDER DEVELOPMENT	DECEMBER 1979
MISSISSIPPI	4	UNDER DEVELOPMENT	1981
MISSOURI	2	UNDER DEVELOPMENT	FEBRUARY 1980
MONTANA	0	*	----
NEBRASKA	2	UNDER REVIEW	SEPTEMBER 1979
NEVADA	0	*	----
NEW HAMPSHIRE	2	UNDER DEVELOPMENT	MAY 1980
NEW JERSEY	6	NRC CONCURRENCE	09-30-77C
NEW MEXICO	0	*	----
NEW YORK	13	NRC CONCURRENCE	01-23-79C
NORTH CAROLINA	11	UNDER REVIEW	MAY 1980
NORTH DAKOTA	0	*	----
OHIO	8	UNDER REVIEW	NOVEMBER 1979
OKLAHOMA	2	UNDER DEVELOPMENT	1981
OREGON	3	UNDER REVIEW	MAY 1980
PENNSYLVANIA	10	UNDER DEVELOPMENT	FEBRUARY 1980
PUERTO RICO	0	*	----
RHODE ISLAND	2	UNDER DEVELOPMENT	MAY 1980
SOUTH CAROLINA	10	NRC CONCURRENCE	11-23-77C
SOUTH DAKOTA	0	*	----
TENNESSEE	11	UNDER REVIEW	NOVEMBER 1979
TEXAS	5	UNDER REVIEW	FEBRUARY 1980
UTAH	0	*	----
VERMONT	1	UNDER DEVELOPMENT	FEBRUARY 1980
VIRGINIA	8	UNDER REVIEW	SEPTEMBER 1979
WASHINGTON	7	NRC CONCURRENCE	03-29-77C
WEST VIRGINIA	0	UNDER DEVELOPMENT	MAY 1980
WISCONSIN	5	UNDER REVIEW	NOVEMBER 1979
WYOMING	0	*	----

* NOT IMPACTED BY LICENSED NUCLEAR POWER PLANTS; LOW PRIORITY UNTIL ALL OTHER STATES' PLANS HAVE RECEIVED CONCURRENCE.

12 NRC CONCURRENCE
 13 UNDER REVIEW
 15 UNDER DEVELOPMENT
 12 NOT IMPACTED

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1125 110

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