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PROGRAM

SUMMARY

REPORT

U.S. NUCLEAR REGULATORY COMMISSION

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# **PROGRAM SUMMARY REPORT**



**PREPARED BY :**

**OFFICE OF MANAGEMENT AND PROGRAM ANALYSIS  
NUCLEAR REGULATORY COMMISSION**

# ACRONYMS

|         |  |
|---------|--|
| 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   |

# FOREWORD

128th 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.

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# HIGHLIGHTS

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

AS OF APRIL 30, 1980  
67 UNITS HAVE BEEN LICENSED TO OPERATE  
3 UNITS ARE LICENSED FOR LOW POWER TESTING  
85 UNITS HAVE CONSTRUCTION PERMITS  
11 UNITS ARE UNDER CONSTRUCTION PERMIT REVIEW  
166 TOTAL UNITS

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

AS OF MAY 2, 1980  
NO NEW APPLICATIONS WERE TENDERED IN APRIL  
7 NEW APPLICATIONS HAVE BEEN TENDERED TO DATE IN FY 80  
21 NEW APPLICATIONS HAVE BEEN OR ARE PROJECTED TO BE TENDERED DURING FY 80 & 81

## CONSTRUCTION PERMIT FORECAST (PG 2-4)

AS OF APRIL 30, 1980  
NO CONSTRUCTION PERMIT REVIEWS WERE COMPLETED IN APRIL  
NO CONSTRUCTION PERMIT REVIEW IS ESTIMATED FOR COMPLETION IN FY 81

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

AS OF MAY 2, 1980  
NO CONSTRUCTION PERMIT APPLICATIONS WERE DOCKETED IN APRIL 1980  
NO SAFETY EVALUATION SUPPLEMENTS ARE PROJECTED TO BE ISSUED IN FY 80  
NO FINAL ENVIRONMENTAL STATEMENTS ARE PROJECTED TO BE ISSUED IN FY 80

## OPERATING LICENSE FORECAST (PG 2-10)

NO OPERATING LICENSE WAS ISSUED IN MARCH  
4 OPERATING LICENSES ARE EXPECTED TO BE ISSUED DURING FY 80  
6 OPERATING LICENSES ARE EXPECTED TO BE ISSUED IN FY 81

DURING MARCH, 155,229 MWT (DOES NOT INCLUDE INDIAN POINT #1, HUMBOLDT BAY AND THREE MILE ISLAND #2) WAS THE TOTAL THERMAL POWER LICENSED WHICH WAS CAPABLE OF PRODUCING APPROX. 50,000 MWE OF ELECTRICITY.

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

AS OF MAY 2, 1980  
70 PLANTS ARE ACTIVELY UNDER CONSTRUCTION

# HIGHLIGHTS

## MONTHLY HIGHLIGHTS - OF COMMERCIAL POWER UNITS (PG 2-12/13)

DURING MARCH 1980

- 67 UNITS WERE IN COMMERCIAL OPERATION
- 67 UNITS WERE LICENSED TO OPERATE (EXCLUDES INDIAN POINT 1, HUMBOLDT BAY AND THREE MILE ISLAND 2 WHICH HAVE OPERATING LICENSES BUT ARE SHUTDOWN INDEFINITELY)
- 1 UNIT WAS LICENSED FOR FUEL LOADING AND LOW POWER TESTING
- 35 UNITS EXPERIENCED SHUTDOWNS GREATER THAN 72 HOURS
- 6 UNITS WERE DERATED

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

AS OF MAY 9, 1980

- 10 APPLICATIONS WERE RECEIVED IN FY 80

## NMSS MAJOR AND MINOR CASEWORK (PG 3-8)

AS OF MAY 9, 1980

- 16 MAJOR CASES HAVE BEEN COMPLETED TO DATE IN FY 80

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

DURING APRIL 1980

- 941 - END OF MONTH INVENTORY (PENDING LETTERS NOT INCLUDED)
- 220 - APPLICATIONS GREATER THAN 90 DAYS
- 603 - APPLICATIONS RECEIVED
- 477 - LICENSING ACTIONS COMPLETED (APPLICATIONS LICENSED)
- 1074 - BEGINNING OF MONTH INVENTORY
- 941 - END OF MONTH INVENTORY

## MONTHLY HIGHLIGHTS - STANDARDS DEVELOPMENT (PG 4-3 THRU 4-12)

DURING APRIL 1980

- NO PROPOSED RULES WERE ISSUED
- NO EFFECTIVE RULES WERE PUBLISHED
- NO ACTIVE GUIDES WERE PUBLISHED
- 2 ANSI STANDARDS WERE PUBLISHED
- 4 NUREG REPORTS WERE PUBLISHED
- NO POLICY STATEMENTS WERE ISSUED

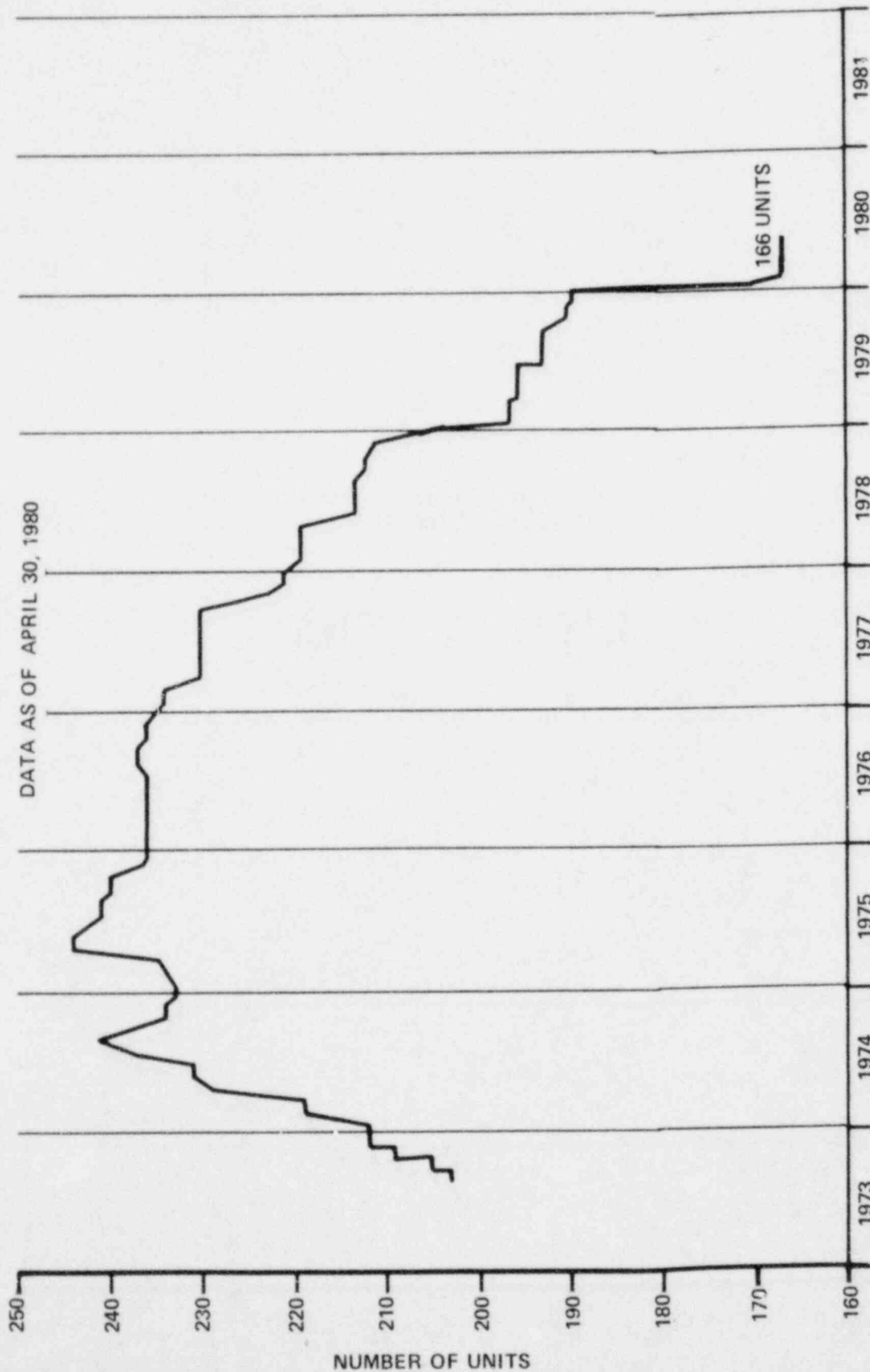
THE FOLLOWING ADDITIONS AND DELETIONS WERE MADE TO THIS MONTH'S ISSUE



**SECTION I -**

**NUCLEAR FACILITIES**

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



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

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

## CASELOAD PROJECTIONS

NEXT UPDATE: OCTOBER 1980

\*DATA AS OF: FEBRUARY 1980

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

<<<< REACTORS >>>>

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

<<<< FUEL CYCLE FACILITIES >>>>

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

<<<< OTHER >>>>

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

NOTE: THE FY 1982 PROJECTIONS FOR REACTORS AND FUEL CYCLE FACILITIES ARE BASED ON WRITTEN SURVEYS CONDUCTED BY THE OFFICES OF NRR AND 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 1983-1986 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 1982-86", MARCH 1980

\*\*124 GWE

## STATUS OF NUCLEAR POWER PLANTS

| RWR | PWR | OTHERS | TOTAL      |
|-----|-----|--------|------------|
| 25  | 41  | 1      | <b>67</b>  |
|     | 3   |        | <b>3</b>   |
| 28  | 57  |        | <b>85</b>  |
| 5   | 6   |        | <b>11</b>  |
| 58  | 107 | 1      | <b>166</b> |
|     |     | THTGR  |            |

### STATUS OF NUCLEAR POWER REACTORS UNDER NRC PURVIEW - APR. 30, 1980 SOURCE: OFFICE OF MANAGEMENT & PROGRAM ANALYSIS

| Number<br>Of Units   | Capacity*<br>(MWe) |
|--|--------------------|
| **67 LICENSED TO OPERATE .....   | 49,000             |
| (Excludes 3 which have operating licenses but are shut down indefinitely - Three Mile Island 2, Humboldt Bay, and Indian Point 1)  |                    |
| 3 LICENSED FOR LOW-POWER TESTING .....   | 3,000              |
| 85 CONSTRUCTION PERMIT GRANTED .....   | 94,000             |
| 34 Under Operating License Review ..... 37,000<br>51 Operating License Not Yet Applied For ..... 57,000<br>(Excludes 3 which have been denied certification by the N.Y. State Siting Board - Sterling 1 and Jamesport 1 & 2) |                    |
| 11 UNDER CONSTRUCTION PERMIT REVIEW .....  | 14,000             |
| (Excludes 3 which are indefinitely postponed - Montague 1 & 2, and Clinch River; and 2 which have been denied certification by the N.Y. State Siting Board - New Haven 1 & 2)  |                    |
| 166 TOTAL .....  | 159,000***         |

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

\*\*The 67 units have accumulated 463 reactor years of operation. An additional 56 reactor years of operation have been accumulated by permanently or indefinitely shut down units.

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

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

NP1-50

### ACTIVE AND PENDING APPLICATIONS FOR CENTRAL STATION NUCLEAR POWER PLANTS AND SPECIAL PROJECTS APRIL 30, 1980

|  | NO. OF<br>APPLICATIONS | NO. OF UNITS |
|--|------------------------|--------------|
| A. OPERATING LICENSES -<br>LICENSED FOR LOW POWER TESTING                |                        | 67<br>3      |
| B. UNDER OPERATING LICENSE REVIEW  | 21                     | 34           |
| C. UNDER CONSTRUCTION BUT OPERATING<br>LICENSE APPLICATIONS NOT ACCEPTED | 26                     | 51           |
| D. UNDER CONSTRUCTION PERMIT REVIEW                                      | 8                      | 11           |
| E. SPECIAL PROJECTS  | 25                     | --           |
| F. PRELIMINARY FOREIGN APPROVALS ISSUED                                  | --                     | --           |
| G. FACILITY CANCELLATIONS  | 22                     | 38           |

NOTE: LWA'S HAVE BEEN ISSUED FOR 2 UNITS CURRENTLY UNDER REVIEW FOR CONSTRUCTION PERMITS.

# LICENSED TO OPERATE

## A. LICENSED TO OPERATE

|  | DATE OF ISSUANCE<br>OF FULL POWER<br>LICENSE |
|--|--|
| 1. COMMONWEALTH EDISON CO.<br>DRESDEN 1 (BWR)                  | 06/02/60 POL                                 |
| 2. YANKEE ATOMIC POWER CO.<br>YANKEE-ROWE (PWR)                | 10/14/60 FTL<br>07/29/60 POL<br>06/23/61 FTL |
| 3. CONSUMERS POWER CO.<br>BIG ROCK POINT (BWR)                 | 08/30/62 POL<br>05/01/64 FTL                 |
| 4. SOUTHERN CALIFORNIA EDISON CO.<br>SAN ONOFRE 1 (PWR)        | 03/27/67 POL*                                |
| 5. CONNECTICUT YANKEE ATOMIC POWER CO<br>HADDAM NECK (PWR)     | 06/30/67 POL<br>12/27/74 FTL                 |
| 6. DAIRYLAND COOPERATIVE POWER<br>LACROSSE (BWR)               | 07/03/67 POL*                                |
| 7. JERSEY CENTRAL POWER & LIGHT CO.<br>OYSTER CREEK 1 (BWR)    | 04/09/69 POL*                                |
| 8. NIAGARA MOHAWK POWER CORP.<br>NINE MILE POINT 1 (BWR)       | 08/22/69 POL<br>12/26/74 FTL                 |
| 9. ROCHESTER GAS & ELECTRIC CORP.<br>R.E. GINNA (PWR)          | 09/19/69 POL*                                |
| 10. COMMONWEALTH EDISON CO.<br>DRESDEN 2 (BWR)                 | 12/22/69 POL*                                |
| 11. CAROLINA POWER & LIGHT CO.<br>H.B. ROBINSON 2 (PWR)        | 09/23/70 FTL                                 |
| 12. NORTHERN STATES POWER CO.<br>MONTICELLO (BWR)              | 01/19/71 POL*                                |
| 13. WISCONSIN-MICHIGAN POWER CO.<br>POINT BEACH 1 (PWR)        | 10/05/70 FTL                                 |
| 14. NORTHEAST NUCLEAR ENERGY CO.<br>MILLSTONE 1 (BWR)          | 10/26/70 POL*                                |
| 15. COMMONWEALTH EDISON CO.<br>DRESDEN 3 (BWR)                 | 03/02/71 FTL                                 |
| 16. COMMONWEALTH EDISON CO.<br>QUAD-CITIES 1 (BWR)             | 12/14/72 FTL                                 |
| 17. CONSUMERS POWER CO.<br>PALISADES (PWR)                     | 10/16/72 POL*                                |
| 18. COMMONWEALTH EDISON CO.<br>QUAD-CITIES 2 (BWR)             | 12/14/72 FTL                                 |
| 19. VIRGINIA ELECTRIC & POWER CO.<br>SURRY 1 (PWR)             | 05/25/72 FTL                                 |
| 20. FLORIDA POWER & LIGHT CO.<br>TURKEY POINT 3 (PWR)          | 07/19/72 FTL                                 |
| 21. BOSTON EDISON CO.<br>PILGRIM 1 (BWR)                       | 09/15/72 FTL                                 |
| 22. VERMONT YANKEE NUCLEAR POWER CORP.<br>VERMONT YANKEE (BWR) | 02/28/73 FTL                                 |
| 23. VIRGINIA ELECTRIC & POWER CO.<br>SURRY 2 (PWR)             | 01/29/73 FTL                                 |
| 24. DUKE POWER CO.<br>OCONEE 1 (PWR)                           | 02/06/73 FTL                                 |
| 25. WISCONSIN-MICHIGAN ELECTRIC CO.<br>POINT BEACH 2 (PWR)     | 03/08/73 FTL                                 |
| 26. FLORIDA POWER & LIGHT CO.<br>TURKEY POINT 4 (PWR)          | 04/10/73 FTL                                 |

## A. LICENSED TO OPERATE

|  | DATE OF ISSUANCE<br>OF FULL POWER<br>LICENSE |
|--|--|
| 27. MAINE YANKEE ATOMIC POWER CO.<br>MAINE YANKEE (PWR)    | 06/29/73 FTL                                 |
| 28. TENNESSEE VALLEY AUTHORITY<br>BROWNS FERRY 1 (BWR)     | 12/20/73 FTL                                 |
| 29. OMAHA PUBLIC POWER DISTRICT<br>FT. CALHOUN 1 (PWR)     | 08/09/73 FTL                                 |
| 30. CONSOLIDATED EDISON CO.<br>INDIAN POINT 2 (PWR)        | 09/28/73 FTL                                 |
| 31. DUKE POWER CO.<br>OCONEE 2 (PWR)                       | 10/06/73 FTL                                 |
| 32. COMMONWEALTH EDISON CO.<br>ZION 1 (PWR)                | 10/19/73 FTL                                 |
| 33. PHILADELPHIA ELECTRIC CO.<br>PEACH BOTTOM 2 (BWR)      | 10/25/73 FTL                                 |
| 34. COMMONWEALTH EDISON CO.<br>ZION 2 (PWR)                | 11/14/73 FTL                                 |
| 35. NORTHERN STATES POWER CO.<br>PRAIRIE ISLAND 1 (PWR)    | 04/05/74 FTL                                 |
| 36. PUBLIC SERVICE CO. OF COLORADO<br>FT ST VRAIN (HYGR)   | 12/21/73 FTL                                 |
| 37. WISCONSIN PUBLIC SERVICE CORP.<br>KEWAUNEE (PWR)       | 12/21/73 FTL                                 |
| 38. NEBRASKA PUBLIC POWER DISTRICT<br>COOPER STATION (BWR) | 01/18/74 FTL                                 |
| 39. IOWA ELECTRIC LIGHT & POWER CO.<br>ARNOLD (BWR)        | 02/22/74 FTL                                 |
| 40. METROPOLITAN EDISON CO.<br>THREE MILE ISLAND 1 (PWR)   | 04/19/74 FTL                                 |
| 41. ARKANSAS POWER & LIGHT CO.<br>ARKANSAS 1 (PWR)         | 05/21/74 FTL                                 |
| 42. TENNESSEE VALLEY AUTHORITY<br>BROWNS FERRY 2 (BWR)     | 06/28/74 FTL                                 |
| 43. PHILADELPHIA ELECTRIC CO.<br>PEACH BOTTOM 3 (BWR)      | 07/02/74 FTL                                 |
| 44. DUKE POWER CO.<br>OCONEE 3 (PWR)                       | 07/19/74 FTL                                 |
| 45. BALTIMORE GAS & ELECTRIC CO.<br>CALVERT CLIFFS 1 (PWR) | 07/31/74 FTL                                 |
| 46. GEORGIA POWER CO.<br>HATCH 1 (BWR)                     | 08/06/74 FTL                                 |
| 47. SACRAMENTO MUNICIPAL UTIL. DIST.<br>RANCHO SECO (PWR)  | 08/16/74 FTL                                 |
| 48. POWER AUTH. OF THE STATE OF NY<br>FITZPATRICK (BWR)    | 10/17/74 FTL                                 |
| 49. INDIANA & MICHIGAN ELECTRIC CO.<br>COOK 1 (PWR)        | 10/25/74 FTL                                 |
| 50. NORTHERN STATES POWER CO.<br>PRAIRIE ISLAND 2 (PWR)    | 10/29/74 FTL                                 |
| 51. CAROLINA POWER & LIGHT CO.<br>BRUNSWICK 2 (BWR)        | 12/27/74 FTL                                 |
| 52. NORTHEAST NUCLEAR ENERGY CO.<br>MILLSTONE 2 (PWR)      | 08/01/75 FTL                                 |

## LICENSED TO OPERATE

## A. LICENSED TO OPERATE

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

## LICENSED FOR LOW POWER TESTING

|  | LICENSE DATE |
|--|--------------|
| 1. TENNESSEE VALLEY AUTHORITY<br>SEQUOYAH 1            | 02/29/80     |
| 2. PUBLIC SERVICE ELECTRIC & GAS CO.<br>SALEM 2 (PWR)  | 04/18/80     |
| 3. VIRGINIA ELECTRIC & POWER CO.<br>NORTH ANNA 2 (PWR) | 04/11/80     |

## CONSTRUCTION PERMITS GRANTED

## B. UNDER OPERATING LICENSE REVIEW

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

(34 UNITS)

\*HAVE APPLIED FOR A FULL-TERM LICENSE  
\*\*SHUT DOWN INDEFINITELY

POL - PROVISIONAL OPERATING LICENSE  
FTL - FULL-TERM LICENSE  
FLO - FUEL LOADING ONLY

## CONSTRUCTION PERMITS GRANTED

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

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

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

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

\* OL APPLICATION TENDERED

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

NA - PART OF APPLICATION FOR UNIT 1

## UNDER CONSTRUCTION PERMIT REVIEW

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

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

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

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



## SPECIAL PROJECTS

### E. SPECIAL PROJECTS-PENDING\*

|                                | DATE OF APPLICATION         |
|--------------------------------|-----------------------------|
| 1. CESSAR SYSTEM 80            | 10/27/78 (TENDERED)         |
| 2. FLOATING NUCLEAR PLANTS 1-8 | 07/05/73(DOCKETED)          |
| 3. GAS TURBINE HTGR            | 07/31/75(DOCKETED)          |
| 4. GASSAR                      | 02/05/75(DOCKETED)          |
| 5. GIBBSAR/RESAR-414           | 10/15/76(DOCKETED 05/10/77) |
| 6. GAISSAR                     | 02/24/78                    |
| 7. FT. CALHOUN (LESR)          | 01/26/76                    |
| 8. S8G                         | 05/31/77(DOCKETED 06/08/77) |
| 9. SWESSAR/BSAR-205            | 12/22/75(DOCKETED)          |
| 10. WOOD SITE STUDY            | 08/21/75                    |
| 11. BOPSSAR/BSAR-205           | 10/31/77(DOCKETED)          |
| 12. BLI'E HILLS (SITE STUDY)   | 10/31/77                    |
| 13. ESSAR/CESSAR               | 11/23/77(DOCKETED 02/02/78) |
| 14. ESSAR/RESAR-414            | 11/23/77(DOCKETED 03/13/78) |
| 15. ESSAR/BSAR-205             | 11/23/77(DOCKETED 05/19/78) |
| 16. NORTH COAST (ESR)          | 09/00/74                    |
| 17. CARROLL COUNTY (ESR)       | 12/00/78                    |
| 18. FULTON (LESR)              | 01/00/79                    |
| 19. DOUGLAS POINT (LESR)       | 08/00/73                    |
| 20. GESSAR-238 NSSS EXTENSION  | 03/21/78                    |
| 21. GESSAR-251 EXTENSION       | 03/21/78                    |
| 22. SWESSAR/CESSAR EXTENSION   | 03/21/78                    |
| 23. SWESSAR/RESAR-35 EXTENSION | 03/21/78                    |
| 24. BOPSSAR/RESAR-41 EXTENSION | 03/21/78                    |
| 25. BSAR-205 EXTENSION         | 03/21/78                    |

### F. PRELIMINARY DESIGN APPROVALS COMPLETED

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

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

## G. FACILITY CANCELLATIONS

## PLANTS WITH CONSTRUCTION PERMITS

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

## CONSTRUCTION PERMIT REVIEW

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

# SUMMARY OF STANDARDIZATION APPLICATIONS

DATA AS OF MAY 2, 1980

REFERENCE SYSTEMS\*

17 APPLICATIONS

| <u>PROJECT</u>   | <u>APPLICANT</u>       | <u>DOCKET DATE</u> | <u>COMMENTS</u>                          |
|--|------------------------|--------------------|--|
| NUCLEAR STEAM SUPPLY SYSTEM, NUCLEAR ISLANDS & TURBINE ISLANDS |                        |                    |  |
| CESSAR-238 NI  | GENERAL ELECTRIC       | 07/30/73           | NUCLEAR ISLAND. PRELIMINARY DESIGN       |
| BRAUN SAR  | C. F. BRAUN            | 12/21/74           | TURBINE ISLAND MATCHED TO GESSAR-238 NI  |
| CESSAR   | COMBUSTION ENGINEERING | 12/19/73           | NSSS                                     |
| RESAR-41   | WESTINGHOUSE           | 03/11/74           | NSSS                                     |
| B-SAR-241  | BABCOCK & WILCOX       | 05/14/74           | NSSS (WITHDRAWN)                         |
| B-SAR 205  | BABCOCK & WILCOX       | 03/01/76           | NSSS (REPLACES B-SAR-241)                |
| GASSAR   | GENERAL ATOMIC         | 02/05/75           | NSSS                                     |
| GESSAR-251   | GENERAL ELECTRIC       | 02/14/75           | NSSS                                     |
| RESAR-35   | WESTINGHOUSE           | 07/31/75           | NSSS                                     |
| GESSAR-238 NSSS  | GENERAL ELECTRIC       | 10/16/75           | NSSS                                     |
| RESAR-414  | WESTINGHOUSE           | 12/30/76           | NSSS                                     |
| CESSAR   | COMBUSTION ENGINEERING |                    | FDA APPLICATION UNDER ACCEPTANCE REVIEW  |
| STANDARD BALANCE-OF-PLANT (BOP)                                |                        |                    |  |
| ESSAR:   | EBASCO                 |                    |  |
| CESSAR   |                        | 02/02/78           | BOP DESIGN MATCHED TO CESSAR             |
| RESAR-414  |                        | 03/13/78           | BOP DESIGN MATCHED TO RESAR-414          |
| B-SAR-205  |                        | 05/19/78           | BOP DESIGN MATCHED TO B-SAR-205          |
| SWESSAR:   | STONE & WEBSTER        |                    |  |
| RESAR-41   |                        | 06/28/74           | BOP DESIGN MATCHED TO RESAR-41           |
| CESSAR   |                        | 10/21/74           | BOP MATCHED TO CESSAR                    |
| RESAR-35   |                        | 10/02/75           | BOP MATCHED TO RESAR-35                  |
| B-SAR-205  |                        | 12/22/75           | BOP MATCHED TO B-SAR-205                 |
| GIBBSSAR/RESAR-414   | GIBBS & HILL           | 05/09/77           |  |
| BOP-SSAR:  | FLUOR POWER            |                    |  |
| RESAR-41   |                        | 01/27/76           | BOP MATCHED TO RESAR-41                  |
| B-SAR-205  |                        | 10/31/77           | BOP MATCHED TO B-SAR-205                 |
| GAISSAR  | GILBERT/COMMONWEALTH   | 08/21/78           | BOP MATCHED CESSAR, RESAR-414, B-SAR-205 |

\*NSSS AND BOP DESIGNS WHICH ARE REFERENCED BY OTHER APPLICATIONS

# SUMMARY OF STANDARDIZATION APPLICATIONS

Continued From Previous Page

UTILITY APPLICATIONS USING REFERENCE SYSTEMS    9 ACTIVE APPLICATIONS

THESE APPLICATIONS REFERENCE BOP OR N555 STANDARD DESIGN REVIEWS, IN ORDER TO AVOID REPETITIOUS REVIEW.

| PROJECT            | APPLICANT                             | DOCKET DATE | COMMENTS                      |
|--------------------|---------------------------------------|-------------|-------------------------------|
| CHEROKEE 1-3       | DUKE POWER                            | 05/24/74    | REFERENCES CESSAR.            |
| PERKINS 1-3        | DUKE POWER                            | 05/24/74    | REFERENCES CESSAR.            |
| SOUTH TEXAS 1 & 2  | HOUSTON LIGHT & POWER                 | 07/05/74    | REFERENCES RESAR-41.          |
| WPPSS 3 & 5        | WASHINGTON PUBLIC POWER SUPPLY SYSTEM | 08/02/74    | REFERENCES CESSAR.            |
| PALO VERDE 1-3     | ARIZONA PUBLIC SERVICE                | 10/07/74    | REFERENCES CESSAR.            |
| HARTSVILLE 1-4     | TENNESSEE VALLEY AUTHORITY            | 11/22/74    | REFERENCES GESSAR-238 (NI).   |
| BLACK FOX 1 & 2    | PUBLIC SERVICE OF OKLAHOMA            | 12/23/75    | REFERENCES GESSAR-238 (N555). |
| 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.            |

### DUPLICATE PLANTS

7 ACTIVE APPLICATIONS

|                 |   |          |                                   |
|-----------------|---|----------|-----------------------------------|
| BYRON 1 & 2     | COMMONWEALTH EDISON                                 | 09/20/73 | TWO UNITS AT EACH OF TWO SITES.   |
| BRAIDWOOD 1 & 2 |   | 09/20/73 |                                   |
| SHUPPS          |   |          | 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 |                                   |
| STERLING        | ROCHESTER GAS & ELECTRIC                            | 06/21/74 |                                   |
| CHEROKEE 1-3    | DUKE POWER  | 05/24/74 | THREE UNITS AT EACH OF TWO SITES. |
| PERKINS 1-3     |   | 05/24/74 |                                   |

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

### REPLICATION

2 ACTIVE 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  |

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. |
|----------------------------------|-----------------------|----------|----------------------|

## OPERATING LICENSES ISSUED

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

MAY 2, 1980

## OPERATING LICENSES ISSUED

PAGE: 2

| PLANT                      | FSAR<br>DOCKET<br>DATE | ER<br>DOCKET<br>DATE | INITIAL<br>LICENSE | FULL ★<br>POWER<br>LICENSE | ELAPSED <sup>(1)</sup><br>MONTHS TO<br>INITIAL<br>LICENSE | ELAPSED ★ <sup>(2)</sup><br>MONTHS TO<br>FULL POWER<br>LICENSE | LICENSE<br>NUMBER |
|----------------------------|------------------------|----------------------|--------------------|----------------------------|---|--|-------------------|
| 50. THREE MILE ISLAND 1    | 03-02-70               | 10-01-70             | 04-19-74           | 06-24-74                   | 49.5  | 51.7   | DPR-50            |
| 51. ARKANSAS 1             | 04-26-71               | 11-05-71             | 05-21-74           | 05-21-74                   | 36.8  | 36.8   | DPR-51            |
| 52. BROWNS FERRY 2         | 09-25-70               | N/A                  | 06-28-74           | 08-02-74                   | 45.1  | 46.2   | DPR-52            |
| 53. PEACH BOTTOM 3         | 08-31-70               | 11-08-71             | 07-02-74           | 07-02-74                   | 46.0  | 46.0   | DPR-56            |
| 54. OCONEE 3               | 06-02-69               | 10-18-71             | 07-19-74           | 07-19-74                   | 61.5  | 61.5   | DPR-55            |
| 55. CALVERT CLIFFS 1       | 01-04-71               | 11-08-71             | 07-31-74           | 07-31-74                   | 42.9  | 42.9   | DFR-53            |
| 56. HATCH 1                | 03-22-71               | 02-17-71             | 08-06-74           | 10-13-74                   | 40.4  | 42.7   | DPR-57            |
| 57. RANCHO SECO 1          | 04-29-71               | 11-15-72             | 08-16-74           | 08-16-74                   | 39.5  | 39.5   | DPR-54            |
| 58. FITZPATRICK            | 06-04-71               | 05-22-71             | 10-17-74           | 10-17-74                   | 40.4  | 40.4   | DPR-59            |
| 59. COOK 1                 | 02-02-71               | 11-08-71             | 10-25-74           | 10-25-74                   | 44.7  | 44.7   | DFR-58            |
| 60. PRAIRIE ISLAND 2       | 02-01-71               | 05-17-71             | 10-29-74           | 10-29-74                   | 44.9  | 44.9   | DPR-60            |
| 61. BRUNSWICK 2            | 10-03-72               | 11-08-71             | 12-27-74           | 12-27-74                   | 26.8  | 26.8   | DPR-62            |
| 62. MILLSTONE 2            | 08-14-72               | 11-15-71             | 08-01-75           | 09-30-75                   | 35.5  | 37.5   | DFR-65            |
| 63. TROJAN                 | 02-09-73               | 05-29-70             | 11-21-75           | 11-21-75                   | 33.4  | 33.4   | NPF-1             |
| 64. INDIAN POINT 3         | 12-04-70               | 11-13-73             | 12-12-75           | 04-05-76                   | 60.2  | 64.0   | DPR-64            |
| 65. BEAVER VALLEY 1        | 10-18-72               | 01-05-72             | 01-30-76           | 07-02-76                   | 39.4  | 44.4   | DPR-66            |
| 66. ST LUCIE 1             | 03-05-73               | 01-06-72             | 03-01-76           | 03-01-76                   | 35.8  | 35.8   | DPR-67            |
| 67. BROWNS FERRY 3         | 09-25-70               | 09-25-70             | 07-02-76           | 08-18-76                   | 69.2  | 70.7   | DPR-68            |
| 68. CALVERT CLIFFS 2       | 01-04-71               | 11-08-71             | 08-13-76           | 11-30-76                   | 67.3  | 70.8   | DPR-69            |
| 69. SALEM 1                | 08-25-71               | 11-08-71             | 08-13-76           | 12-01-76                   | 59.6  | 63.2   | DPR-70            |
| 70. BRUNSWICK 1            | 10-03-72               | 11-08-71             | 09-08-76           | 11-12-76                   | 47.1  | 49.3   | DFR-71            |
| 71. NORTH ANNA 1           | 05-02-73               | 03-15-72             | 11-26-76           | 04-01-78                   | 42.8  | 58.9   | NPF-4             |
| 72. DAVIS-BESSE 1          | 03-31-73               | 01-04-73             | 04-22-77           | 04-22-77                   | 48.7  | 48.7   | NPF-3             |
| 73. FARLEY 1               | 08-30-73               | 08-30-73             | 06-25-77           | 06-25-77                   | 45.8  | 45.8   | NPF-2             |
| 74. CRYSTAL RIVER 3        | 02-08-71               | 01-03-72             | 12-03-77           | 01-28-77                   | 81.8  | 71.6   | DPR-72            |
| 75. COOK 2                 | 02-01-71               | 11-08-71             | 12-23-77           | 12-23-77                   | 82.7  | 82.7   | DPR-74            |
| 76. THREE MILE ISLAND 2 ** | 04-04-74               | 04-16-75             | 02-08-78           | 02-08-78                   | 46.1  | 46.1   | DPR73             |
| 77. HATCH 2                | 10-31-75               | 10-31-75             | 06-13-78           | 06-13-78                   | 31.4  | 31.4   | NPF-5             |
| 78. ARKANSAS 2             | 04-17-74               | 04-17-74             | 07-18-78           | 12-14-78                   | 51.0  | 55.9   | NPF-6             |
| (3)79. SEQUOYAH 1          | 01-31-74               | N/A                  | 02-29-80           | N/A                        | 72.1  | N/A  | DPR-77            |
| (3)80. NORTH ANNA 2        | 05-02-73               | 03-15-72             | 04-11-80           | N/A                        | 83.3  | N/A  | NPF-7             |
| (3)81. SALEM 2             | 08-25-71               | 07-02-71             | 04-18-80           | N/A                        | 103.9   | N/A  | DPR-75            |

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

★ Over 50% of rated power

LICENSED TO OPERATE 67

\*LICENSES TERMINATED 6

\*\*SHUTDOWN 5

(3) LICENSED FOR LOW POWER TESTING 3

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

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

(3) Restricted to 5% power.

Since 1959, 81 Operating Licenses have been issued.

# CONSTRUCTION PERMITS ISSUED

| DOCKET NUMBER | FACILITY NAME                     | PSAR DOCKET DATE | ER DOCKET DATE | CP ISSUED | ELAPSED MONTHS <sup>(1)</sup> | CONSTRUCTION PERMIT NUMBER |
|---------------|-----------------------------------|------------------|----------------|-----------|-------------------------------|----------------------------|
| 050-00010     | (LIC) DRESDEN 1 (0200)            | 04/01/55C        | N/A            | 05/04/56C | 13.1                          | CPPR-2                     |
| 050-00003     | (LIC) INDIAN POINT 1 (0265)       | 04/02/55C        | N/A            | 05/04/56C | 13.0                          | CPPR-1                     |
| 050-00016     | (WD) ENRICO FERMI 1 (0061)        | 01/07/56C        | N/A            | 08/07/56C | 6.9                           | CPPR-4                     |
| 050-00029     | (LIC) YANKEE-ROWE 1 (0175)        | 07/09/56C        | N/A            | 11/04/57C | 15.8                          | CPPR-5                     |
| 115-00001     | (WD) ELK RIVER (0022)             | 03/15/59C        | N/A            | 01/09/60C | 9.8                           | CAPR-1                     |
| 115-00002     | (WD) PIQUA (0011)                 | 04/13/59C        | N/A            | 01/28/60C | 9.5                           | CAPR-2                     |
| 050-00144     | (WD) CVTR (0017)                  | 07/09/59C        | N/A            | 05/04/60C | 9.8                           | CPPR-7                     |
| 050-00130     | (WD) PATHFINDER (0058)            | 04/01/59C        | N/A            | 05/12/60C | 13.3                          | CPPR-8                     |
| 050-00155     | (LIC) BIG ROCK POINT 1 (0075)     | 01/18/60C        | N/A            | 05/31/60C | 4.4                           | CPPR-9                     |
| 115-00003     | (WD) HALLAM (0075)                | 02/15/59C        | N/A            | 06/28/60C | 16.4                          | CAPR-3                     |
| 115-00004     | (WD) BONUS (0017)                 | 12/15/59C        | N/A            | 07/19/60C | 7.1                           | CAPR-4                     |
| 050-00133     | (LIC) HUMBOLDT BAY (0065)         | 04/30/59C        | N/A            | 11/09/60C | 18.3                          | CPPR-10                    |
| 050-00171     | (WD) PEACH BOTTOM 1 (0040)        | 07/25/60C        | N/A            | 02/23/62C | 18.9                          | CPPR-12                    |
| 050-00409     | (FTL) LA CROSSE (0050)            | 11/05/62C        | N/A            | 03/29/63C | 4.8                           | CAPR-5                     |
| 050-00206     | (FTL) SAN ONOFRE 1 (0430)         | 02/04/63C        | N/A            | 03/02/64C | 12.9                          | CPPR-13                    |
| 050-00213     | (LIC) HADDAM NECK (0575)          | 09/09/63C        | N/A            | 05/26/64C | 8.5                           | CPPR-14                    |
| 050-00219     | (FTL) OYSTER CREEK 1 (0640)       | 03/30/64C        | N/A            | 12/15/64C | 8.5                           | CPPR-15                    |
| 050-00220     | (LIC) NINE MILE POINT 1 (0610)    | 04/01/64C        | N/A            | 04/12/65C | 12.3                          | CPPR-16                    |
| 050-00237     | (FTL) DRESDEN 2 (0809)            | 04/15/55C        | N/A            | 01/10/66C | 8.8                           | CPPR-18                    |
| 050-00244     | (FTL) GINNA (0490)                | 11/01/65C        | N/A            | 04/25/66C | 5.8                           | CPPR-19                    |
| 050-00245     | (FTL) MILLSTONE 1 (0652)          | 11/15/65C        | N/A            | 05/19/66C | 6.1                           | CPPR-20                    |
| 050-00247     | (LIC) INDIAN POINT 2 (0873)       | 12/06/65C        | N/A            | 10/14/66C | 10.2                          | CPPR-21                    |
| 050-00249     | (LIC) DRESDEN 3 (0809)            | 02/10/66C        | N/A            | 10/14/66C | 8.1                           | CPPR-22                    |
| 050-00254     | (LIC) QUAD CITIES 1 & 2 (0800)    | 05/31/66C        | N/A            | 02/15/67C | 8.4                           | CPPR-23&24                 |
| 050-00255     | (FTL) PALISADES (0700)            | 06/03/66C        | N/A            | 03/14/67C | 9.3                           | CPPR-25                    |
| 050-00261     | (FTL) ROBINSON 2 (0700)           | 07/25/66C        | N/A            | 04/13/67C | 8.6                           | CPPR-26                    |
| 050-00250     | (LIC) TURKEY POINT 3 & 4 (0646)   | 03/28/66C        | N/A            | 04/27/67C | 12.9                          | CPPR-27&28                 |
| 050-00259     | (LIC) BROWNS FERRY 1 & 2 (1067)   | 07/13/66C        | N/A            | 05/10/67C | 9.9                           | CPPR-29&30                 |
| 050-00263     | (FTL) MONTICELLO (0545)           | 08/08/66C        | N/A            | 06/19/67C | 10.3                          | CPPR-31                    |
| 050-00266     | (LIC) POINT BEACH 1 (0497)        | 08/31/66C        | N/A            | 07/19/67C | 10.6                          | CPPR-32                    |
| 050-00269     | (LIC) O'CONNOR 1, 2 & 3 (0871)    | 12/01/66C        | N/A            | 11/06/67C | 11.1                          | CPPR-33, 34&35             |
| 050-00271     | (LIC) VERMONT YANKFE 1 (0514)     | 12/02/66C        | N/A            | 12/11/67C | 12.3                          | CPPR-36                    |
| 050-00277     | (LIC) PEACH BOTTOM 2 & 3 (1065)   | 02/13/67C        | N/A            | 01/31/68C | 11.6                          | CPPR-37&38                 |
| 050-00275     | (DL) DIABLO CANYON 1 (1084)       | 01/18/67C        | N/A            | 04/23/68C | 15.1                          | CPPR-39                    |
| 050-00289     | (LIC) THREE MILE ISLAND 1 (0819)  | 05/03/67C        | N/A            | 05/18/68C | 12.5                          | CPPR-40                    |
| 050-00298     | (LIC) COOPER STATION (0778)       | 07/27/67C        | N/A            | 06/04/68C | 10.2                          | CPPR-42                    |
| 050-00285     | (LIC) FORT CALHOUN 1 (0457)       | 04/18/67C        | N/A            | 06/07/68C | 13.6                          | CPPR-41                    |
| 050-00280     | (LIC) SURRY 1 & 2 (0788)          | 03/20/67C        | N/A            | 06/25/68C | 5.1                           | CPPR-43&44                 |
| 050-00282     | (LIC) PRAIRIE ISLAND 1 & 2 (0530) | 04/07/67C        | N/A            | 06/25/68C | 14.6                          | CPPR-45&46                 |
| 050-00301     | (LIC) POINT BEACH 2 (0497)        | 08/03/67C        | N/A            | 07/25/68C | 11.7                          | CPPR-47                    |
| 050-00296     | (LIC) BROWNS FERRY 3 (1067)       | 07/17/67C        | N/A            | 07/31/68C | 12.4                          | CPPR-48                    |
| 050-00305     | (LIC) KEWAUNEE (0541)             | 08/23/67C        | N/A            | 08/06/68C | 11.4                          | CPPR-50                    |
| 050-00293     | (LIC) PILGRIM 1 (0670)            | 06/30/67C        | N/A            | 08/26/68C | 13.8                          | CPPR-49                    |
| 050-00267     | (LIC) FORT ST VRAIN (0330)        | 10/20/66C        | N/A            | 09/17/68C | 22.9                          | CPPR-54                    |
| 050-00272     | (LIC) SALEM 1 & 2 (1090)          | 12/13/66C        | N/A            | 09/25/68C | 21.4                          | CPPR-52&53                 |
| 050-00302     | (LIC) CRYSTAL RIVER 3 (0825)      | 08/10/67C        | N/A            | 09/25/68C | 13.5                          | CPPR-51                    |
| 050-00312     | (LIC) RANCHO SECO 1 (0913)        | 11/20/67C        | N/A            | 10/11/68C | 10.7                          | CPPR-56                    |
| 050-00309     | (LIC) MAINE YANKEE (0790)         | 09/27/67C        | N/A            | 10/21/68C | 12.8                          | CPPR-55                    |
| 050-00313     | (LIC) ARKANSAS 1 (0850)           | 11/29/67C        | N/A            | 12/06/68C | 12.2                          | CPPR-57                    |
| 050-00295     | (LIC) ZION 1 & 2 (1050)           | 07/12/67C        | N/A            | 12/26/68C | 17.4                          | CPPR-58&59                 |
| 050-00315     | (LIC) COOK 1 & 2 (1060)           | 12/20/67C        | N/A            | 03/25/69C | 15.1                          | CPPR-60&61                 |
| 050-00317     | (LIC) CALVERT CLIFFS 1 & 2 (0845) | 01/25/68C        | N/A            | 07/07/69C | 17.4                          | CPPR-63&64                 |
| 050-00286     | (LIC) INDIAN POINT 3 (0965)       | 04/26/67C        | N/A            | 08/13/69C | 27.5                          | CPPR-62                    |
| 050-00321     | (LIC) HATCH 1 (0786)              | 05/06/68C        | N/A            | 09/30/69C | 16.8                          | CPPR-65                    |
| 050-00320     | (LIC) THREE MILE ISLAND 2 (0906)  | 04/29/68C        | N/A            | 11/04/69C | 18.1                          | CPPR-66                    |
| 050-00324     | (LIC) BRUNSWICK 1 & 2 (0821)      | 07/31/68C        | N/A            | 02/07/70C | 18.2                          | CPPR-67&68                 |

(CONTINUED ON NEXT PAGE)

## CONSTRUCTION PERMITS ISSUED

| DOCKET NUMBER | FACILITY NAME                       | PSAR DOCKET DATE | ER DOCKET DATE | CP ISSUED | ELAPSED MONTHS | CONSTRUCTION PERMIT NUMBER |
|---------------|-------------------------------------|------------------|----------------|-----------|----------------|----------------------------|
| 050-00333     | (LIC) FITZPATRICK (0821)            | 12/31/68C        | N/A            | 05/20/70C | 16.6           | CPPR-71                    |
| 050-00327     | (LIC) SEQUOYAH 1 & 2 (1148)         | 10/15/68C        | N/A            | 05/27/70C | 19.4           | CPPR-72&73                 |
| 050-00331     | (LIC) DUANE ARNOLD (0535)           | 11/04/68C        | N/A            | 06/22/70C | 19.6           | CPPR-70                    |
| 050-00334     | (LIC) BEAVER VALLEY 1 (0852)        | 01/15/69C        | N/A            | 06/26/70C | 17.3           | CPPR-75                    |
| 050-00335     | (LIC) ST LUCIE 1 (0907)             | 01/29/69C        | N/A            | 07/01/70C | 17.0           | CPPR-74                    |
| 050-00323     | (OL) DIABLO CANYON 2 (1106)         | 07/01/68C        | N/A            | 12/09/70C | 29.2           | CPPR-69                    |
| 050-00336     | (LIC) MILLSTONE 2 (0828)            | 02/28/69C        | N/A            | 12/11/70C | 21.4           | CPPR-76                    |
| 050-00344     | (LIC) TROJAN (1130)                 | 06/25/69C        | N/A            | 02/08/71C | 19.4           | CPPR-79                    |
| 050-00338     | (LIC) NORTH ANNA 1 (0907)           | 03/21/69C        | N/A            | 02/19/71C | 22.9           | CPPR-77&78                 |
| 050-00346     | (LIC) DAVIS-BESSE 1 (0906)          | 08/01/69C        | N/A            | 03/24/71C | 19.7           | CPPR-80                    |
| 050-00348     | (LIC) FARLEY 1 & 2 (0829)           | 10/15/69C        | 09/11/70C      | 08/16/72C | 34.0           | CPPR-85&86                 |
| 050-00341     | (OL) ENRICO FERMI 2 (1093)          | 04/29/69C        | 09/16/70C      | 09/27/72C | 40.9           | CPPR-87                    |
| 050-00358     | (OL) ZIMMER 1 (0810)                | 04/06/70C        | 06/22/71C      | 10/27/72C | 30.7           | CPPR-88                    |
| 050-00368     | (LIC) ARKANSAS 2 (0912)             | 09/17/70C        | 09/17/70C      | 12/06/72C | 26.6           | CPPR-89                    |
| 050-00329     | (OL) MIDLAND 1 & 2 (0458)           | 10/30/68C        | 07/27/70C      | 12/15/72C | 49.5           | CPPR-81&82                 |
| 050-00366     | (LIC) HATCH 2 (0795)                | 09/11/70C        | 02/15/71C      | 12/27/72C | 27.5           | CPPR-90                    |
| 050-00390     | (OL) WATTS BAR 1 & 2 (1177)         | 05/18/71C        | 05/18/71C      | 01/23/73C | 20.1           | CPPR-91&92                 |
| 050-00369     | (OL) MCGUIRE 1 & 2 (1180)           | 03/18/70C        | 03/09/71C      | 02/23/73C | 29.1           | CPPR-83&84                 |
| 050-00397     | (OL) WASHINGTON NUCLEAR 2 (1100)    | 08/19/71C        | 08/18/71C      | 03/19/73C | 19.0           | CPPR-93                    |
| 050-00395     | (OL) SUMMER 1 (0900)                | 06/30/71C        | 06/30/71C      | 03/21/73C | 20.7           | CPPR-94                    |
| 050-00322     | (OL) SHOREHAM (0819)                | 05/15/68C        | 06/10/70C      | 04/14/73C | 58.9           | CPPR-95                    |
| 050-00363     | (PCP) FORKED RIVER (1070)           | 06/01/70C        | 01/15/72C      | 07/10/73C | 37.3           | CPPR-96                    |
| 050-00373     | (OL) LASALLE 1 & 2 (1078)           | 11/03/70C        | 11/03/70C      | 09/10/73C | 34.2           | CPPR-99&100                |
| 050-00361     | (OL) SAN ONOFRE 2 & 3 (1100)        | 06/01/70C        | 01/03/72C      | 10/18/73C | 40.5           | CPPR-97&98                 |
| 050-00387     | (OL) SUSQUEHANNA 1 & 2 (1050)       | 04/01/71C        | 04/01/71C      | 11/02/73C | 31.0           | CPPR-101&102               |
| 050-00367     | (PCP) BAILLY 1 (0645)               | 08/24/70C        | 03/24/71C      | 05/01/74C | 44.2           | CPPR-104                   |
| 050-00412     | (PCP) BEAVER VALLEY 2 (0852)        | 10/20/72C        | 10/20/72C      | 05/03/74C | 18.4           | CPPR-105                   |
| 050-00352     | (PCP) LIMERICK 1 & 2 (1065)         | 02/27/70C        | 10/30/70C      | 06/19/74C | 51.7           | CPPR-106&107               |
| 050-00410     | (PCP) NINE MILE POINT 2 (1100)      | 06/15/72C        | 06/15/72C      | 06/24/74C | 24.3           | CPPR-112                   |
| 050-00424     | (PCP) VOGTLE 1,2,3,4 (1113)         | 02/13/73C        | 02/13/73C      | 06/28/74C | 16.5           | CPPR-108, 109, 110, 111    |
| 050-00404     | (PCP) NORTH ANNA 3 & 4 (0907)       | 09/15/71C        | 03/15/72C      | 07/26/74C | 34.3           | CPPR-114&115               |
| 050-00423     | (PCP) MILLSTONE 3 (1156)            | 02/10/73C        | 02/10/73C      | 08/09/74C | 17.9           | CPPR-113                   |
| 050-00416     | (OL) GRAND GULF 1 & 2 (1250)        | 11/17/72C        | 11/17/72C      | 09/04/74C | 21.5           | CPPR-118&119               |
| 050-00354     | (PCP) HOPE CREEK 1 & 2 (1067)       | 02/27/70C        | 01/28/71C      | 11/04/74C | 56.2           | CPPR-120&121               |
| 050-00382     | (OL) WATERFORD 3 (1113)             | 12/19/70C        | 01/15/71C      | 11/14/74C | 46.8           | CPPR-103                   |
| 050-00445     | (OL) COMANCHE PEAK 1 & 2 (1150)     | 07/20/73C        | 07/20/73C      | 12/19/74C | 16.9           | CPPR-126&127               |
| 050-00434     | (WD) SURRY 3 & 4 (0859)             | 05/29/73C        | 09/14/73C      | 12/20/74C | 18.7           | CPPR-124&125               |
| 050-00438     | (OL) BELLEFONTE 1 & 2 (1213)        | 06/21/73C        | 06/21/73C      | 12/24/74C | 18.1           | CPPR-122&123               |
| 050-00413     | (OL) CATAWBA 1 & 2 (1153)           | 10/27/72C        | 10/27/72C      | 08/07/75C | 33.3           | CPPR-116&117               |
| 050-00498     | (OL) SOUTH TEXAS 1 & 2 (1250)       | 07/05/74C        | 07/05/74C      | 12/22/75C | 17.5           | CPPR-128&129               |
| 050-00460     | (PCP) WASHINGTON NUCLEAR 1 (1218)   | 10/18/73C        | 08/20/73C      | 12/24/75C | 28.1           | CPPR-134                   |
| 050-00456     | (OL) BRAIDWOOD 1 & 2 (1120)         | 09/20/73C        | 09/20/73C      | 12/31/75C | 27.3           | CPPR-132&133               |
| 050-00454     | (OL) BYRON 1 & 2 (1120)             | 09/20/73C        | 09/20/73C      | 12/31/75C | 27.3           | CPPR-130&131               |
| 050-00461     | (PCP) CLINTON 1 & 2 (0933)          | 10/30/73C        | 10/30/73C      | 02/24/76C | 27.8           | CPPR-137&138               |
| 050-00483     | (PCP) CALLAWAY 1 & 2 (1120)         | 06/21/74C        | 07/30/74C      | 04/16/76C | 21.8           | CPPR-139&140               |
| 050-00528     | (PCP) PALO VERDE 1,2,3 (1238)       | 10/07/74C        | 10/07/74C      | 05/25/76C | 19.6           | CPPR-141, 142&143          |
| 050-00443     | (PCP) SEABROOK 1 & 2 (1200)         | 07/09/73C        | 07/09/73C      | 07/07/76C | 35.9           | CPPR-135&136               |
| 050-00458     | (PCP) RIVER BEND 1 & 2 (0934)       | 09/24/73C        | 09/24/73C      | 03/25/77C | 42.1           | CPPR-145&146               |
| 050-00389     | (PCP) ST LUCIE 2 (0812)             | 05/15/73C        | 08/31/73C      | 05/02/77C | 47.5           | CPPR-144                   |
| 050-00440     | (PCP) PERRY 1 & 2 (1205)            | 06/25/73C        | 06/25/73C      | 05/03/77C | 46.2           | CPPR-148&149               |
| 050-00518     | (PCP) HARTSVILLE A1,A2,B1,B2 (1233) | 11/22/74C        | 09/13/74C      | 05/09/77C | 31.8           | CPPR-150, 151, 152, 153    |
| 050-00482     | (PCP) WOLF CREEK 1 (1150)           | 07/26/74C        | 05/17/74C      | 05/17/77C | 36.0           | CPPR-147                   |
| 050-00485     | (PCP) STERLING 1 (1150)             | 06/21/74C        | 12/20/74C      | 09/01/77C | 38.3           | CPPR-156                   |
| 050-00484     | (WD) TYRONE 1 (1150)                | 06/21/74C        | 08/29/74C      | 12/27/77C | 42.2           | CPPR-157                   |
| 050-00491     | (PCP) CHEROKEE 1,2,3 (1280)         | 05/24/74C        | 06/28/74C      | 12/30/77C | 43.2           | CPPR-167, 168, 169         |



# CONSTRUCTION PERMITS ISSUED

| DOCKET NUMBER | FACILITY NAME                       | PSAR DOCKET DATE | ER DOCKET DATE | CP ISSUED | ELAPSED MONTHS <sup>(1)</sup> | CONSTRUCTION PERMIT NUMBER |
|---------------|-------------------------------------|------------------|----------------|-----------|-------------------------------|----------------------------|
| 050-00553     | (PCP) PHIPPS BEND 1 & 2 (1233)      | 11/07/75C        | 04/01/76C      | 01/16/78C | 26.3                          | CPPR-162, 163              |
| 050-00400     | (PCP) HARRIS 1,2,3,4 (0900)         | 09/17/71C        | 09/07/71C      | 01/27/78C | 76.6                          | CPPR-158, 159, 160, 161    |
| 050-00513     | (PCP) WASHINGTON NUCLEAR 4 (1218)   | 10/18/73C        | 08/20/73C      | 02/21/78C | 54.0                          | CPPR-174                   |
| 050-00546     | (PCP) MARBLE HILL 1 & 2 (1130)      | 09/17/75C        | 09/11/75C      | 04/04/78C | 30.7                          | CPPR-170, 171              |
| 050-00508     | (PCP) WASHINGTON NUCLEAR 3&5 (1242) | 08/02/74C        | 09/30/74C      | 04/11/78C | 44.3                          | CPPR-154, 155              |
| 050-00566     | (PCP) YE:LOW CREEK 1 & 2 (1300)     | 07/16/76C        | 12/20/76C      | 11/29/78C | 28.4                          | CPPR-172, 173              |
| 050-00516     | (PCP) JAMESPORT 1 & 2 (1150)        | 09/06/74C        | 09/17/74C      | 01/04/79C | 51.9                          | CPPR-175, 176              |

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

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

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

118 APPLICATIONS

SINCE 1955, 174 UNITS HAVE BEEN GRANTED CONSTRUCTION PERMITS.

# LIMITED WORK AUTHORIZATIONS ISSUED

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

DATA AS OF: MAY 2, 1980

|     | APPLICATION         | ER DOCKETED | LWA-1 ISSUED | ELAPSED MONTHS | LWA-2 ISSUED | ELAPSED MONTHS |
|-----|---------------------|-------------|--------------|----------------|--------------|----------------|
| 1.  | GRAND GULF 1 & 2    | 11-17-72    | 05-03-74     | 17.5           | 07-14-74     | 41.9           |
| 2.  | WATERFORD           | 01-15-71    | 05-16-74     | 39.9           |              |                |
| 3.  | CATAWBA 1 & 2       | 10-27-72    | 05-16-74     | 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.  | BELLEFRONTE 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    | 09-05-75     | 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     | 23.0           | 07-28-77     | 25.0           |
| 22. | WOLF CREEK          | 06-21-74    | 01-24-77     | 30.3           | 01-24-77     | 30.3           |
| 23. | WPPS 3 & 5          | 09-30-74    | 04-08-77     | 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 & 4 GRANTED AMENDMENT TO LWA ON MAY 10, 1977

# MAJOR LICENSED FUEL CYCLE FACILITIES

UPDATE BIMONTHLY

(LICENSED BY NRC)

DATA AS OF: MAY 9, 1980

| APPLICANT  | LOCATION           | DOCKET NUMBER | LICENSE NUMBER | EXPIRATION DATE    |
|--|--------------------|---------------|----------------|--------------------|
| <b>URANIUM HEXAFLUORIDE (UF<sub>6</sub>) PRODUCTION PLANTS</b> |                    |               |                |                    |
| ALLIED CHEMICAL CORPORATION                                    | METROPOLIS, IL     | 40-3392       | SUB-526        | 08-31-82           |
| KERR-MCGEE CORPORATION   | SEQUOYAH, OK       | 40-8027       | SUB-1010       | 10-31-82           |
| <b>URANIUM FUEL PROCESSING &amp; FABRICATION PLANTS</b>        |                    |               |                |                    |
| 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           |
| BATTELLE P.N. LABORATORIES                                     | RICHLAND, WA       | 70-984        | SNM-942        | 06-30-79**         |
| 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       | 08-31-78*          |
| 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           |
| <b>PLUTONIUM FUEL &amp; FABRICATION PLANTS</b>                 |                    |               |                |                    |
| 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**         |
| 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) |
| <b>FUEL REPROCESSING FACILITIES</b>                            |                    |               |                |                    |
| 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) |
| <b>IRRADIATED FUEL STORAGE FACILITIES</b>                      |                    |               |                |                    |
| GENERAL ELECTRIC   | MORRIS, IL         | 70-1308       | SNM-1265       | 08-31-79**         |
| NUCLEAR FUEL SERVICES, INC.                                    | WEST VALLEY, NY    | 50-201        | SNM-857 (6)    | 04-03-69**         |
| <b>WASTE BURIAL FACILITIES</b>                                 |                    |               |                |                    |
| 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)

\* CLOSE DOWN PROCEDURES - Facility permanently shut down.

\*\* TIMELY RENEWAL - Applicant has tendered application for renewal and may continue to operate while application is being reviewed.

## MAJOR LICENSED FUEL CYCLE FACILITIES

(LICENSED BY NRC)

NRC LICENSED URANIUM MILLS AND OTHER FACILITIES

DATA AS OF: MAY 9, 1980

| APPLICANT                       | LOCATION               | DOCKET NUMBER | LICENSE NUMBER | EXPIRATION DATE |
|---------------------------------|------------------------|---------------|----------------|-----------------|
| U-MILLS                         |                        |               |                |                 |
| ATLAS MINERALS                  | MOAB, UT               | 40-3453       | SUA-917        | 04-30-84        |
| BEAR CREEK URANIUM COMPANY      |                        | 40-8452       | SUA-1310       | 07-31-82        |
| EXXON COMPANY                   | CONVERSE CO., WY       | 40-8064       | SUA-1064       | 08-31-81        |
| FEDERAL-AMERICAN PARTNERS       | RIVERTON, WY           | 40-4492       | SUA-667        | 01-31-76**      |
| PATHFINDER MINES                | GAS HILLS, WY          | 40-2259       | SUA-672        | 01-31-83        |
| 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            | SWEETWATER CO., WY     | 40-8584       | SUA-1350       | 02-16-84        |
| UNITED NUCLEAR MORTON RANCH     | CONVERSE, WY           | 40-8602       | SUA-1356       | 05-09-84        |
| PATHFINDER MINES                | SHIRLEY BASIN, WY      | 40-6622       | SUA-442        | 09-30-82        |
| TENNESSEE VALLEY AUTHORITY      | EDGEMONT, SD           | 40-1341       | SUA-816        | 02-29-76**      |
| ENERGY FUELS NUCLEAR, INC.      | WHITE MESA, UT         | 40-8687       | SUA-1358       | 08-30-84        |
| PLATEAU RESOURCES, LTD.         | BLANDING, UT           | 40-8674       |                | 09-30-84        |
| ENERGY FUELS NUCLEAR, INC.      | HANKSVILLE, UT         | 40-8675       |                | 09-30-84        |
| OTHERS WHICH COME UNDER U-MILLS |                        |               |                |                 |
| CLEVELAND CLIFFS IRON COMPANY   | POWDER RIVER BASIN, WY | 40-8200       | SUA-1199       | 05-31-79**      |
| COTTER CORPORATION              | JOHNSON CO., WY        | 40-8511       | SUA-1273       | 08-31-81        |
| EXXON COMPANY                   | CONVERSE CO., WY       | 40-8102       | SUA-1139       | 07-31-78**      |
| HOLMES AND HARVER, INC.         | ANAHEIM, CA            | 40-8550       | SUA-1307       | 07-31-82        |
| HOMESTAKE MINING COMPANY        | SAN JUAN CO., UT       | 40-8434       | SUA-1249       | 06-30-79**      |
| MINERALS EXPLORATION CO.        | SWEETWATER CO., WY     | 40-8348       | SUA-1223       | 01-31-80        |
| PLATEAU RESOURCES LTD.          | GARFIELD CO., UT       | 40-7869       | SUA-1013       | 09-30-78**      |
| ROCKY MOUNTAIN ENERGY           | CONVERSE CO., WY       | 40-8380       | SUA-1228       | 02-29-80        |
| WYOMING MINERAL CORP.           | JOHNSON CO., WY        | 40-8304       | SUA-1204       | 06-30-79**      |
| WYOMING MINERAL CORP.           | SALT LAKE CO., UT      | 40-8585       | SUA-1315       | 09-30-82        |
| WOLD NUCLEAR                    | SWEETWATER CO., WY     | 40-8636       | SUA-1329       | 04-30-83        |
| NUCLEAR DYNAMICS                | CROOK CO., WY          | 40-8663       | SUA-1331       | 04-30-83        |
| KERR MCGEE NUCLEAR              | CARBON CO., WY         | 40-8586       | SUA-1330       | 04-30-83        |
| OGLE PETROLEUM                  | FREMONT CO., WY        | 40-8693       | SUA-1336       | 08-31-83        |
| J&P CORPORATION                 | JOHNSON CO., WY        | 40-8684       | SUA-1337       | 08-31-83        |
| ROCKY MOUNTAIN ENERGY CO.       | CAMPBELL CO., WY       | 40-8697       | SUA-1338       | 09-30-83        |
| WYOMING MIN IRIGARY             | JOHNSON CO., WY        | 40-8502       | SUA-1341       | 10-31-83        |
| ENERGY RESOURCES                | SAN JUAN, UT           | 40-8707       | SUA-1351       | 03-31-84        |
| CLEVELAND CLIFFS                | CAMPBELL CO., WY       | 40-8714       | SUA-1352       | 06-30-84        |
| BRUSH WELLMAN                   | DELTA, UT              | 40-8722       | SUA-1354       | 06-30-84        |
| ENERGY FUELS NUCLEAR, INC.      | WHITE MESA, UT         | 40-8676       | SUA-1324       | 08-30-84        |
| COTTER CORP.                    | JOHNSON CO. WY         | 40-8692       |                | 09-30-84        |
| TETON EXPLORATION               | CONVERSE CO., WY       | 40-8728       |                | 01-30-85        |
| KERR-MCGEE NUCLEAR              | CONVERSE CO., WY       | 40-8728       |                | 04-30-85        |

\*\* TIMELY RENEWAL - Applicant has tendered application for renewal and may continue to operate while application is being reviewed.

## NUCLEAR STEAM SUPPLY SYSTEM CONTRACTS AWARDED

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

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

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

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

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

GE = GENERAL ELECTRIC  
W = WESTINGHOUSE  
B&W = BABCOCK & WILCOX  
COMB = COMBUSTION ENGINEERING  
GAC = GENERAL ATOMIC CORP.

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

## NEW APPLICATIONS FORECAST

DATA AS OF: MAY 2, 1980

### CONSTRUCTION PERMIT FORECAST

| FY 1980 | FACILITY NAME | UTILITY             | PROJECT NUMBER | APPL. ER SUB. DATE | APPL. PSAR SUB. DATE |
|---------|---------------|---------------------|----------------|--------------------|----------------------|
|         | CARROLL 1 & 2 | COMMONWEALTH EDISON | 559            | 10/00/81           | 10/00/81             |

### OPERATING LICENSE FORECAST

|         | FACILITY               | DOCKET NUMBER | UTILITY                          | APPLICANT SUBMITS PSAR | APPLICANT SUBMITS ENV. RPT. |
|---------|------------------------|---------------|----------------------------------|------------------------|-----------------------------|
|         | PALO VERDE 1,2,3       | 0528-0530     | ARIZONA PUBLIC SERVICE           | 10/05/79C              | 12/05/79C                   |
|         | CALLAWAY 1 & 2         | 0483&0486     | UNION ELECTRIC                   | 10/25/79C              | 10/25/79C                   |
|         | CLINTON 1 & 2          | 0461&0462     | ILLINOIS POWER                   | 12/01/79C              | 12/01/79C                   |
|         | WOLF CREEK 1           | 050-00482     | KANSAS GAS & ELECTRIC            | 02/21/80C              | 02/21/80C                   |
|         | ST LUCIE 2             | 050-00389     | FLORIDA POWER & LIGHT            | 03/24/80C              | 03/24/80C                   |
|         | PERRY 1 & 2            | 0440&0441     | CLEVELAND ELECTRIC ILLUMINATING  | 06/00/80               | 06/00/80                    |
|         | SEABROOK 1 & 2         | 0443&0444     | PUBLIC SERVICE OF NEW HAMPSHIRE  | 06/00/80               | 06/00/81                    |
| FY 1981 | HARRIS 1,2,3,4         | 0400-0403     | CAROLINA POWER & LIGHT           | 10/00/80               | 10/00/80                    |
|         | LIMERICK 1 & 2         | 0352&0353     | PHILADELPHIA ELECTRIC            | 12/00/80               | 12/00/80                    |
|         | WASHINGTON NUCLEAR 1&4 | 0460&0513     | WASHINGTON PUBLIC POWER SUPPLY S | 05/00/81               | 05/00/81                    |
|         | WASHINGTON NUCLEAR 3&5 | 0508&0509     | WASHINGTON PUBLIC POWER SUPPLY S | 06/00/81               | 06/00/81                    |

### SITE REVIEW FORECAST

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

## SPECIAL REVIEWS - NEW APPLICATIONS FORECAST

DATA AS OF: MAY 2, 1980

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

| OTHER SPECIAL REVIEWS    |     |                      |           |
|--------------------------|-----|----------------------|-----------|
| FY 1980/81 (SP) LWBR     | 561 | ERDA NAVAL REACTORS  | 03/06/80C |
| (SP) A1W-A ADV. CORE MOD | 656 | DOE/NAVAL REACTORS   | 05/00/80  |
| (SP) GCFR PSID           | 456 | HELIUM BREEDER ASSOC | 05/00/80  |
| (SP) LMFBR DEV. PLT PSID |     | DOE                  | 05/00/80  |
| (SP) NASAP ALT. FIN. RPT | 616 | DOE                  | 06/00/80  |
| (SP) TREAT UPGRADE       |     | DOE/NRA              | 10/00/80  |

## SPECIAL REVIEWS - PROJECTED COMPLETION DATES

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

| OTHER SPECIAL REVIEWS |                                   |          |          |
|-----------------------|-----------------------------------|----------|----------|
| FY 1980               |                                   |          |          |
| 030-07448             | (SPC)*(SP)FFTF FSAR (0400)        | 04/01/80 | 04/00/80 |
| 050-00437             | (SPC)*(SP)FNP 1-8 (MANUF.) (1150) | N/S      | N/S      |
| 050-00376             | (SPC)*NORTH COAST N.S. (0583)     | N/S      | N/S      |
| 000-05482             | (SPC)*SNUPPS 1-6 (GENERIC) (0000) | N/S      | N/S      |

| STANDARDIZATION REVIEWS |                                    |     |     |
|-------------------------|------------------------------------|-----|-----|
| FY 1980                 |                                    |     |     |
| 050-00470               | (PDS)*(NSS)CESSAR SYSTEM 80 (1295) | N/S | N/S |
| 050-00560               | (PDS)*(BOP)BOPSSAR/BSAR-205 (0000) | N/S | N/S |
| 000-02591               | (PDS)*(BOP)ESSAR/BSAR-205 (0000)   | N/S | N/S |
| 050-00591               | (PDS)*(BOP)ESSAR/CESSAR-80 (0000)  | N/S | N/S |
| 000-07591               | (PDS)*(BOP)ESSAR/RESAR-414 (0000)  | N/S | N/S |
| 050-00595               | (PDS)*(BOP)GAISSAR (0000)          | N/S | N/S |
| 050-00584               | (PDS)*(BOP)GIBBSSAR (W) (0000)     | N/S | N/S |
| 000-00595               | (PDS)*(BOP)SWESSAR/BSAR-205 (1300) | N/S | N/S |

BOP = BALANCE OF PLANT DESIGN  
 ESR = EARLY SITE REVIEW  
 NSS = NUCLEAR STEAM SYSTEM SUPPLIER  
 PDS = PREDOCKETED PRELIMINARY DESIGN REVIEW  
 SP OR SPC = SPECIAL PROJECT

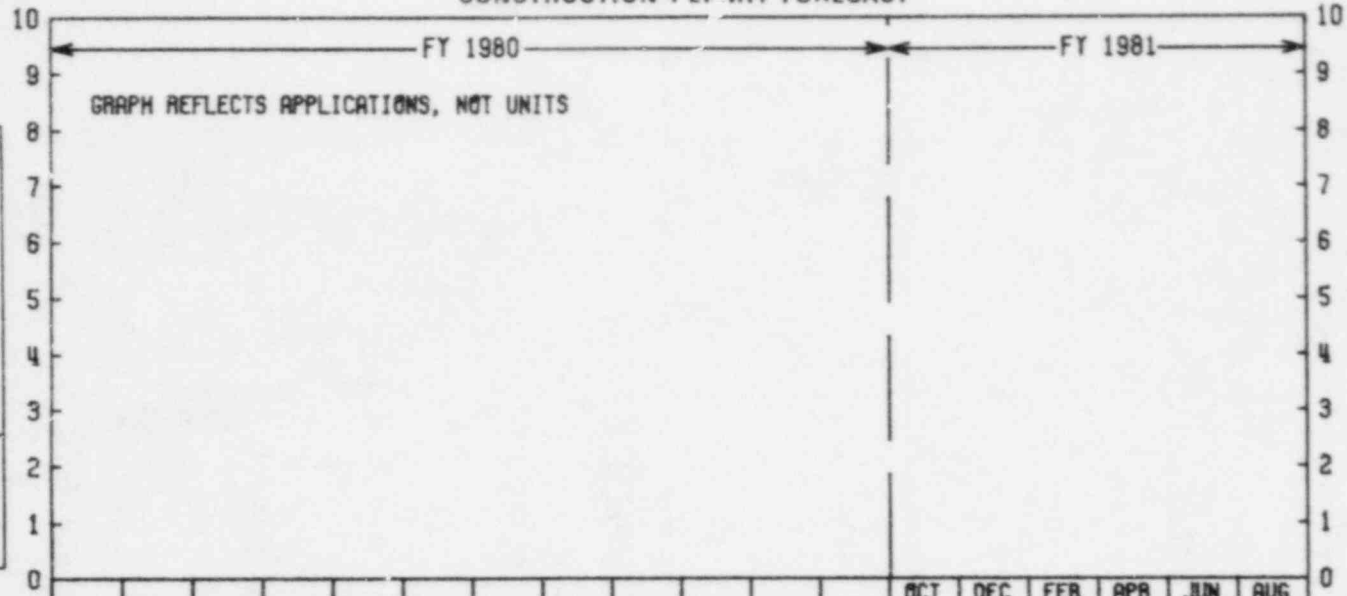


### CONSTRUCTION PERMIT FORECAST

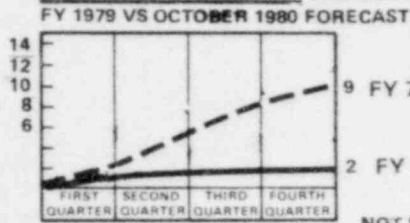
DATA AS OF: MAY 2, 1980

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

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



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



**FISCAL YEAR 80**  
 NONE

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

**SUMMARY:**  
 No CP applications were completed in April  
 None are estimated for completion in FY 80

|                              | APPLICATIONS (MWe)          | 10-01-79 FORECAST | CURRENT ESTIMATE |
|------------------------------|-----------------------------|-------------------|------------------|
| <b>NOT SCHEDULED</b>         |                             |                   |                  |
| 050-00466 (CP)               | ALLENS CREEK 1 (1150)       | N/S               | N/S              |
| 050-00556 (CP)               | BLACK FOX 1 & 2 (1150)      | N/S               | N/S              |
| 050-00502 (CP)               | HAVEN 1 (AMEND) (0900)      | N/S               | N/S              |
| 050-00514 (CP)               | PEBBLE SPRINGS 1 & 2 (1260) | N/S               | N/S              |
| 050-00488 (CP)               | PERKINS 1,2,3 (1280)        | N/S               | N/S              |
| 050-00471 (CP)               | PILGRIM 2 (1180)            | N/S               | N/S              |
| 050-00522 (CP)               | SKAGIT 1 & 2 (1277)         | N/S               | N/S              |
| <b>STATUS OF APPLICATION</b> | <b>SE SUPPL DATE</b>        | <b>FES DATE</b>   | <b>LWA DATE</b>  |
| <b>FACILITY NAME</b>         |                             |                   | <b>PDD DATE</b>  |
| ALLENS CREEK 1               | COMPLETE                    | COMPLETE          | N/A              |
| BLACK FOX 1 & 2              | COMPLETE                    | COMPLETE          | COMPLETE         |
| HAVEN 1 (AMEND)              | N/S                         | N/S               | N/A              |
| PEBBLE SPRINGS 1 & 2         | N/S                         | COMPLETE          | N/S              |
| PERKINS 1,2,3                | COMPLETE                    | COMPLETE          | N/A              |
| PILGRIM 2                    | COMPLETE                    | COMPLETE          | N/S              |
| SKAGIT 1 & 2                 | COMPLETE                    | COMPLETE          | N/S              |

### CONSTRUCTION PERMIT REVIEW DURATION SUMMARY

DATA AS OF: MAY 2, 1980

(DURATIONS OF MAJOR ACTIVITIES FOR APPLICATIONS DOCKETED IN FISCAL YEARS 1974 - 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            | PSAR     | ER       | SE SUPP  | FES      | LWA      | CP       | DURATION (MONTHS) |           |          |         | START CONST. |
|------------------------|----------|----------|----------|----------|----------|----------|-------------------|-----------|----------|---------|--------------|
|                        |          |          |          |          |          |          | SAF. REV.         | ENV. REV. | LWA REV. | CP REV. |              |
| <b>FY 1974</b>         |          |          |          |          |          |          |                   |           |          |         |              |
| 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     | 19.4              | 17.7      | ----     | ----    | ----         |
| ALLENS CREEK 1         | 12-07-73 | 12-07-73 | 03-31-79 | 11-18-74 | ----     | OPEN     | 63.8              | 11.3      | ----     | ----    | ----         |
| PILGRIM 2              | 12-21-73 | 12-21-73 | 01-19-79 | 05-27-75 | OPEN     | OPEN     | 60.9              | 17.2      | ----     | ----    | ----         |
| QUANICASSEE 1 & 2      | 02-28-74 | 02-11-74 | ----     | ----     | OPEN     | OPEN     | ----              | ----      | ----     | ----    | ----         |
| WOLF CREEK 1           | 07-26-74 | 05-17-74 | 11-29-76 | 10-31-75 | 01-24-77 | 05-17-77 | 28.1              | 17.4      | 32.2     | 33.7    | 32.2         |
| CHEROKEE 1,2,3         | 05-24-74 | 06-28-74 | 07-11-77 | 10-01-75 | 05-28-76 | 12-30-77 | 37.5              | 15.1      | 23.0     | 43.2    | 23.0         |
| PERKINS 1,2,3          | 05-24-74 | 06-28-74 | 07-11-77 | 10-21-75 | ----     | OPEN     | 37.5              | 15.7      | ----     | ----    | ----         |
| CALLAWAY 1 & 2         | 06-21-74 | 07-30-74 | 01-23-76 | 03-21-75 | 08-14-75 | 04-16-76 | 19.0              | 7.7       | 12.4     | 21.8    | 12.4         |
| STERLING 1             | 06-21-74 | 12-20-74 | 12-01-76 | 06-28-76 | ----     | 09-01-77 | 29.3              | 18.2      | ----     | 38.3    | 38.3         |
| TYRONE 1               | 06-21-74 | 08-29-74 | 12-01-76 | 04-28-77 | ----     | 12-27-77 | 29.3              | 31.9      | ----     | 42.2    | 42.2         |
| <b>FY 1975</b>         |          |          |          |          |          |          |                   |           |          |         |              |
| 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     | 20.5    | 19.3         |
| BARTON 1 & 2           | 09-27-74 | 11-15-74 | OPEN     | OPEN     | ----     | OPEN     | ----              | ----      | ----     | ----    | ----         |
| SKAGIT 1 & 2           | 01-15-75 | 09-30-74 | 10-20-78 | 06-02-75 | OPEN     | OPEN     | 45.1              | 8.0       | ----     | ----    | ----         |
| PALO VERDE 1,2,3       | 10-07-74 | 10-07-74 | 04-08-76 | 09-25-75 | ----     | 05-25-76 | 18.5              | 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      | ----     | ----    | ----         |
| <b>FY 1976</b>         |          |          |          |          |          |          |                   |           |          |         |              |
| FORT CALHOUN 2         | 09-11-75 | 01-26-76 | OPEN     | 03-13-78 | ----     | ----     | ----              | 25.5      | ----     | ----    | ----         |
| MARBLE HILL 1 & 2      | 09-17-75 | 09-11-75 | 07-22-77 | 09-22-76 | 08-24-77 | 04-04-78 | 22.1              | 12.3      | 23.4     | 30.5    | 23.4         |
| GREENE COUNTY          | 01-26-76 | 09-15-75 | OPEN     | 02-07-79 | ----     | OPEN     | ----              | 40.7      | ----     | ----    | ----         |
| PHIPPS BEND 1 & 2      | 11-07-75 | 04-01-76 | 09-23-77 | 02-17-77 | 10-18-77 | 01-16-78 | 22.5              | 10.5      | 18.5     | 26.3    | 18.5         |
| BLACK FOX 1 & 2        | 12-23-75 | 12-23-75 | 09-05-78 | 02-08-77 | 07-26-78 | OPEN     | 32.4              | 13.5      | 31.1     | ----    | 31.1         |
| YELLOW CREEK 1 & 2     | 07-16-76 | 12-20-76 | 06-27-78 | 11-28-77 | 02-09-78 | 11-29-78 | 23.3              | 11.2      | 13.6     | 28.4    | 13.6         |
| NEW ENGLAND 1 & 2      | 09-09-76 | 09-09-76 | 07-20-79 | OPEN     | ----     | OPEN     | 34.3              | ----      | ----     | ----    | ----         |

(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. |
| 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 | OPEN | ----              | 18.2      | ----     | ----    |

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

\*ACTIVITY NOT YET COMPLETED

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

SE SUPPLEMENTS BY FISCAL YEAR

| APPLICATION                         | SAR<br>DOCKETED | SE SUPPL. | DURATION<br>(MONTHS) |
|-------------------------------------|-----------------|-----------|----------------------|
| (PCP) NINE MILE POINT 2 (1100)      | 06/15/72C       | 08/07/73C | 13.7                 |
| (PCP) BAILLY 1 (0645)               | 08/24/70C       | 10/31/73C | 38.2                 |
| (PCP) CATAWBA 1 & 2 (1145)          | 10/27/72C       | 01/21/74C | 14.8                 |
| (OL) WATERFORD 3-(1113)             | 12/19/70C       | 02/01/74C | 37.4                 |
| (PCP) NORTH ANNA 3 & 4 (0907)       | 09/15/71C       | 02/28/74C | 29.4                 |
| (PCP) HOPE CREEK 1 & 2 (1067)       | 02/27/70C       | 03/01/74C | 48.1                 |
| (PCP) BEAVER VALLEY 2 (0852)        | 10/20/72C       | 04/25/74C | 18.1                 |
| (PCP) VOGTLE 1 & 2 (1113)           | 02/13/73C       | 05/01/74C | 14.6                 |
| (PCP) MILLSTONE 3 (1156)            | 02/10/73C       | 05/16/74C | 15.2                 |
| AVERAGE DURATION 25.5 (FY 1974)     |                 |           |                      |
| (OL) GRAND GULF 1 & 2 (1250)        | 11/17/72C       | 07/24/74C | 20.2                 |
| (OL) BELLEFONTE 1 & 2 (1213)        | 06/21/73C       | 08/30/74C | 14.3                 |
| (PCP) SURRY 3 & 4 (0859)            | 05/29/73C       | 09/03/74C | 15.1                 |
| (OL) COMANCHE PEAK 1 & 2 (1150)     | 07/20/73C       | 11/15/74C | 15.8                 |
| (PCP) FULTON 1 & 2 (1160)           | 11/16/73C       | 06/30/75C | 19.4                 |
| AVERAGE DURATION 16.9 (FY 1975)     |                 |           |                      |
| (PCP) WASHINGTON NUCLEAR 1&4 (1218) | 10/18/73C       | 10/15/75C | 23.9                 |
| (OL) BRAIDWOOD 1 & 2 (1120)         | 09/20/73C       | 10/17/75C | 24.9                 |
| (OL) BYRON 1 & 2 (1120)             | 09/20/73C       | 10/17/75C | 24.9                 |
| (OL) SOUTH TEXAS 1 & 2 (1250)       | 07/05/74C       | 10/29/75C | 15.8                 |
| (PCP) SEABROOK 1 & 2 (1200)         | 07/09/73C       | 11/14/75C | 28.1                 |
| (PCP) CLINTON 1 & 2 (0933)          | 10/30/73C       | 12/02/75C | 25.0                 |
| (PCP) RIVER BEND 1 & 2 (0934)       | 09/24/73C       | 12/22/75C | 26.9                 |
| (PCP) CALLAWAY 1 & 2 (1120)         | 06/21/74C       | 01/23/76C | 19.0                 |
| (PCP) PALO VERDE 1,2,3 (1270)       | 10/07/74C       | 04/08/76C | 18.0                 |
| (PCP) ST LUCIE 2 (0810)             | 05/15/73C       | 04/27/76C | 35.4                 |
| (PCP) KOSHKONONG 1 (0900)           | 08/26/74C       | 07/02/76C | 22.2                 |
| AVERAGE DURATION 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) PERRY 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)     |                 |           |                      |

MAY 2, 1980

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

MAY 2, 1980

| APPLICATION                        | ER<br>DOCKETED | FES SUPPL. | DURATION<br>(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) MONTAGUE 1 & 2 (1150)         | 07/12/74C      | 02/22/77C  | 31.3                 |
| (CP) TYRONE 1 (1150)*              | 08/29/74C      | 04/28/77C  | 31.9                 |
| AVERAGE DURATION 21.8 (FY 1977)    |                |            |                      |
| (CP) YELLOW CREEK 1 & 2 (1285)     | 12/20/76C      | 11/28/77C  | 11.2                 |
| AVERAGE DURATION 11.2 (FY 1978)    |                |            |                      |
| (CP) SUNDESERT 1 & 2 (0974)        | 04/12/77C      | 10/24/78C  | 18.4                 |
| (CP) GREENE COUNTY (1191)          | 09/15/75C      | 02/07/79C  | 40.7                 |
| AVERAGE DURATION 29.5 (FY 1979)    |                |            |                      |

\* CANCELLED AFTER FES ISSUANCE  
FOR CP REVIEW

# ACRS FORECAST

DATA AS OF: APRIL 30, 1980

| NUCLEAR REACTOR REGULATION |                         |            |            |          | STANDARDS DEVELOPMENT |          |      |          |
|----------------------------|-------------------------|------------|------------|----------|-----------------------|----------|------|----------|
| DAY                        | NAME                    | STAGE/TYPE | DOCKET NO. | ACTIVITY | DAY                   | TASK NO. | TYPE | ACTIVITY |
| JUN                        |                         |            |            |          | 02                    | EM801-4  | 00   | FC       |
|                            |                         |            |            |          | 04                    | RS807-5  | 00   | SC       |
|                            |                         |            |            |          | 04                    | RS809-5  | 00   | SC       |
|                            |                         |            |            |          | 15                    | SS926-4  | 00   | SC       |
| JUL                        |                         |            |            |          | 09                    | RS902-4  | 00   | SC       |
|                            |                         |            |            |          | 09                    | RS705-4  | 00   | SC       |
|                            |                         |            |            |          | 12                    | RS705-4  | 00   | FC       |
|                            |                         |            |            |          | 18                    | RS809-5  | 00   | FC       |
| AUG                        | 15 SUMMER 1             | OL/PWR     | 05000395   | SC       |                       |          |      |          |
| SEP                        | 05 SUSQUEHANNA 1 & 2    | OL/BWR     | 05000387   | FC       | 04                    | RS042-2  | 00   | SC       |
|                            | 08 SUMMER 1             | OL/PWR     | 05000395   | FC       |                       |          |      |          |
|                            | 12 SHOREHAM             | OL/BWR     | 05000322   | FC       |                       |          |      |          |
| OCT                        | 00 LASALLE 1 & 2        | OL/BWR     | 05000373   | FC       | 10                    | FP925-5  | 00   | FC       |
|                            | 07 SAN ONOFRE 2 & 3     | OL/PWR     | 05000361   | FC       |                       |          |      |          |
| NOV                        | 05 ENRICO FERMI 2       | OL/BWR     | 05000341   | SC       | 15                    | SS804-9  | 00   | SC       |
|                            | 25 WASHINGTON NUCLEAR 2 | OL/BWR     | 05000397   | SC       |                       |          |      |          |

TASK # TASK DESCRIPTION

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

FP925-5 NUCLEAR CRITICALITY SAFETY FOR PIPE INTERSECTIONS CONTAINING AQUEOUS SOLUTIONS OF ENRICHED URANYL NITRATE

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

RS705-4 CRITERIA FOR LIGHTNING PROTECTION FOR NPPS

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

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

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

SS604-9 EXTREME WIND SPEEDS IN COASTAL AREAS FOR THE DESIGN AND OPERATION OF NPP'S

SS926-4 R.G.1.23, REV.1 "ONSITE METEOROLOGICAL PROGRAMS"

KEY:

FC = FULL COMMITTEE

SC = SUBCOMMITTEE

AFC = ADDITIONAL FULL COMMITTEE

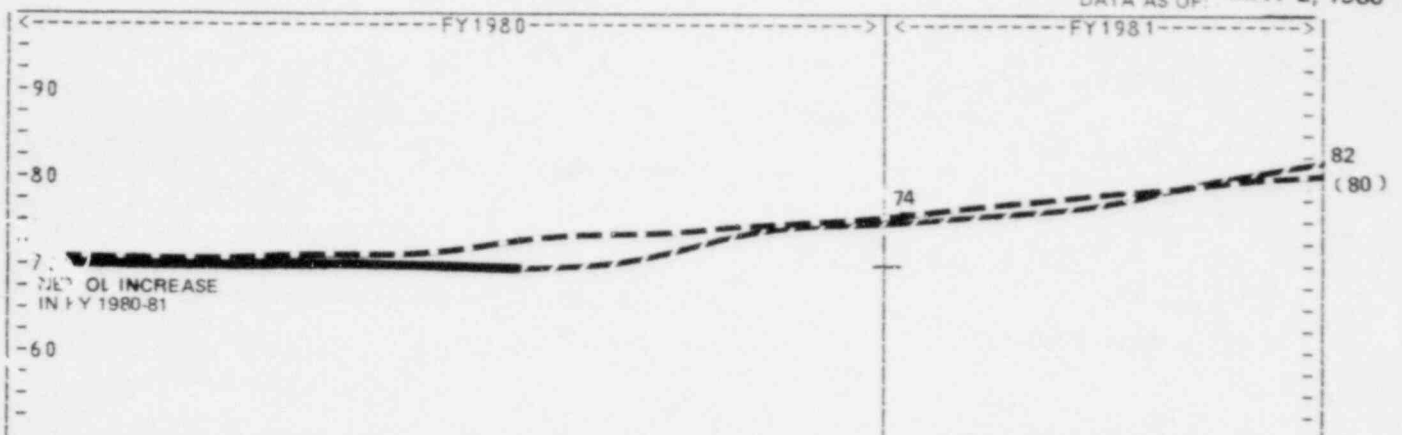
GD = GUIDE

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

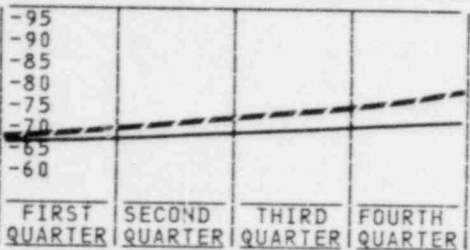
DATA AS OF: MAY 2, 1980

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

LEGEND:  
BUDGET FORECAST - - - -  
ACTUAL COMPLETIONS - - -  
LATEST ESTIMATE - - - -



|                            | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY  | JUN  | JUL  | AUG  | SEP  | OCT NOV | DEC JAN | FEB MAR | APR MAY | JUN JUL | AUG SEP | TOTAL |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|---------|---------|---------|---------|---------|---------|-------|
| BUDGET FORECAST BY MONTH   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 1    | 2    | 1    | 0    | 1       | 1       | 1       | 2       | 1       | 2       | 12    |
| LATEST ESTIMATE BY MONTH   | 0   | 0   | 0   | 0   | 1   | 0   | 2   | (0)  | (0)  | (1)  | (0)  | (0)  | (2)     | (1)     | (1)     | (0)     | (2)     | (0)     | (10)  |
| CUMULATIVE BUDGET FORECAST | 70  | 70  | 70  | 70  | 70  | 70  | 70  | 70   | 71   | 73   | 74   | 74   | 75      | 76      | 77      | 79      | 80      | 82      | 82    |
| CUMULATIVE LATEST ESTIMATE | 70  | 70  | 70  | 71  | 71  | 71  | 73  | (73) | (73) | (74) | (74) | (74) | (76)    | (77)    | (78)    | (78)    | (80)    | (80)    | (80)  |



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 plan, is about three months.

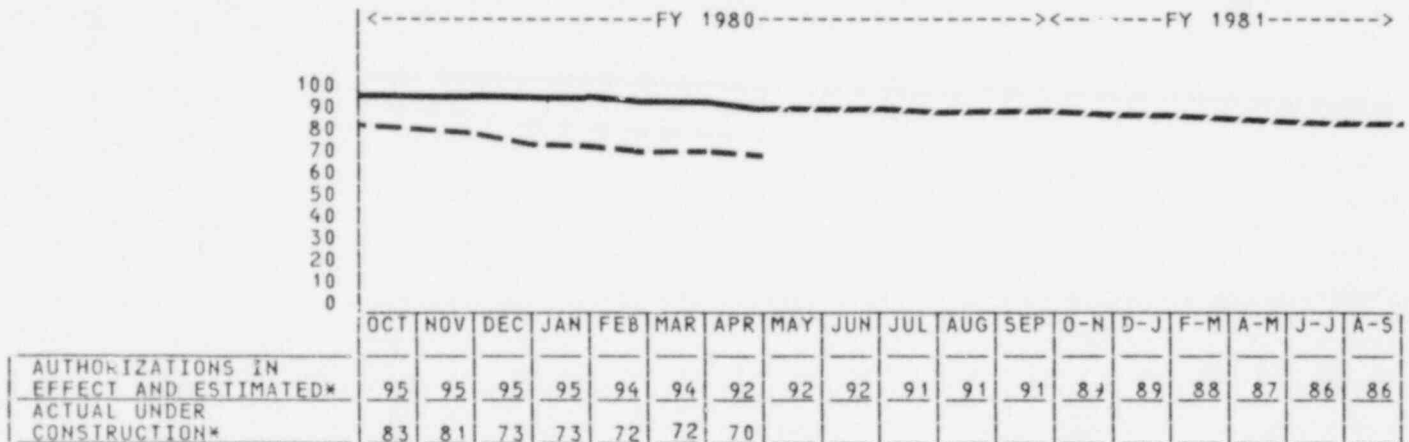
- Sequoyah 1 was granted a license on 02-29-80.
- North Anne 2 was granted a license on 04-11-80.
- Salem 2 was granted a license on 04-18-80.

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

## NUCLEAR POWER PLANTS UNDER CONSTRUCTION

DATA AS OF: MAY 2, 1980

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



AUTHORIZATIONS GRANTED †   
 ACTUALLY UNDER CONSTRUCTION   
 FUTURE AUTHORIZATIONS

LIMITED WORK AUTHORIZATION OR CONSTRUCTION PERMIT GRANTED:

\* IN UNITS  
† 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   |
| BYRON 1 & 2         | 12-13-74   |
| CALLAWAY 1          | 08-14-75   |
| CATAWBA 1 & 2       | 05-16-74   |
| CHEROKEE 1 & 2      | 05-28-76   |
| CLINTON 1           | 10-01-75   |
| COMANCHE PEAK 1 & 2 | 10-17-74   |
| DIABLO CANYON 1     | 04-23-68   |
| DIABLO CANYON 2     | 12-09-70   |
| FARLEY 2            | 08-16-72   |
| FERMI 2             | 09-27-72   |
| GRAND GULF 1 & 2    | 05-03-74   |
| HARRIS 1 & 2        | 01-01-74   |
| HARTSVILLE 1 & 2    | 04-22-76   |
| HOPE CREEK 1 & 2    | 11-04-74   |
| LASALLE 1 & 2       | 09-10-73   |
| LIMERICK 1 & 2      | 06-19-74   |
| MARBLE HILL 1 & 2   | 08-24-77   |
| MCGUIRE 1 & 2       | 02-23-73   |
| MIDLAND 1 & 2       | 12-15-72   |
| MILLSTONE 3         | 06-05-74   |
| NINE MILE POINT 2   | 06-24-74   |
| 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   |
| SAN ONOFRE 2 & 3    | 10-18-73   |
| SEABROOK 1 & 2      | 07-07-76   |
| SEQUOYAH 2          | 05-27-70   |
| SHOREHAM            | 04-14-73   |
| SOUTH TEXAS 1 & 2   | 08-12-75   |

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

TOTAL - 70 UNITS

\* AUTHORIZED BUT NOT UNDER CONSTRUCTION

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

TOTAL - 22 UNITS



# MONTHLY HIGHLIGHTS OF COMMERCIAL NUCLEAR POWER UNITS

FOR MONTH END OF  
**MARCH 1980**

**ACTU-45 POTENTIAL ENERGY PRODUCTION**

POTENTIAL ENERGY AVAILABLE IN THIS PERIOD BY  
 (Using Maximum Available Capacity)

ENERGY ACTUALLY PRODUCED DURING THIS REPORT PERIOD - 18,374,000 MWHrs NET  
 ENERGY NOT PRODUCED DURING THIS REPORT PERIOD DUE TO MAINTENANCE OUTAGES (MWT) - 11,336,000 MWHrs  
 ENERGY NOT PRODUCED DURING THIS REPORT PERIOD DUE TO FORCED OUTAGES (MFT) - 3,646,720 MWHrs  
 ENERGY NOT PRODUCED DURING THIS REPORT PERIOD FOR OTHER REASONS (MOT) - 1,429,720 MWHrs  
**TOTAL** - 16,421,440 MWHrs

PERCENT OF POTENTIAL ENERGY PRODUCTION ACTUALLY PRODUCED - 83.2%

**LICENSED POWER FACTORS:**

| REPORT MONTH | PREVIOUS MONTH | YEAR TO DATE |
|--------------|----------------|--------------|
| 67           | 66             | 67           |
| 67           | 67             | 67           |
| 1            | 1              | 1            |

**POWER GENERATION**

| REPORT MONTH | PREVIOUS MONTH | YEAR TO DATE |
|--------------|----------------|--------------|
| 67           | 66             | 67           |
| 67           | 67             | 67           |
| 1            | 1              | 1            |

**OUTAGE DATA**

| NUMBER                                   | HOURS    | PERCENT OF CLOCK TIME | NET ENERGY PRODUCTION |
|--|----------|-----------------------|-----------------------|
| 1. FORCED OUTAGES DURING MONTH           | 4,860.7  | 9.3                   | 3,646,720             |
| 2. MAINTENANCE OUTAGES DURING THIS MONTH | 10,618.1 | 20.6                  | 11,336,000            |
| 3. TOTAL                                 | 15,478.8 | 30.0                  | 15,000,000            |

NET ENERGY PRODUCTION - (Using Maximum Available Capacity)

**OPERATED UNITS**

| UNIT NAME        | OPERATED UNITS (MWHrs) | PERCENT OF MONTHLY PRODUCTION |
|------------------|------------------------|-------------------------------|
| ASHLEY POINT 1   | 83                     | 0.45                          |
| CALVERT CLIFFS 1 | 410                    | 2.23                          |
| POINT BEACON 1   | 130                    | 0.71                          |
| ASHLEY POINT 2   | 804                    | 4.38                          |
| ASHLEY POINT 3   | 400                    | 2.18                          |
| POINT BEACON 3   | 400                    | 2.18                          |

**NOTES:**

1. BASED UPON MAXIMUM OPERABLE CAPACITY. DESIGN ELECTRIC RATING (DER) OF MW NOT APPLICABLE.

2. EXCLUDES MEAN POINT 1 (DER - 500 MW), HAMBURG (DER - 400 MW) AND THURSDAY HILLS (ISLAND 7 DER - 500 MW) WHICH HAVE OPERATING LICENSES BUT ARE SHUTDOWN INDIVIDUALLY.

3. BASED UPON 1,000,000 MWHrs. DER LICENSED ON FEBRUARY 29, 1980 FOR USE, LICENSED AND LOW POWER (15,120,000 MWHrs).

THIS DATA REPRESENTS ONE MONTH ONLY.

# MONTHLY HIGHLIGHTS OF COMMERCIAL NUCLEAR POWER UNITS

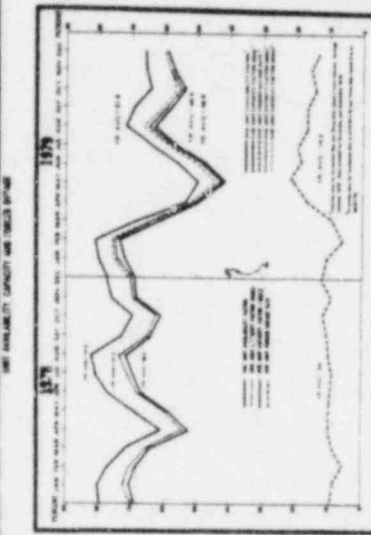
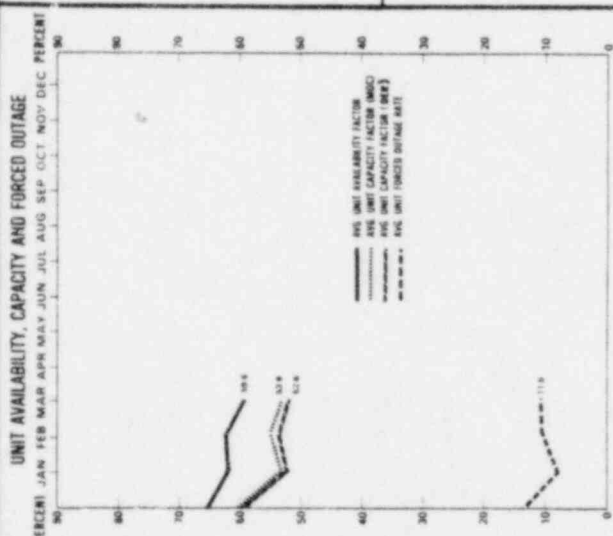
MARCH 1980

## REASONS FOR SHUTDOWN

| REASON                                      | NUMBER | TOTAL HOURS OF UNPLANT LIST |
|---|--------|-----------------------------|
| A. Equipment Failure                        | 45     | 3,337.5                     |
| B. Maintenance on Fuel                      | 14     | 2,570.0                     |
| C. Refueling                                | 11     | 18,487.0                    |
| D. NRC Activities                           | 7      | 4,192.2                     |
| E. Operator Training and License Expiration | 5      | 1.2                         |
| F. Administrative                           | 5      | 28.8                        |
| G. Operational Error                        | 2      | 28.1                        |
| H. Other                                    | 8      | 969.9                       |
|   | 101    | 50,415.7                    |

## SHUTDOWNS GREATER THAN 72 HOURS EACH

| UNIT NAME       | REASON | UNIT NAME            | REASON |
|-----------------|--------|----------------------|--------|
| BARABANKS 1     | A      | WALSH ISLE POINT 1   | B      |
| BARABANKS 2     | A      | WALSH ISLE POINT 2   | B      |
| BRIDGEPORT 1    | A      | WALSH ISLE POINT 3   | B      |
| BRIDGEPORT 2    | A      | WALSH ISLE POINT 4   | B      |
| CHERRY POINT 1  | C      | WALSH ISLE POINT 5   | B      |
| CHERRY POINT 2  | C      | WALSH ISLE POINT 6   | B      |
| CHERRY POINT 3  | C      | WALSH ISLE POINT 7   | B      |
| CHERRY POINT 4  | C      | WALSH ISLE POINT 8   | B      |
| CHERRY POINT 5  | C      | WALSH ISLE POINT 9   | B      |
| CHERRY POINT 6  | C      | WALSH ISLE POINT 10  | B      |
| CHERRY POINT 7  | C      | WALSH ISLE POINT 11  | B      |
| CHERRY POINT 8  | C      | WALSH ISLE POINT 12  | B      |
| CHERRY POINT 9  | C      | WALSH ISLE POINT 13  | B      |
| CHERRY POINT 10 | C      | WALSH ISLE POINT 14  | B      |
| CHERRY POINT 11 | C      | WALSH ISLE POINT 15  | B      |
| CHERRY POINT 12 | C      | WALSH ISLE POINT 16  | B      |
| CHERRY POINT 13 | C      | WALSH ISLE POINT 17  | B      |
| CHERRY POINT 14 | C      | WALSH ISLE POINT 18  | B      |
| CHERRY POINT 15 | C      | WALSH ISLE POINT 19  | B      |
| CHERRY POINT 16 | C      | WALSH ISLE POINT 20  | B      |
| CHERRY POINT 17 | C      | WALSH ISLE POINT 21  | B      |
| CHERRY POINT 18 | C      | WALSH ISLE POINT 22  | B      |
| CHERRY POINT 19 | C      | WALSH ISLE POINT 23  | B      |
| CHERRY POINT 20 | C      | WALSH ISLE POINT 24  | B      |
| CHERRY POINT 21 | C      | WALSH ISLE POINT 25  | B      |
| CHERRY POINT 22 | C      | WALSH ISLE POINT 26  | B      |
| CHERRY POINT 23 | C      | WALSH ISLE POINT 27  | B      |
| CHERRY POINT 24 | C      | WALSH ISLE POINT 28  | B      |
| CHERRY POINT 25 | C      | WALSH ISLE POINT 29  | B      |
| CHERRY POINT 26 | C      | WALSH ISLE POINT 30  | B      |
| CHERRY POINT 27 | C      | WALSH ISLE POINT 31  | B      |
| CHERRY POINT 28 | C      | WALSH ISLE POINT 32  | B      |
| CHERRY POINT 29 | C      | WALSH ISLE POINT 33  | B      |
| CHERRY POINT 30 | C      | WALSH ISLE POINT 34  | B      |
| CHERRY POINT 31 | C      | WALSH ISLE POINT 35  | B      |
| CHERRY POINT 32 | C      | WALSH ISLE POINT 36  | B      |
| CHERRY POINT 33 | C      | WALSH ISLE POINT 37  | B      |
| CHERRY POINT 34 | C      | WALSH ISLE POINT 38  | B      |
| CHERRY POINT 35 | C      | WALSH ISLE POINT 39  | B      |
| CHERRY POINT 36 | C      | WALSH ISLE POINT 40  | B      |
| CHERRY POINT 37 | C      | WALSH ISLE POINT 41  | B      |
| CHERRY POINT 38 | C      | WALSH ISLE POINT 42  | B      |
| CHERRY POINT 39 | C      | WALSH ISLE POINT 43  | B      |
| CHERRY POINT 40 | C      | WALSH ISLE POINT 44  | B      |
| CHERRY POINT 41 | C      | WALSH ISLE POINT 45  | B      |
| CHERRY POINT 42 | C      | WALSH ISLE POINT 46  | B      |
| CHERRY POINT 43 | C      | WALSH ISLE POINT 47  | B      |
| CHERRY POINT 44 | C      | WALSH ISLE POINT 48  | B      |
| CHERRY POINT 45 | C      | WALSH ISLE POINT 49  | B      |
| CHERRY POINT 46 | C      | WALSH ISLE POINT 50  | B      |
| CHERRY POINT 47 | C      | WALSH ISLE POINT 51  | B      |
| CHERRY POINT 48 | C      | WALSH ISLE POINT 52  | B      |
| CHERRY POINT 49 | C      | WALSH ISLE POINT 53  | B      |
| CHERRY POINT 50 | C      | WALSH ISLE POINT 54  | B      |
| CHERRY POINT 51 | C      | WALSH ISLE POINT 55  | B      |
| CHERRY POINT 52 | C      | WALSH ISLE POINT 56  | B      |
| CHERRY POINT 53 | C      | WALSH ISLE POINT 57  | B      |
| CHERRY POINT 54 | C      | WALSH ISLE POINT 58  | B      |
| CHERRY POINT 55 | C      | WALSH ISLE POINT 59  | B      |
| CHERRY POINT 56 | C      | WALSH ISLE POINT 60  | B      |
| CHERRY POINT 57 | C      | WALSH ISLE POINT 61  | B      |
| CHERRY POINT 58 | C      | WALSH ISLE POINT 62  | B      |
| CHERRY POINT 59 | C      | WALSH ISLE POINT 63  | B      |
| CHERRY POINT 60 | C      | WALSH ISLE POINT 64  | B      |
| CHERRY POINT 61 | C      | WALSH ISLE POINT 65  | B      |
| CHERRY POINT 62 | C      | WALSH ISLE POINT 66  | B      |
| CHERRY POINT 63 | C      | WALSH ISLE POINT 67  | B      |
| CHERRY POINT 64 | C      | WALSH ISLE POINT 68  | B      |
| CHERRY POINT 65 | C      | WALSH ISLE POINT 69  | B      |
| CHERRY POINT 66 | C      | WALSH ISLE POINT 70  | B      |
| CHERRY POINT 67 | C      | WALSH ISLE POINT 71  | B      |
| CHERRY POINT 68 | C      | WALSH ISLE POINT 72  | B      |
| CHERRY POINT 69 | C      | WALSH ISLE POINT 73  | B      |
| CHERRY POINT 70 | C      | WALSH ISLE POINT 74  | B      |
| CHERRY POINT 71 | C      | WALSH ISLE POINT 75  | B      |
| CHERRY POINT 72 | C      | WALSH ISLE POINT 76  | B      |
| CHERRY POINT 73 | C      | WALSH ISLE POINT 77  | B      |
| CHERRY POINT 74 | C      | WALSH ISLE POINT 78  | B      |
| CHERRY POINT 75 | C      | WALSH ISLE POINT 79  | B      |
| CHERRY POINT 76 | C      | WALSH ISLE POINT 80  | B      |
| CHERRY POINT 77 | C      | WALSH ISLE POINT 81  | B      |
| CHERRY POINT 78 | C      | WALSH ISLE POINT 82  | B      |
| CHERRY POINT 79 | C      | WALSH ISLE POINT 83  | B      |
| CHERRY POINT 80 | C      | WALSH ISLE POINT 84  | B      |
| CHERRY POINT 81 | C      | WALSH ISLE POINT 85  | B      |
| CHERRY POINT 82 | C      | WALSH ISLE POINT 86  | B      |
| CHERRY POINT 83 | C      | WALSH ISLE POINT 87  | B      |
| CHERRY POINT 84 | C      | WALSH ISLE POINT 88  | B      |
| CHERRY POINT 85 | C      | WALSH ISLE POINT 89  | B      |
| CHERRY POINT 86 | C      | WALSH ISLE POINT 90  | B      |
| CHERRY POINT 87 | C      | WALSH ISLE POINT 91  | B      |
| CHERRY POINT 88 | C      | WALSH ISLE POINT 92  | B      |
| CHERRY POINT 89 | C      | WALSH ISLE POINT 93  | B      |
| CHERRY POINT 90 | C      | WALSH ISLE POINT 94  | B      |
| CHERRY POINT 91 | C      | WALSH ISLE POINT 95  | B      |
| CHERRY POINT 92 | C      | WALSH ISLE POINT 96  | B      |
| CHERRY POINT 93 | C      | WALSH ISLE POINT 97  | B      |
| CHERRY POINT 94 | C      | WALSH ISLE POINT 98  | B      |
| CHERRY POINT 95 | C      | WALSH ISLE POINT 99  | B      |
| CHERRY POINT 96 | C      | WALSH ISLE POINT 100 | B      |



## REFUELING SCHEDULE

Please refer to the table on page 3 for the scheduled refueling dates for each unit. Changes are indicated in this schedule.

**SECTION III -**

**NUCLEAR MATERIALS**

NMSS APPLICATIONS FORECAST  
FY 1980/81

DATA AS OF : 05-09-80

| APPLICANT              | LOCATION         | FAC. TYPE | APPL. TYPE | BUDGET ESTIMATE SUBMITTAL DATE | CURRENT ESTIMATE SUBMITTAL DATE | PR T MANAGER(S) |
|------------------------|------------------|-----------|------------|--------------------------------|---------------------------------|-----------------|
| ANACONDA COPPER CO.    | MCMULLEN CO., TX | UM        | NA         | N/S                            | 02-12-80C                       | G. WU           |
| CONOCO                 |                  | UM        | NA         | FY80                           | FY80                            |                 |
| PATHFINDER MINES       |                  | UM        | NA         | FY80                           | FY80                            |                 |
| KERR-MCGEE (SPRB)      |                  | UM        | NA         | FY80                           | FY80                            |                 |
| UNITED NUCLEAR         |                  | UM        | AM         | FY80                           | FY80                            |                 |
| ATLAS MINERAL CORP.    |                  | UM        | AM         | FY80                           | FY80                            |                 |
| FED. - AMER. PARTNERS  |                  | UM        | AM         | FY80                           | FY80                            |                 |
| PLATEAU RESOURCES      |                  | UM        | AM         | FY80                           | FY80                            |                 |
| RIO ALGOM              |                  | UM        | AM         | FY80                           | FY80                            |                 |
| UNION CARBIDE, RMEC    |                  | UM        | NA         | FY81                           | FY81                            |                 |
| AMERICAN NUCLEAR CORP. |                  | UM        | NA         | FY81                           | FY81                            |                 |
| CLEVELAND CLIFFS       |                  | UM        | NA         | FY81                           | FY81                            |                 |
| STANDARD METALS        |                  | UM        | NA         | FY81                           | FY81                            |                 |
| RMEC                   |                  | UM        | NA         | FY81                           | FY81                            |                 |
| ENERGY FUELS NUCLEAR   |                  | UM        | AM         | FY81                           | FY81                            |                 |
| UNION CARBIDE          |                  | UM        | AM         | FY81                           | FY81                            |                 |
| PETROTOMICS            |                  | UM        | RN         | FY81                           | FY81                            |                 |
| COTTER CORP.           |                  | UOP       | NA         | FY80                           | FY80                            |                 |
| KERR-MCGEE CORP.       |                  | UOP       | NA         | FY80                           | FY80                            |                 |
| ADOBE OIL & GAS        |                  | UOP       | NA         | FY81                           | FY81                            |                 |
| RMEC (R & D HL)        |                  | UOP       | NA         | FY81                           | FY81                            |                 |
| MINERALS EXPLORATION   |                  | UOP       | NA         | FY81                           | FY81                            |                 |
| ROCKY MTN. ENERGY      | NATRONA, WY      | ISL       | RN         | N/S                            | 01-28-80C                       | J. ROTHFLEISCH  |
| MINERALS EXPLORATION   | SWEETWATER, WY   | ISL       | RN         | N/S                            | 01-16-80C                       | G. EADIE        |
| CLEVELAND CLIFFS       | CAMPBELL CO., WY | ISL       | AM         | N/S                            | 10-26-79C                       | G. EADIE        |
| TETON EXPLORATION      |                  | ISL       | NA         | FY80                           | FY80                            |                 |
| EXXON                  |                  | ISL       | NA         | FY81                           | FY81                            |                 |
| NUCLEAR DYNAMICS       |                  | ISL       | NA         | FY81                           | FY81                            |                 |
| RMEC (RENO)            |                  | ISL       | NA         | FY81                           | FY81                            |                 |
| MINERALS EXPLORATION   |                  | ISL       | NA         | FY81                           | FY81                            |                 |
| WYOMING MINERALS       |                  | ISL       | AM         | FY81                           | FY81                            |                 |

N - New Application  
 A - Amendment  
 R - Renewal  
 UOP - Uranium Ore Processing  
 ST - Solution Mining  
 ORR - Other Solution Recovery  
 UFF - Uranium Fuel Fabrication  
 P/FR - Plutonium (MOX) and Pilot Facility  
 UFG - UFG Production  
 SFS - Spent Fuel Storage  
 HLW - High Level Waste Repository  
 LLW - Low Level Waste Disposal Site  
 TRP - Transportation Review  
 USR - Uranium MSR

NMSS APPLICATIONS FORECAST  
FY 1980/81

DATA AS OF : 05-09-80

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

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

CONTINUED ON NEXT PAGE

NMSS APPLICATIONS FORECAST  
FY 1980/81

| APPLICANT  | LOCATION   | FAC. TYPE  | APPL. TYPE   | BUDGET ESTIMATE SUBMITTAL DATE   | CURRENT ESTIMATE SUBMITTAL DATE  | PROJECT MANAGER(S)             |
|--|--|--|--|--|--|--------------------------------|
| EMERGENCY PLANNING #4<br>EMERGENCY PLANNING #5<br>EMERGENCY PLANNING #6<br>EMERGENCY PLANNING #7<br>EMERGENCY PLANNING #8<br>CLEAN AIR ACT #1<br>CLEAN AIR ACT #2<br>CLEAN AIR ACT #3<br>CLEAN AIR ACT #4<br>WESTINGHOUSE<br>EXXON NUCLEAR CORP.<br>UNITED NUCLEAR<br>BABCOCK & WILCOX<br>COMBUSTION ENGINEERING<br>GENERAL ATOMIC<br>GENERAL ELECTRIC | COLUMBIA, S.C.<br><br>WOOD RIVER JCT. RI<br>LYNCHBURG, VA<br>WINDSOR, CT<br><br>WILMINGTON, NC | UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF<br>UFF | AM<br>AM<br>AM<br>AM<br>AM<br>AM<br>AM<br>AM<br>AM<br>AM<br>RN<br>RN<br>RN<br>RN<br>RN<br>RN<br>RN<br>RN<br>RN<br>RN<br>RN | FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81 | FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81<br>FY81 |                                |
| KERR-MCGEE<br>BATTELLE MEM. LABS.<br>EXXON NUCLEAR CORP.   | COLUMBUS, OH<br>RICHLAND, WA   | PURD<br>PURD<br>PURD   | AM<br>AM<br>AM   | FY80<br>FY81<br>FY81   | FY80<br>FY81<br>FY81   |                                |
| KERR-MCGEE<br>KERR-MCGEE<br>KERR-MCGEE<br>ALLIED   | SEQUOYAH, OK   | UF6<br>UF6<br>UF6  | AM<br>AM<br>AM   | FY80<br>FY81<br>FY81   | FY80<br>FY81<br>FY81   |                                |
| CHEM-NUCLEAR SYSTEMS<br>CHEM-NUCLEAR SYSTEMS<br><br>SAVANNAH RIVER   | BARNWELL, SC<br>BARNWELL, SC<br><br>   | WASTE<br>WASTE<br><br>WASTE  | RN<br>NA<br><br>NA   | N/S<br>N/S<br><br>FY81   | 12-29-79C<br>03-12-80C<br><br>FY81   | K. DRAGONETTE<br>K. DRAGONETTE |
| DOE ISFSI (A)<br>DOE ISFSI (B)   |  | SFS<br>SFS   | NA<br>NA   | FY81<br>FY81   | FY81<br>FY81   |                                |
| DETROIT EDISON   | NEWPORT, MI  | RFS  | NA   | N/S  | 03-04-80C  | J. DELANEY                     |

N - New Application  
A - Amendment  
R - Renewal  
UOP - Uranium Ore Processing  
SIS - Solution Mining  
OSR - Other Solution Recovery  
UFF - Uranium Fuel Fabrication  
PURD - Plutonium R&D and Pilot Facility  
UFB - UF<sub>6</sub> Production  
SFS - Spent Fuel Storage  
NLW - High Level Waste Repository  
LLW - Low Level Waste Disposal Site  
TRP - Transportation Route  
UM - Uranium Mill

# IN-HOUSE MAJOR CASE REVIEW SCHEDULING

UPDATED BIMONTHLY

DATA AS OF: MAY 9, 1980

| APPLICANT  | LOCATION            | FACILITY TYPE | APPL TYPE | APPL REC'D | CURRENT CASE COMPLETION DATE |
|--|---------------------|---------------|-----------|------------|------------------------------|
| <b>URANIUM MILLING</b>   |                     |               |           |            |                              |
| NEW APPL<br>GULF MINERAL RES. CO.<br>PIONEER URANIUM, INC.<br>KERR-MCGEE CORP.<br>CYPRUS MINES CORP.<br>ANACONDA COPPER CO.<br>HOMESTAKE MINING CO.                        | MCKINLEY CO, NM     | U-MILL        | NA        | 09-78      | 05-07-80                     |
|  | SAN MIGUEL CO., CO  | U-MILL        | NA        | 06-79      | 06-30-80                     |
|  | CONVERSE CO., WY    | U-MILL        | NA        | 08-77      | N/S                          |
|  | FREMONT CO., CO     | U-MILL        | NA        | 08-79      | 06-27-80                     |
|  | MCMULLEN CO., TX    | U-MILL        | NA        | 02-80      | N/S                          |
|  | SAN JUAN CO., WY    | U-MILL        | NA        | 02-80      | N/S                          |
|  |                     |               |           |            |                              |
| RENEWALS & MAJOR MOD<br>FEDERAL-AMER. PTRRS.<br>EXXON MINERALS<br>UNION CARBIDE<br>WESTERN NUCLEAR<br>UNION CARBIDE<br>PINAL MINERALS &<br>MINING, LTD.<br>DAWN MINING CO. | RIVERTON, WY.       | U-MILL        | RN        | 03-78      | N/S                          |
|  | CONVERSE CO., WY    | U-MILL        | RN        | 07-78      | N/S                          |
|  | GAS HILLS, WY       | U-MILL        | RN        | 03-76      | 07-12-80                     |
|  | JEFFREY CITY, WY    | U-MILL        | RN        | 04-73      | 06-09-80                     |
|  | MONTROSE CO., CO    | U-MILL        | RN        | 02-79      | N/S                          |
|  | GILA CO., AZ        | U-MILL        | RN        | 09-79      | N/S                          |
| FORD, WA.  | U-MILL              | RN            | 09-79     | 12-01-80   |                              |
|  |                     |               |           |            |                              |
| AMENDMENTS<br>BEAR CREEK URANIUM<br>TENNESSEE VALLEY AUTH.<br>COTTER CORP  | CONVERSE CO., WY    | U-MILL        | AM        | 09-78      | 10-24-80                     |
|  | EDGEMONT, SD        | U-MILL        | AM        | 01-79      | N/S                          |
|  | FREMONT CO., CO     | U-MILL        | AM        | 01-79      | 05-30-80                     |
| <b>FUEL STORAGE</b>  |                     |               |           |            |                              |
| NEW APPL<br>LONG ISLAND LIGHTING CO<br>SOUTH CAL. EDISON &<br>SAN DIEGO GAS & ELEC<br>DETROIT EDISON   | SUFFOLK COUNTY, NY  | FUEL STORAGE  | NA        | 09-78      | N/S                          |
|  | ROSEMEND, CA        | FUEL STORAGE  | NA        | 07-78      | N/S                          |
|  | NEWPORT, MI         | FUEL STORAGE  | NA        | 03-80      | 12-15-80                     |
|  |                     |               |           |            |                              |
| AMENDMENTS<br>DUKE POWER COMPANY<br>GENERAL ELECTRIC   | MECKLENBERG CO., NC | STORAGE       | AM        | 03-78      | N/S                          |
|  | MORRIS, IL          | CAP. INCREASE | AM        | 05-77      | N/S                          |
| RENEWALS<br>GENERAL ELECTRIC   | MORRIS, IL          | OPERATION     | RN        | 02-79      | N/S                          |

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IN-HOUSE MAJOR CASE REVIEW SCHEDULING  
UPDATED BIMONTHLY

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

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IN-HOUSE MAJOR CASE REVIEW SCHEDULING  
UPDATED BIMONTHLY

| APPLICANT   | LOCATION       | FACILITY TYPE   | APPL TYPE | APPL REC'D | CURRENT CASE COMPLETION DATE |
|---|----------------|-----------------|-----------|------------|------------------------------|
| DOE, S-6213<br>DOE S 2 W/ S 2 W A<br>DOE, ANL-402-SPM<br>DOE, ORNL LOOP<br>DOE, ANL-390-SPM<br>NUCLEAR ASSURANCE<br>CORP. NAC-3K SPENT<br>FUEL CASK | WASHINGTON, DC | TRANSPORTATION  | NA        | 07-78      | N/S                          |
|   | WASHINGTON, DC | -               | NA        | 04-76      | N/S                          |
|   | CHICAGO, IL    | -               | NA        | 12-77      | N/S                          |
|   | OAK RIDGE, IN  | -               | NA        | 07-78      | 05-31-80                     |
|   | CHICAGO, IL    | -               | NA        | 12-77      | N/S                          |
|   | ATLANTA, GA    | -               | NA        | 12-78      | N/S                          |
| NUCLEAR ENGINEERING<br>SOUTHWEST NUCLEAR, INC.<br>CHEM-NUCLEAR SYSTEMS<br>CHEM-NUCLEAR SYSTEMS  | SHEFFIELD, IL  | LOW LEVEL WASTE |           |            |                              |
|   | LYONS, KS      | WASTE BURIAL    | RN/AM     | 08-68      | N/S                          |
|   | BARNWELL, SC   | WASTE BURIAL    | NA        | 09-78      | N/S                          |
|   | BARNWELL, SC   | WASTE BURIAL    | RN        | 12-79      | N/S                          |
|   | BARNWELL, SC   | WASTE BURIAL    | NA        | 03-80      | N/S                          |

SUMMARY OF IN-HOUSE MAJOR CASES

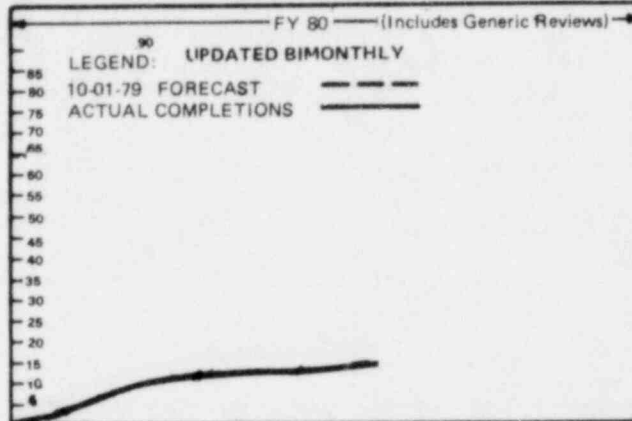
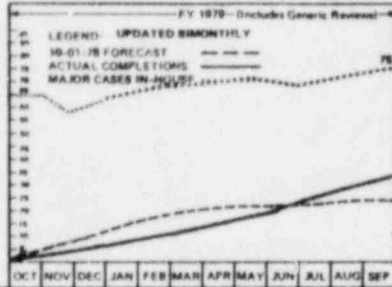
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|-----------------------|----|
| U-MILLS               |    |
| New Applications..... | 6  |
| Renewals.....         | 7  |
| Amendments.....       | 3  |
| FUEL STORAGE          |    |
| New Applications..... | 3  |
| Renewals.....         | 1  |
| Amendments.....       | 2  |
| IN-SITU               |    |
| New Applications..... | 3  |
| Renewals.....         | 2  |
| Amendments.....       | 1  |
| URANIUM FUEL FAB      |    |
| New Applications..... | 1  |
| Renewals.....         | 4  |
| Amendments.....       | 5  |
| Generic EIS.....      | 1  |
| PLUTONIUM FUEL FAB    |    |
| Renewals.....         | 3  |
| Amendments.....       | 4  |
| NON-CASE.....         | 2  |
| TRANSPORTATION.....   | 5  |
| LOW LEVEL WASTE.....  | 4  |
| SAFEGUARDS.....       | 3  |
| TOTAL.....            | 61 |

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# NMSS MAJOR CASEWORK

## MAJOR CASEWORK: COMPLETIONS DATA AS OF: MAY 9, 1980



| FY 1979 - (Includes Generic Reviews) |  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--------------------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CUMULATIVE BUDGET FORECAST BY MONTH  |  | 5   | 7   | 10  | 15  | 18  | 20  | 21  | 21  | 21  | 22  | 24  | 24  |
| NEW APPLICATIONS                     |  | 2   | 1   |     |     | 2   | 2   |     | 1   | 8   |     | 2   | 1   |
| RENEWALS                             |  | 1   |     |     |     | 1   |     | 1   |     |     |     |     |     |
| MAJOR MODIFICATIONS                  |  |     |     |     |     |     |     |     | 3   | 1   | 1   | 1   |     |
| TRANSPORTATION REVIEWS               |  |     |     |     |     |     |     |     |     |     |     |     |     |
| GENERIC & OTHER                      |  |     |     |     | 1   | 1   |     |     |     |     | 1   | 1   |     |
| CUMULATIVE TOTAL                     |  | 3   | 4   | 5   | 7   | 12  | 14  | 18  | 19  | 25  | 27  | 31  | 32  |

| FY 80 - (Includes Generic Reviews)  |  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CUMULATIVE BUDGET FORECAST BY MONTH |  |     |     |     |     |     |     |     |     |     |     |     |     |
| NEW APPLICATIONS                    |  |     |     |     | 1   |     |     | 1   |     |     |     |     |     |
| RENEWALS                            |  |     |     | 1   |     |     |     |     |     |     |     |     |     |
| MAJOR MODIFICATIONS                 |  |     |     |     |     |     |     |     |     |     |     |     |     |
| AMENDMENTS                          |  |     | 4   | 1   |     |     |     | 1   |     |     |     |     |     |
| TRANSPORTATION REVIEWS              |  | 2   |     |     |     |     | 1   |     |     |     |     |     |     |
| GENERIC & OTHER                     |  | 1   | 1   |     |     | 1   |     | 1   |     |     |     |     |     |
| CUMULATIVE TOTAL                    |  | 3   | 8   | 10  | 11  | 12  | 13  | 16  |     |     |     |     |     |

### COMPLETIONS

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

| FY 80 - (Includes Generic Reviews)  |  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CUMULATIVE BUDGET FORECAST BY MONTH |  |     |     |     |     |     |     |     |     |     |     |     |     |
| NEW APPLICATIONS                    |  |     |     |     | 1   |     |     | 1   |     |     |     |     |     |
| RENEWALS                            |  |     |     | 1   |     |     |     |     |     |     |     |     |     |
| MAJOR MODIFICATIONS                 |  |     |     |     |     |     |     |     |     |     |     |     |     |
| AMENDMENTS                          |  |     | 4   | 1   |     |     |     | 1   |     |     |     |     |     |
| TRANSPORTATION REVIEWS              |  | 2   |     |     |     |     | 1   |     |     |     |     |     |     |
| GENERIC & OTHER                     |  | 1   | 1   |     |     | 1   |     | 1   |     |     |     |     |     |
| CUMULATIVE TOTAL                    |  | 3   | 8   | 10  | 11  | 12  | 13  | 16  |     |     |     |     |     |

### \*MAJOR FUEL CYCLE CASES COMPLETED\* FY 80

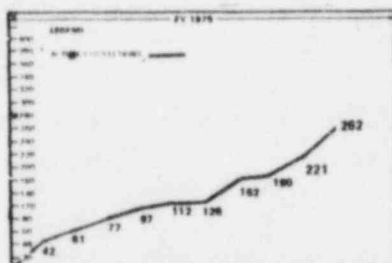
| APPLICANT               | LOCATION         | FACILITY TYPE | COMPLETED | LICENSE TYPE |
|-------------------------|------------------|---------------|-----------|--------------|
| NL INDUSTRIES           | WILMINGTON, DE   | TRANS.        | 10-12-79  | NL           |
| GENERAL ATOMICS         | SAN DIEGO, CA    | TRANS.        | 10-15-79  | NL           |
| MARTIN-TRUST ASSOC.     | KERN CO., CA     | U-MILL        | 10-16-79  | NC           |
| GATES & FOX CORP.       | NATURITA, CO     | U-MILL        | 11-05-79  | NC           |
| WESTINGHOUSE            | CHESWICK, PA     | PUFFP         | 11-06-79  | AL           |
| COMBUSTION ENGINEERING  | WINDSOR, CT      | UFFP          | 11-09-79  | AL           |
| COMBUSTION ENGINEERING  | HEMATITE, MO     | UFFP          | 11-09-79  | AL           |
| ATLAS MINERALS          | MOAB, UT         | U-MILL        | 11-23-79  | AL           |
| NUCLEAR ENGINEERING CO. | HANFORD, WA      | LLW           | 12-04-79  | RN           |
| UNITED NUCLEAR CORP.    | WOOD R. JCT, RI  | UFFP          | 12-10-79  | AL           |
| TETON EXPLORATION       | CONVERSE CO., WY | SOL           | 01-08-80  | NL           |
| BOKUM RESOURCES         | SANDOVAL CO., NM | U-MILL        | 02-04-80  | NC           |
| NUCLEAR PACKAGING, INC. | TACOMA, WA       | TRANS.        | 03-20-80  | NL           |
| UNITED NUCLEAR          | UNCASVILLE, CT   | UFFP          | 04-07-80  | AL           |
| KERR-MCGEE CORP.        | CONVERSE CO., WY | SOL           | 04-08-80  | NL           |
| PHILLIPS URANIUM CORP.  | MCKINLEY CO., NM | U-MILL        | 05-09-80  | TA           |

KEY:  
 NL = NEW LICENSE  
 RL = RENEWAL LICENSE  
 AL = AMENDED LICENSE  
 NC = NON CASE (NO LICENSE ISSUED)  
 TL = TERMINATED LICENSE

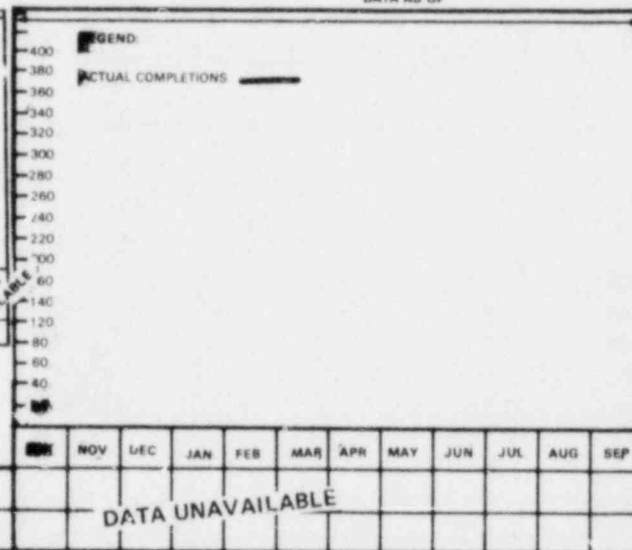
# NMSS MINOR CASEWORK

## MINOR CASEWORK COMPLETIONS

DATA AS OF



| Month                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| COMPLETED            | 21  | 33  | 33  | 54  | 64  | 76  | 106 | 110 | 137 | 150 |     |
| COMPLETED SAFEGUARDS | 18  | 26  | 64  | 43  | 48  | 58  | 57  | 71  | 84  | 101 |     |



**DESCRIPTION:**

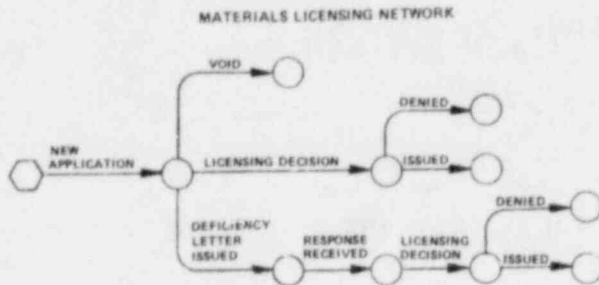
THIS CHART SHOWS THE NUMBER OF MINOR CASEWORK COMPLETIONS ESTIMATED TO BE COMPLETED BY MONTH AND ACTUAL COMPLETIONS.

|                                   |  |
|-----------------------------------|--|
| COMPLETED                         |  |
| COMPLETED SAFEGUARDS              |  |
| COMPLETED SAFEGUARDS (CUMULATIVE) |  |

DATA UNAVAILABLE

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

# NMSS - MATERIALS LICENSING DATA



## GLOSSARY OF TERMS

AMENDMENT - Major addition or change to existing license.

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

DENIAL - License application denied.

NEW APPLICATION - Initial licensing application.

RENEWAL - Resubmission after five years to reevaluate licensee program.

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

## END OF MONTH INVENTORY (PENDING DEFICIENCY LETTERS NOT INCLUDED) Data as of: MAY 9, 1980

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

|               | OCT  | NOV  | DEC  | JAN  | FEB | MAR  | APR | MAY | JUN | JUL | AUG | SEP |
|---------------|------|------|------|------|-----|------|-----|-----|-----|-----|-----|-----|
| > 90 DAYS     | 268  | 262  | 293  | 297  | 293 | 279  | 220 |     |     |     |     |     |
| 60 TO 89 DAYS | 113  | 96   | 110  | 108  | 73  | 80   | 63  |     |     |     |     |     |
| 30 TO 59 DAYS | 156  | 171  | 181  | 142  | 120 | 111  | 131 |     |     |     |     |     |
| < 30 DAYS     | 485  | 530  | 554  | 509  | 473 | 587  | 527 |     |     |     |     |     |
| TOTAL         | 1022 | 1083 | 1138 | 1056 | 959 | 1057 | 941 |     |     |     |     |     |

## APPLICATIONS > 90 DAYS

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

|                  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| NEW APPLICATIONS | 7   | 5   | 8   | 10  | 4   | 1   | 3   |     |     |     |     |     |
| AMENDMENTS       | 21  | 18  | 29  | 22  | 21  | 14  | 7   |     |     |     |     |     |
| RENEWALS         | 240 | 263 | 256 | 265 | 268 | 264 | 210 |     |     |     |     |     |
| TOTAL            | 268 | 286 | 293 | 297 | 293 | 279 | 220 |     |     |     |     |     |

# NMSS - MATERIALS LICENSING DATA

## APPLICATIONS RECEIVED

Data as of: MAY 9, 1980

-----FY-1980-----

|                                     | OCT        | NOV        | DEC        | JAN        | FEB        | MAR        | APR        | MAY | JUN | JUL | AUG | SEP | FY-80<br>TOTAL |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|-----|-----|-----|-----|-----|----------------|
| NEW APPLICATIONS                    | 83         | 65         | 72         | 68         | 63         | 76         | 74         |     |     |     |     |     | 501            |
| AMENDMENTS                          | 328        | 303        | 301        | 330        | 315        | 330        | 320        |     |     |     |     |     | 2227           |
| RENEWALS                            | 82         | 68         | 75         | 83         | 50         | 82         | 53         |     |     |     |     |     | 493            |
| RESPONSES TO<br>DEFICIENCY REQUESTS | 160        | 143        | 120        | 138        | 171        | 138        | 156        |     |     |     |     |     | 1026           |
| <b>TOTAL</b>                        | <b>563</b> | <b>579</b> | <b>568</b> | <b>619</b> | <b>599</b> | <b>626</b> | <b>603</b> |     |     |     |     |     | <b>4247</b>    |

## LICENSING ACTIONS COMPLETED (APPLICATIONS LICENSED)

-----FY-1980-----

|                     | OCT        | NOV        | DEC        | JAN        | FEB        | MAR        | APR        | MAY | JUN | JUL | AUG | SEP | FY-80<br>TOTAL |
|---------------------|------------|------------|------------|------------|------------|------------|------------|-----|-----|-----|-----|-----|----------------|
| NEW APPLICATIONS    | 47         | 50         | 41         | 62         | 73         | 57         | 92         |     |     |     |     |     | 422            |
| AMENDMENTS          | 228        | 197        | 186        | 269        | 275        | 228        | 296        |     |     |     |     |     | 1679           |
| RENEWALS            | 70         | 51         | 69         | 86         | 75         | 65         | 89         |     |     |     |     |     | 505            |
| <b>TOTAL</b>        | <b>345</b> | <b>298</b> | <b>296</b> | <b>417</b> | <b>423</b> | <b>350</b> | <b>477</b> |     |     |     |     |     | <b>2606</b>    |
| DEFICIENCY REQUESTS | 214        | 199        | 178        | 238        | 230        | 198        | 216        |     |     |     |     |     | 1473           |
| VOIDS               | 40         | 47         | 40         | 47         | 44         | 44         | 43         |     |     |     |     |     | 305            |

## MONTHLY SUMMARY

-----FY-1980-----

|                                 | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY | JUN | JUL | AUG | SEP | FY-80<br>TOTAL |
|---------------------------------|------|------|------|------|------|-------|-------|-----|-----|-----|-----|-----|----------------|
| BEGINNING OF<br>MONTH INVENTORY | 967  | 1022 | 1083 | 1138 | 1056 | 995*  | 1074* |     |     |     |     |     | 7335           |
| INPUT                           | 654  | 605  | 569  | 620  | 600  | 655   | 603   |     |     |     |     |     | 4306           |
| OUTPUT                          | 599  | 544  | 514  | 702  | 697  | 592   | 736   |     |     |     |     |     | 4384           |
| END OF THE<br>MONTH INVENTORY   | 1022 | 1083 | 1138 | 1056 | 959  | 1058* | 941   |     |     |     |     |     | 7257           |

\* BEGINNING AND END OF MONTH INVENTORIES DO NOT CORRELATE. NMSS ATTRIBUTES THIS TO A CHANGE IN THE COMPUTER REPORTING SYSTEM.

## NMSS - MATERIALS LICENSING DATA TOTAL TURN AROUND TIME

Data as of: MAY 9, 1980

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

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

|                                     | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| > 90 DAYS                           | 117 | 84  | 103 | 148 | 168 | 103 | 170 |     |     |     |     |     |
| 60 TO 89 DAYS                       | 41  | 35  | 41  | 45  | 45  | 44  | 99  |     |     |     |     |     |
| 30 TO 59 DAYS                       | 66  | 88  | 63  | 101 | 79  | 87  | 55  |     |     |     |     |     |
| < 30 DAYS                           | 121 | 91  | 89  | 123 | 131 | 116 | 153 |     |     |     |     |     |
| TOTAL COMPLETED                     | 345 | 298 | 296 | 417 | 423 | 350 | 477 |     |     |     |     |     |
| COMPOSITE AVERAGE<br>TIME (IN DAYS) | 95  | 77  | 98  | 103 | 104 | 84  | 94  |     |     |     |     |     |

### NEW APPLICATIONS TURN AROUND TIME

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

|   | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| > 90 DAYS                               | 22  | 14  | 12  | 24  | 23  | 14  | 33  |     |     |     |     |     |
| 60 TO 89 DAYS                           | 6   | 6   | 6   | 6   | 11  | 8   | 15  |     |     |     |     |     |
| 30 TO 59 DAYS                           | 8   | 18  | 11  | 13  | 20  | 15  | 21  |     |     |     |     |     |
| < 30 DAYS                               | 11  | 12  | 12  | 19  | 19  | 20  | 23  |     |     |     |     |     |
| TOTAL                                   | 47  | 50  | 41  | 62  | 73  | 57  | 92  |     |     |     |     |     |
| AVERAGE<br>TURNAROUND TIME<br>(IN DAYS) | 97  | 67  | 67  | 83  | 78  | 58  | 99  |     |     |     |     |     |

### AMENDMENTS TURN AROUND TIME

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

|   | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| > 90 DAYS                               | 50  | 36  | 48  | 64  | 95  | 52  | 61  |     |     |     |     |     |
| 60 TO 89 DAYS                           | 27  | 24  | 30  | 32  | 23  | 25  | 34  |     |     |     |     |     |
| 30 TO 59 DAYS                           | 45  | 60  | 45  | 76  | 50  | 61  | 66  |     |     |     |     |     |
| < 30 DAYS                               | 106 | 77  | 63  | 97  | 107 | 90  | 135 |     |     |     |     |     |
| TOTAL                                   | 228 | 197 | 186 | 269 | 275 | 228 | 296 |     |     |     |     |     |
| AVERAGE<br>TURNAROUND TIME<br>(IN DAYS) | 73  | 59  | 79  | 72  | 83  | 62  | 65  |     |     |     |     |     |

# NMSS - MATERIALS LICENSING DATA

TURN AROUND TIME  
RENEWALS

Data as of: MAY 9, 1980

DESCRIPTION:

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

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

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

**SECTION IV -**

**STANDARDS AND REGULATIONS**



# PROGRAM OVERVIEW TASK WORKLOAD STATUS

JANUARY 1, 1980 TO MARCH 31, 1980

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

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

NOTE: THIS BOARD IS UPDATED QUARTERLY

## REGULATORY GUIDES

### OCTOBER

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

### NOVEMBER

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

### DECEMBER

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

### JANUARY

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

### FEBRUARY

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

CONTINUED ON NEXT PAGE

## REGULATORY GUIDES

|                   |   | DRAFT<br>GUIDE | ACTIVE<br>GUIDE |
|-------------------|---|----------------|-----------------|
| <u>MARCH</u>      |   |                |                 |
| RG 8.14/ OH 940-4 | PROPOSED REV. 2, "PERSONNEL NEUTRON DOSIMETERS"   | X              |                 |
| <u>APRIL</u>      |   |                |                 |
| RG 10.9/ OH 706-4 | "GUIDE FOR PREPARATION OF APPLICATIONS FOR LICENSEES FOR THE USE OF GAMMA IRRADIATORS"                      | X              |                 |
| RG 5.60/ SG 904-4 | "STANDARD FORMAT AND CONTENT OF A LICENSEE PHYSICAL PLAN FOR STRATEGIC SPECIAL NUCLEAR MATERIAL IN TRANSIT" | X              |                 |

### TASKS COMPLETED

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

## ANSI STANDARDS PUBLISHED

|          |                               |   |
|----------|-------------------------------|---|
| OCTOBER  | ANSI/ASME<br>NQA-1<br>1979    | QUALITY ASSURANCE PROGRAM REQUIREMENTS<br>FOR NUCLEAR POWER PLANTS  |
|          | ANSI/ASME<br>N45.2.20<br>1979 | SUPPLEMENTARY QUALITY ASSURANCE REQUIREMENTS<br>FOR SUBSURFACE INVESTIGATIONS FOR NUCLEAR<br>POWER PLANTS |
|          | ANSI/ANS<br>15.18<br>1979     | ADMINISTRATIVE CONTROLS FOR RESEARCH REACTORS   |
|          | ANSI/ANS<br>55.4<br>1979      | GASEOUS RADIOACTIVE WASTE PROCESSING SYSTEMS<br>FOR LIGHT WATER REACTOR PLANTS                            |
| DECEMBER | ANSI/ANS<br>3.7.2<br>1979     | EMERGENCY CONTROL CENTERS FOR NUCLEAR POWER PLANTS  |
|          | ANSI/ANS<br>3.7.1<br>1979     | FACILITIES AND MEDICAL CARE FOR ON-SITE NUCLEAR POWER<br>PLANT RADIOLOGICAL EMERGENCIES                   |
|          | ANSI/ANS<br>59.4<br>1979      | LIGHT WATER NUCLEAR POWER PLANT FIRE PROTECTION,<br>GENERIC REQUIREMENTS FOR                              |
|          | ANSI/ANS<br>3.7.3<br>1979     | RADIOLOGICAL EMERGENCY PREPAREDNESS EXERCISES FOR<br>NUCLEAR POWER PLANTS                                 |
|          | ANSI/ANS<br>55.6<br>1979      | LIQUID RADIOACTIVE WASTE PROCESSING SYSTEM FOR LIGHT<br>WATER REACTOR PLANTS                              |
|          | ANSI/ANS<br>55.1<br>1979      | SOLID RADIOACTIVE WASTE PROCESSING SYSTEM FOR LIGHT<br>WATER COOLED REACTOR PLANTS                        |
| FEBRUARY | ANSI/IEEE<br>485<br>1979      | SIZING LARGE LEAD STORAGE BATTERIES FOR GENERATING<br>STATIONS AND SUBSTATIONS, RECOMMENDED PRACTICE FOR. |
| APRIL    | ANSI/ANS<br>6.6.1<br>1979     | "DIRECT AND SCATTERED GAMMA RADIATION FROM LWR NUCLEAR<br>POWER PLANTS, CALCULATION AND MEASUREMENT OF"   |
|          | ANSI/ANS<br>5.1<br>1979       | "SAFETY RELATED COOLING WATER SYSTEMS IN NUCLEAR<br>POWER PLANTS"   |

### TASKS COMPLETED

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

## NUREG REPORTS

|                       |                        |   |
|-----------------------|------------------------|---|
| OCTOBER               | CR-0510<br>MP 672-7    | "DURESS ALARMS FOR NUCLEAR FIXED SITE FACILITIES"   |
|                       | CR-1055<br>OH-613-9    | "CRITERIA AND TEST METHODS FOR CERTIFYING AIR PURIFYING RESPIRATORS AGAINST RADIOIODINE"  |
|                       | CR-0956<br>FP 712-9    | "COMMENTARY ON SPENT FUEL STORAGE AT MORRIS OPERATION"  |
| NOVEMBER<br>(3 VOLS.) | CR-1102<br>MP 750-7    | "A SYSTEMATIC ASSESSMENT OF THE SAFEGUARDS REGULATIONS"   |
|                       | CR-0485<br>MP 761-7    | "VEHICLE ACCESS & SEARCH TRAINING MANUAL"   |
|                       | CR-0484<br>MP 761-7    | "VEHICLE ACCESS & CONTROL PLANNING DOCUMENT"  |
|                       | CR-0509<br>MP 763-7    | "EMERGENCY POWER SUPPLIES FOR PHYSICAL SECURITY SYSTEMS"  |
|                       | CR-1057<br>OH-506-1    | "CONFIRMATION OF CONVERSION FACTORS RELATING EXPOSURE AND DOSE EQUIVALENT INDEX PRESENTED IN ANSI N13.11"                                 |
| DECEMBER              | CP-0008<br>FP 921-1    | "STATE WORKSHOPS FOR REVIEW OF THE NUCLEAR REGULATORY COMMISSION'S DECOMMISSIONING POLICY"  |
|                       | CR-0569<br>FP 917-7    | "FACILITATION OF DECOMMISSIONING LIGHT WATER REACTORS"  |
|                       | NUREG-0584<br>FP 918   | "ASSURING THE AVAILABILITY OF FUNDS FOR DECOMMISSIONING OF NUCLEAR FACILITIES."   |
|                       | NUREG-0590<br>(REV. 1) | "THOUGHTS ON REGULATION CHANGES FOR DECOMMISSIONING"  |
|                       | NUREG-0613<br>ES 813-8 | "RESIDUAL RADIOACTIVITY LIMITS FOR DECOMMISSIONING"   |
|                       | NUREG-0628<br>SD 906-1 | "NRC STAFF PRELIMINARY ANALYSIS OF PUBLIC COMMENTS ON ADVANCE NOTICE OF PROPOSED RULEMAKING ON EMERGENCY PLANNING"                        |
| JANUARY               | CR-1235<br>OH-607-9    | "EVALUATION AND PERFORMANCE OF OPEN CIRCUIT BREATHING APPARATUS"  |
|                       | CR-1063<br>OH-506-1    | "PERFORMANCE TESTING OF PERSONNEL DOSIMETRY SERVICES: PROCEDURES MANUAL"  |
|                       | CR-1065<br>OH-506-1    | "PERFORMANCE TESTING OF PERSONNEL DOSIMETRY SERVICES: FINAL REPORT OF A TWO-YEAR PILOT STUDY"   |
|                       | CR-1204<br>OH-506-1    | "THE DESIGN AND CONSTRUCTION OF A D20-MODERATED 252CF SOURCE FOR CALIBRATING NEUTRON PERSONNEL DOSIMETERS USED AT NUCLEAR POWER REACTORS" |

CONTINUED ON NEXT PAGE

## NUREG REPORTS

|          |                        |  |
|----------|------------------------|--|
| FEBRUARY | CR-1214<br>MP 685-7    | "THE CONTROLLABLE UNIT APPROACH TO MATERIAL CONTROL:<br>APPLICATIONS TO A HIGH THROUGHPUT MIXED-OXIDE PROCESS"                               |
|          | NUREG-0628<br>ES 906-1 | "NRC STAFF PRELIMINARY ANALYSIS OF PUBLIC COMMENTS ON<br>ADVANCE NOTICE OF PROPOSED RULEMAKING ON EMERGENCY<br>FLANNING"                     |
| MARCH    | CR-1039<br>TP 604-9    | TOPICAL REPORT, "ESTIMATED RADIATION DOSES FROM<br>THORIUM AND DAUGHTERS CONTAINED IN THORIATED<br>WELDING ELECTRODES", 45 FR 15349, 3/10/80 |
| APRIL    | CR-1304<br>OH 506-1    | "PERFORMANCE TESTING OF PERSONNEL DOSIMETRY SERVICES:<br>SUPPLEMENTARY REPORT OF A TWO-YEAR PILOT STUDY"                                     |
|          | CR-1419<br>OH 805-9    | "COST-BENEFIT EFFECTS OF CONVERSION TO SI UNITS IN<br>HEALTH PHYSICS"  |
|          | CR-1142<br>MP 872-7    | "REMOTE RESPONSES MECHANISMS"  |
|          | CR-1223<br>FP 516      | "DRY STORAGE OF SPENT NUCLEAR FUEL"  |

|               | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Number Issued | 3   | 5   | 6   | 4   | 2   | 1   | 4   |     |     |     |     |     |

### OTHER SD PRODUCTS

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

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

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

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

### ENVIRONMENTAL IMPACT STATEMENTS

### PETITION DENIALS

OCTOBER

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 71-7 TP 821-3 "(1) REMOVE APPENDIX E - QUALITY ASSURANCE CRITERIA  
FOR SHIPPING PACKAGES FOR RADIOACTIVE MATERIAL -  
FROM 10 CFR PART 71, AND (2) DELAY THE EFFECTIVE  
DATE OF IMPLEMENTATION OF PART 71, APPENDIX E"

DECEMBER

TP 808-3 DENIAL OF A PETITION TO DELETE THE 180 DAY RESTRICTION  
IN 10 CFR 150.20(B)(3) FOR NON-AGREEMENT STATE USE OF  
RADIOACTIVE MATERIAL

## AMENDMENTS TO AND NEW NRC REGULATIONS

|          |  | PROPOSED<br>RULE | EFFECTIVE<br>RULE |
|----------|--|------------------|-------------------|
| OCTOBER  | REPORTING OF SAFEGUARDS EVENTS PROPOSED REGULATIONS 44 FR 60743  | X                |                   |
|          | OH 721-1 AMENDMENT OF 10 CFR PART 34, RADIOGRAPHY SAFETY, PUBLISHED IN FEDERAL REGISTER OCT. 2, 1979, 44 FR 50805  |                  | X                 |
| NOVEMBER | TP916-1 NOTICE PROPOSING TO AMEND 55 32.26(B) (10) AND 32.29(B) TO PROVIDE NEW REQUIREMENTS FOR LABELING THE EXTERNAL SURFACES OF NOT ONLY GAS AND AEROSOL DETECTORS INCLUDING SMOKE DETECTORS, BUT ALSO THE POINT-OF-SALE PACKAGING OF THESE DETECTORS IF PACKAGED INDIVIDUALLY | X                |                   |
| DECEMBER | 10 CFR PART50 EMERGENCY PLANNING 44 FR 75167   | X                |                   |
|          | REVISION OF PART 71 TO REQUIRE NRC LICENSEES TO MEET DOT REQUIREMENTS. NO TASK NO. ASSIGNED SHOULD BE CREDITED TO DECISION UNIT 2, PLANNED ACCOMPLISHMENT 3.   |                  | X                 |
| JANUARY  | SG 925-1 TRANSIENT SHIPMENTS OF STRATEGIC SNM  | X                |                   |
|          | MP 711-1 PHYSICAL PROTECTION OF IN-TRANSIT OF MODERATE STRATEGIC SIGNIFICANCE  | X                |                   |
|          | PART 21 REFERENCE IN PART 34, PUBLISHED IN FED. REG. 1/11/80 FR 45-2312  | X                |                   |
|          | SC 905-1 10CFR50, REV. APPENDIX J, AMENDMENTS TO THE REQUIREMENTS FOR LEAK TESTING OF CONTAINMENT BUILDING AIR LOCKS IN ORDER TO PERMIT GREATER FLEXIBILITY FOR SUCH TESTING IN THE CASE OF FREQUENT USE OF THE AIR LOCKS  | X                |                   |
|          | OH 019-1 AMENDMENT OF 10 CFR PART 34, PART 21 REFERENCE IN PART 34, PUBLISHED IN FEDERAL REGISTER JAN. 11, 1980, FR 45-2312  |                  | X                 |
| FEBRUARY | FP 903-2 10 CFR PARTS 40 AND 150, URANIUM MILL TAILINGS LICENSING  |                  | X                 |
|          | AMENDMENT TO PART 50, DOMESTIC LICENSING OF PRODUCTION AND UTILIZATION FACILITIES  |                  | X                 |
| MARCH    | "CORRECTION OF U.S. POSTAL SERVICE REGULATION REFERENCE" 45 FR 20462, 3/28/80, 10 CFR PART 71  |                  | X                 |
|          | RS 706-8 "PROTECTION FOR EMPLOYEES WHO PROVIDE INFORMATION TO THE NRC", 45 FR 15184, 3/10/80   | X                |                   |
|          | RS 617-3 "NO SIGNIFICANT HAZARDS CONSIDERATION", 45 FR 20491, 3/22/80 RESPONSE TO PETITION FOR RULEMAKING (PRM-50-17), 5/7/76  | X                |                   |
|          | RH 007-1 "TO AMEND THE GENERAL LICENSE IN SECTION 40.22" PUBLISHED ON 3/6 IN THE FR TO DELETE MATERIAL MEDICINALS FROM THE GENERAL LICENSE FOR SMALL QUANTITIES OF SOURCE MATERIAL IN SEC. 40.22.  | X                |                   |
|          | SG 930-1 "ACCESS CONTROLS TO NUCLEAR POWER PLANT VITAL AREAS", 45 FR 15937, 3/12/80  | X                |                   |
|          | MP 711-1 "EXTENSION OF DATES FOR IMPLEMENTATION OF CATEGORY II AND III MATERIALS REQUIREMENTS", 45 FR 19215, 3/25/80   |                  | X                 |
|          | SG 929-1 "GENERAL LICENSING REQUIREMENTS FOR CARRIERS OF IRRADIATED SNM IN-TRANSIT", 45 FR 15936, 3/12/80  | X                |                   |
|          | OH 939-1 AMENDMENT OF 10 CFR PART 19, EXIT INTERVIEWS, PUBLISHED IN FEDERAL REGISTER MARCH 26, 1980, FR 45-19564   | X                |                   |
|          | OH 506-1 ADVANCE NOTICE OF RULEMAKING, 10 CFR PART 20, PERFORMANCE TESTING FOR PERSONNEL DOSIMETRY, PUBLISHED IN FEDERAL REGISTER MARCH 28, 1980, FR 45-20493  | X                |                   |

|                           | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Proposed Rules Published  | 1   | 1   | 1   | 4   | 0   | 7   |     |     |     |     |     |     |
| Effective Rules Published | 1   | 0   | 1   | 1   | 2   | 2   |     |     |     |     |     |     |



# SUMMARY OF SELECTED STANDARDS STATISTICS

COMPLETED ACTIONS  
FY 1979 AND FY 1980

|                                 | 10-01-78<br>THRU<br>09-30-79<br>(12 MONTHS) | 10-01-79<br>THRU<br>04-30-80<br>(7 MONTHS) |
|---------------------------------|---|--|
| DRAFT GUIDES ISSUED             | 39  | 9  |
| ACTIVE GUIDES ISSUED            | 22  | 9  |
| ANSI STANDARDS PUBLISHED        | 31  | 13   |
| DRAFT ENV. STATEMENTS PUBLISHED | 0   | 0  |
| FINAL ENV. STATEMENTS PUBLISHED | 1   | 0  |
| PROPOSED RULES PUBLISHED        | 11  | 14   |
| EFFECTIVE RULES PUBLISHED       | 17  | 7  |
| RULEMAKING PETITIONS DENIED     | 6   | 2  |
| RULEMAKING PETITIONS APPROVED   | 0   | 0  |
| RULEMAKING PETITIONS WITHDRAWN  | 0   | 0  |
| NUREG REPORTS ISSUED            | 37  | 25   |
| OTHER SD PRODUCTS               | 4   | 4  |

## NRC POLICY STATEMENTS AS LISTED IN THE FEDERAL REGISTER

DATA AS OF: APRIL 30, 1980

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

## NRC POLICY STATEMENTS

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

**SECTION V -**  
**RESEARCH PROJECTS**

# NUCLEAR REGULATORY RESEARCH DATA AS OF: APRIL 22, 1980

LOFT (LOSS OF FLUID TEST)

NO UPDATE PROVIDED

## PURPOSE:

THE LOFT FACILITY IS A WELL INSTRUMENTED PRESSURIZED WATER REACTOR (PWR) AT ABOUT 1/60 THE POWER LEVEL AND 1/5 THE PHYSICAL SIZE OF A COMMERCIAL PWR. IT IS LOCATED AT THE IDAHO NATIONAL ENGINEERING LABORATORY AND IS DESIGNED TO STUDY THE BEHAVIOR OF ENGINEERED SAFETY FEATURES, SUCH AS EMERGENCY CORE COOLING SYSTEMS, DURING POSTULATED REACTOR ACCIDENT CONDITIONS. DATA FROM LOFT EXPERIMENTS ARE BEING USED (A) TO ASSESS AND IMPROVE THE ANALYTICAL METHODS CURRENTLY USED TO PREDICT THE COURSE OF VARIOUS LOSS OF COOLANT ACCIDENTS AND OFF-NORMAL TRANSIENTS, AND (B) TO STUDY IMPROVEMENTS IN ON-LINE DATA PROCESSING AND DISPLAY FOR THE ENHANCEMENT OF OPERATOR CAPABILITY.

## STATUS:

1. THE SECOND POWERED SMALL-BREAK TEST, L3-2, SIMULATING A 1" BREAK IN A COMMERCIAL PWR, WAS SUCCESSFULLY RUN ON FEBRUARY 6, 1980. AFTER DEPRESSURIZING TO 900 PSIA, THE ECCS (HPSI) AND THE BREAK FLOWS BECAME EQUAL, AND THE SYSTEM PRESSURE STABILIZED. AFTER ONE HOUR, ACCORDING TO PLAN, OPERATOR INTERVENTION CAUSED A COOLDOWN THROUGH THE SECONDARY SIDE AND DEPRESSURIZATION AND WITHIN ABOUT SIX HOURS BROUGHT THE PLANT TO A COLD SHUTDOWN. AS A RESULT OF AN INVITATION TO REPRESENTATIVES OF THE NUCLEAR INDUSTRY TO ATTEND A SPECIAL BRIEFING IN LOFT AND TO WITNESS THE L3-2 TEST, ABOUT 15 REPRESENTATIVES OF VENDOR COMPANIES, INPO AND EPRI PARTICIPATED IN THESE EVENTS.
2. A FAULT DIAGNOSTICS SYSTEM TO ASSIST OPERATOR INTERPRETATION OF OFF-NORMAL AND ACCIDENT CONDITIONS HAS BEEN INSTALLED IN LOFT. REACTOR SYSTEM STATUS DISPLAYS WERE FUNCTIONING DURING THE L3-2 TEST.
3. THE NEXT FEW TESTS WILL CONSIST OF TEST PAIRS - AN OPERATIONAL TRANSIENT, FOLLOWED WITHIN A WEEK BY A SMALL BREAK LOCA. THE FIRST SUCH PAIR IS SCHEDULED FOR THE FIRST HALF OF JUNE 1980. IT WILL CONSIST OF A LOSS OF FEEDWATER (L6-5) FOLLOWED BY A 1-INCH LOCA, L3-7, DESIGNED TO INVESTIGATE CONDITIONS OF REFLUX BOILING IN THE STEAM GENERATOR, AND BY CLOSING THE BREAK, THE EFFECTS OF REPRESSURIZING THE PRIMARY SYSTEM.

# NUCLEAR REGULATORY RESEARCH

DATE AS OF: APRIL 22, 1980

SEMISCALE

NO UPDATE PROVIDED

THE SEMISCALE MOD 3 CONFIGURATION IS A ONE-DIMENSIONAL NON-NUCLEAR REPRESENTATION OF THE THERMAL HYDRAULIC BEHAVIOR OF A PRESSURIZED WATER REACTOR, DESIGNED TO SIMULATE ECCS/UPPER HEAD INJECTION (UHI) PERFORMANCE DURING A LOSS-OF-COOLANT EXPERIMENT. IT OPERATES AT ABOUT 1/30 THE POWER LEVEL AND IS 1/5 THE PHYSICAL SIZE OF LOFT WITH TWO LOOPS, EACH CONTAINING AN ACTIVE STEAM GENERATOR AND COOLANT PUMP. THE REACTOR CORE IS SIMULATED BY 25 ELECTRICALLY HEATED FUEL RODS, EACH HAVING A 12-FOOT HEATED LENGTH AND ARRANGED IN A TYPICAL 15 X 15 PWR FUEL GEOMETRY.

THE OBJECTIVES OF THE TEST FACILITY ARE TO:

1. PROVIDE SEPARATE AND INTEGRAL EFFECTS EXPERIMENTAL DATA FOR DEVELOPING AND/OR ASSESSMENT OF LOCA COMPUTATIONAL METHODS,
2. INVESTIGATE SMALL BREAK LOCA'S AND PLANT TRANSIENTS,
3. PROVIDE DATA FOR INTERPRETING LOFT DATA AND ADDRESSING LOFT DESIGN COMPROMISES, AND
4. PROVIDE DATA TO INVESTIGATE UHI PHENOMENA AND TO EVALUATE ANALYTICAL CAPABILITIES.

TATUS:

FOLLOWING THE TMI-2 ACCIDENT THE SEMISCALE CONDUCTED NON-CONDENSIBLE GAS BUBBLE VENTING EXPERIMENTS IN SUPPORT OF THE TMI-2 ACCIDENT TEAM AND ALSO CONDUCTED TMI-2 TRANSIENT SIMULATION EXPERIMENTS EMPLOYING A B&W PRESSURIZER LINE CONFIGURATION. THESE LATTER TESTS DEMONSTRATED THAT CORE REGION UNCOVERY CAN OCCUR EVEN THOUGH PRESSURIZER LEVEL READINGS WOULD INDICATE A COVERED CORE.

A REVISED SEMISCALE PROGRAM PLAN HAS BEEN DEVELOPED FOR FY 1980 WHICH STRESSES SMALL BREAK LOCA'S AND PLANT TRANSIENT EFFECTS. THIS REDIRECTION IS IN KEEPING WITH ACRS RECOMMENDATIONS TO CONCENTRATE ON PLANT TRANSIENTS AND SMALL LOCA'S, AS WELL AS INITIATING A SERIES OF SMALL BREAK TESTS TO SUPPORT LOFT SMALL BREAK TESTING PLANNED FOR FY 1980. NRR SMALL BREAK MODEL EVALUATIONS WILL UTILIZE BOTH THE SEMISCALE AND LOFT SMALL BREAK TEST DATA.

THE PLANNED FY 1980 EFFORT SUMMARIZES AS FOLLOWS:

1. SMALL BREAK TESTS SB-4 AND SB-4A (COUNTER PART TESTS TO THE LOFT NUCLEAR SMALL BREAK TEST L3-1) WERE CONDUCTED IN EARLY NOVEMBER 1979. CURRENT PLANS CALL FOR CONCLUDING THE LOFT SUPPORT SMALL BREAK TESTS BY MID FY 1980.
2. REDIRECTED EFFORT HAS DEFERRED COMPLETION OF PREVIOUSLY PLANNED LARGE LOCA UHI EXPERIMENTS. ALSO, THE PREVIOUS LARGE BREAK LOCA EXPERIMENT (S-07-6) WILL BE RERUN AFTER THE MOD 2A CONVERSION TO EVALUATE THE EFFECTS OF AN IMPROVED DOWNCOMER AND VESSEL THERMAL INSULATION.

## NUCLEAR REGULATORY RESEARCH

DATA AS OF: APRIL 22, 1980

NO UPDATE PROVIDED

3. INTERIM FACILITY UPGRADES, MOD 2A CONVERSION (E.G., INSTALLATION OF A SECOND PWR SCALED PRIMARY LOOP PUMP, A SECOND FULL HEIGHT UTSG, ADDITIONAL THERMAL INSULATION TO MINIMIZE SYSTEM HEAT LEAKAGES), WILL BE INITIATED IN THE THIRD QUARTER OF FY 1980, AS WELL AS DESIGN WORK FOR A SEMISCALE SYSTEM UPGRADE TO SIMULATE A 2 X 4 PWR CONFIGURATION HAVING TWO INDEPENDENT SECONDARY LOOPS WITH HEAT DUMP CAPABILITY.
4. PLAN AND CONDUCT SEPARATE EFFECTS TESTS (IN THE THIRD AND FOURTH QUARTERS OF FY 1980) ADDRESSING: STEAM GENERATOR AND FEEDWATER SYSTEMS TRANSIENTS, NATURAL CIRCULATION EFFECTS WITH TWO-PHASE EFFECTS, EFFECTS OF NON-CONDENSIBLE GASES, ETC.
5. PUMPS-ON AND PUMPS-OFF EXPERIMENTS FOR SMALL BREAK LOCA TRANSIENTS ARE TO BE PERFORMED IN THE SEMISCALE FACILITY FOR BOTH COLD AND HOT LEG BREAKS IN THE SECOND QUARTER OF FY 1980.

### POTENTIAL PROBLEMS:

1. AVAILABILITY OF, AND TIMING OF, FY 1980 SUPPLEMENTAL FUNDING.
2. FINAL AGREEMENT ON FY 1980 EXPERIMENTS PLANNED FOR QUARTERS 3 AND 4.

# NUCLEAR REGULATORY RESEARCH DATA AS OF: APRIL 22, 1980

POWER BURST FACILITY

NO UPDATE PROVIDED

## PURPOSE:

THE POWER BURST FACILITY (PBF) USES A PRESSURIZED TEST LOOP IN A POOL-TYPE 30 MEGAWATT (STEADY STATE) REACTOR CAPABLE OF PULSED OPERATION. IT IS LOCATED AT THE IDAHO NATIONAL ENGINEERING LABORATORY AND IS USED TO OBTAIN DATA ON THE PERFORMANCE OF FUEL ROD CLUSTERS UNDER ABNORMAL POWER, COOLANT FLOW AND ENERGY DENSITY CONDITIONS. THIS INCLUDES THE PCM (POWER COOLING MISMATCH) TEST, LOCA (LOSS OF COOLANT ACCIDENT) TESTS, RIA (REACTIVITY INITIATED ACCIDENT) TESTS AND INLET FLOW BLOCKAGE TESTS. THE DATA OBTAINED WILL BE USED TO DEVELOP OR TEST ANALYTICAL CAPABILITY WHICH CAN BE USED TO PREDICT FUEL RESPONSE IN REACTORS DURING OFF-NORMAL OPERATION CONDITIONS.

## STATUS:

A DOUBLE-ENDED COLD LEG BREAK TEST (LOC-3) WITH PRESSURIZED RODS WAS PERFORMED IN JUNE. THIS WAS THE FIRST OF FOUR 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 (LOC-5) WAS PERFORMED IN SEPTEMBER TO STUDY RELATIVE CLAD BALLOONING AT A 1300K (1880F) PCT (LOW BETA PHASE). BECAUSE OF CHECK VALVE MALFUNCTIONS, ONLY ONE TEST ROD REACHED THE WANTED TEMPERATURE RANGE SO THE TEST WAS REPEATED IN DECEMBER. TWO VALVES AGAIN MALFUNCTIONED SO ONLY TWO RODS HEATED CORRECTLY. FURTHER LOC TESTS WILL BE DELAYED UNTIL ALL MALFUNCTIONING HARDWARE IS REDESIGNED AND THE TEST TRAIN IS REFITTED OR REPLACED.

FOUR SURFACE THERMOCOUPLE QUENCH TESTS WERE PERFORMED IN OCTOBER. THESE LOCA BLOWDOWN-HEATUP-REFLOOD TESTS COMPARED THE TIME-TEMPERATURE RESPONSES OF FUEL AND INNER CLADDING FOR FUEL RODS WITH AND WITHOUT EXTERNAL CLADDING THERMOCOUPLES. THE RODS WITHOUT EXTERNAL THERMOCOUPLES WENT INTO DEPARTURE FROM NUCLEATE BOILING SOONER, REACHED HIGHER INTERNAL CLAD TEMPERATURES DURING THE SIMULATED ACCIDENT AND REWET LATER THAN THE RODS FITTED WITH EXTERNAL THERMOCOUPLES.

TEST PR-1, A MULTIPURPOSE PCM, REWET, STORED ENERGY, RIA TEST, WAS COMPLETED FEBRUARY 22, 1980. PRELIMINARY ANALYSES OF THE DATA INDICATE A HYSTERESIS IN THE POWER AND COOLANT VALUES FOR OCCURRENCE OF BOILING TRANSITION AND RETURN TO NUCLEATE BOILING UNDER THE SAME PRESSURE AND LOOP CONDITIONS. NO SIGNIFICANT DISPERSAL OF FUEL FROM A WATER-LOGGED ROD OCCURRED DURING THE RIA TESTS TO 180 CAL/G UO<sub>2</sub> ENTHALPY INSERTION, THOUGH PRESSURE PULSES IN THE ROD WERE OBSERVED. THE ONLY ARGON FILLED ROD DID NOT BURST AND REACHED CLADDING TEMPERATURES ABOUT 300K LESS THAN THE HELIUM FILLED RODS WHICH DID BURST. THE DATA ARE BEING ANALYZED FURTHER.

THE POWER CALIBRATION TESTS FOR RIA 1-4 WERE COMPLETED BY APRIL 4, 1980 AND THE SPECIMEN TRAIN HAS BEEN REMOVED FROM THE IPT TO ALLOW INSERTION OF NEW FLUX WIRES AND A REPLACEMENT SPECIMEN FUEL ROD. THE RIA 1-4 TEST IS SCHEDULED TO BE CONDUCTED ON APRIL 15, 1980.

MODIFICATIONS OF THE TEST LOOP PUMP FOR VARIABLE SPEED TO PROVIDE A BROADER RANGE OF FLOW CONDITIONS WERE COMPLETED IN FY 1979. THESE MODIFICATIONS WILL IMPROVE LOOP PERFORMANCE FOR THE EXPERIMENTAL PROGRAM. A MODIFICATION TO REDUCE THE CONTROL ROOM NOISE LEVEL WAS COMPLETED IN DECEMBER.

## PROBLEMS:

FURTHER LOC TESTS WILL BE DELAYED UNTIL ALL MALFUNCTIONING HARDWARE IS REDESIGNED AND THE TEST TRAIN IS REFITTED OR REPLACED.



# NUCLEAR REGULATORY RESEARCH

DATA AS OF: APRIL 22, 1980

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

NO UPDATE PROVIDED

## PURPOSE:

THE BDHT PROGRAM AT ORNL IS DESIGNED TO INVESTIGATE TRANSIENT HEAT TRANSFER PHENOMENA IN A SIMULATED FUEL BUNDLE ASSEMBLY. SPECIFICALLY, TIME-TO-CRITICAL HEAT FLUX (CHF), TRANSITION HEAT TRANSFER UNDER UPFLOW AND DOWNFLOW CONDITIONS AND RETURN TO NUCLEATE BOILING WILL BE INVESTIGATED UNDER BLOWDOWN CONDITIONS. TRANSFER EXPERIMENTS WILL BE CONDUCTED TO INVESTIGATE HEAT TRANSFER UNDER CONDITIONS THAT COULD BE ENCOUNTERED UNDER SMALL LOCA CONDITIONS.

## STATUS:

THE TEST LOOP SHAKEDOWN WAS CONCLUDED IN NOVEMBER 1979. THE INITIAL ROUND OF BUNDLE UNCOVERY/RECOVERY TESTS AT PRESSURES OF 400-1000 PSIA WERE COMPLETED IN JANUARY 1980. A PRELIMINARY DATA SET WAS ISSUED IN LATE FEBRUARY 1980 FOR LOW POWER, HIGH PRESSURE AND BUNDLE UNCOVERY/RECOVERY HEAT TRANSFER DATA.

FACILITY PREPARATION IS UNDERWAY FOR THE INITIAL "FILM BOILING" BLOWDOWN TRANSIENTS. BUNDLE PRESSURE SEAL PROBLEMS HAVE OCCURRED AND THE FACILITY IS CURRENTLY OUT OF OPERATION FOR PRESSURE SEAL REPLACEMENT.

## PROBLEMS:

BUNDLE POWER CONTROLLER/PROTECTIVE CIRCUIT TRIP AND SEAL PROBLEMS HAVE BEEN ENCOUNTERED. THE ESTIMATED SCHEDULE FOR RESOLUTION OF THESE PROBLEMS IS IN THE SECOND QUARTER OF FY 1980. CORRECTIVE SOLUTIONS ARE BEING INVESTIGATED AND A CONTINGENCY PLAN HAS BEEN PREPARED.

# NUCLEAR REGULATORY RESEARCH DATA AS OF: APRIL 22, 1980

HEAVY SECTION STEEL TECHNOLOGY PROGRAM (HSST)

NO UPDATE PROVIDED

## PURPOSE:

THE PURPOSE OF THE HSST PROGRAM IS TO DEVELOP AND EVALUATE METHODS OF FRACTURE ANALYSIS OF HEAVY SECTION STEEL LIGHT WATER REACTOR PRESSURE VESSELS FOR INCLUSION IN CODES AND STANDARDS. THERMAL SHOCK AND PRESSURE TESTS OF MODEL REACTOR PRESSURE VESSELS ARE CARRIED OUT AT THE OAK RIDGE NATIONAL LABORATORY. THE STATE-OF-THE-ART IS BEING ADVANCED BOTH IN THE EFFECTS OF IRRADIATION AND IN THE METHODS USED TO ASSESS REACTOR SAFETY.

## STATUS:

TESTS ON DELIBERATELY FLAWED VESSELS HAVE BEEN PERFORMED TO VERIFY THE LINEAR ELASTIC FRACTURE MECHANICS METHODOLOGY, AS WELL AS NEWER METHODS FOR ELASTIC-PLASTIC FRACTURE MECHANICS WHEREIN SLOW CRACK GROWTH OCCURS PRIOR TO FAST FRACTURE. THE RESULTS HAVE SATISFACTORILY VALIDATED LINEAR ELASTIC FRACTURE MECHANICS; THE EXCELLENT AGREEMENT BETWEEN FAILURE AND RESULTS BASED ON ELASTIC-PLASTIC ANALYSIS HAS ALSO PROVIDED GOOD CONFIDENCE FOR LICENSING APPLICATION OF THIS METHODOLOGY. IN GENERAL, THE TESTS HAVE SHOWN THAT PRESSURES TWO TO THREE TIMES DESIGN PRESSURE, IN ACCORDANCE WITH THE REQUIREMENTS IN THE ASME CODE, ARE REQUIRED TO CAUSE FAILURE IN A FLAWED VESSEL. TWO RECENT TESTS ON WELD REPAIRED VESSELS HAVE SHOWN THAT THE REPAIR WELD PROCEDURE AS SPELLED OUT IN THE ASME CODE, PRODUCES VERY SOUND WELDS BUT ALSO INDUCE UNACCEPTABLE RESIDUAL STRESSES IN THE MATERIAL SURROUNDING THE WELD. THESE STRESSES DO NOT COMPROMISE THE WELD BUT CAN LEAD TO ACCELERATED FATIGUE CRACKING OF THE VESSEL.

A SERIES OF FOUR TESTS ON THICK-WALLED STEEL CYLINDERS UNDER THERMAL SHOCK CONDITIONS HAVE WELL VALIDATED LINEAR ELASTIC FRACTURE MECHANICS AS A METHODOLOGY FOR ASSESSING VESSEL RESPONSE TO LOCA/ECCS THERMAL SHOCK ACCIDENTS. THE PHENOMENON OF WARM PRESTRESSING HAS BEEN PROPOSED AS AN ADDITIONAL DETERRENT TO CRACK INITIATION AND EXTENSION UNDER THERMAL SHOCK; THIS IS NOW BEING INVESTIGATED USING LARGER, THICK-WALLED STEEL CYLINDERS. IN THIS SERIES OF TESTS, CYLINDERS OF THE SAME SCALE AS INTERMEDIATE TEST VESSELS ARE BEING SUBJECTED TO LIQUID NITROGEN SHOCKING TO PROVE THE CONCEPT OF WARM PRESTRESSING, AND ALSO TO ESTABLISH THE LIMIT OF CRACK EXTENSION FOR VERY DEEP CRACKS, I.E., TO PROVE THAT A DEEP CRACK CANNOT PROPAGATE THROUGH A VESSEL WALL. THE FIRST TEST IN THIS LATTER SERIES WAS RUN ON AUGUST 1, 1979. ANALYSIS OF THE RESULTS OF THESE TESTS SHOWED THAT THEY WERE INCONCLUSIVE AS REGARDS WARM PRESTRESSING. THE POST-TEST ANALYSIS ALSO GAVE CLEAR EVIDENCE THAT THE FRACTURE BEHAVIOR OF THE MATERIAL IN THICK WALL VESSELS, WHEN SUBJECTED TO UPPER TRANSITION CURVE TEMPERATURES, WILL BE GOVERNED BY THE LOWER BOUND FRACTURE TOUGHNESS VALUES FOR THAT MATERIAL AS DETERMINED FROM SMALL SPECIMEN TESTING. A COMPREHENSIVE PROGRAM TO ESTABLISH LOWER BOUND VALUES FROM SUCH TESTING HAS BEEN INITIATED. THE SECOND EXPERIMENT IN THAT SERIES IS BEING PREPARED.

AN IRRADIATION PROGRAM ON HEAVY SECTION LOW DUCTILE SHELF WELD METAL TEST SPECIMENS IS UNDERWAY TO QUANTIFY THE POTENTIAL TOUGHNESS LOSS CAUSED BY NEUTRON IRRADIATION DAMAGE AND ASSESS COMPLIANCE WITH APPENDICES G AND H OF 10 CFR 50. THE FIRST THREE IRRADIATIONS ARE COMPLETE AND TESTING HAS BEGUN. A QUALIFICATION PROGRAM, FOR THE TESTING METHOD TO BE USED TO EVALUATE THE FRACTURE TOUGHNESS IN FRACTURE MECHANICS TERMS FROM SMALL SPECIMENS, IS IN ITS FINAL STAGE; I.E., A MULTI-LABORATORY EVALUATION OF THE TESTING PROCEDURE. TESTING OF THE SMALLER FRACTURE TOUGHNESS SPECIMENS HAS STARTED AND THE FIRST SETS OF DATA FROM CHARPY AND CCMFACT TENSILE SPECIMENS HAVE BEEN DEVELOPED. COMPLETION OF THE FRACTURE TESTING OF THE REMAINDER OF THE IRRADIATED SPECIMENS AWAITS COMPLETION OF THE TEST PROCEDURE.

## PROBLEMS:

NONE

**SECTION VI -  
FOREIGN REACTORS**

## SUMMARY OF FOREIGN POWER REACTORS

NUMBERS IN PARENTHESES ARE NET MWE

DATA AS OF: APRIL 30, 1980

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

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

\*REACTOR CONSTRUCTION COMPLETED, NOT YET IN COMMERCIAL OPERATION

## EXPORT LICENSE APPLICATIONS

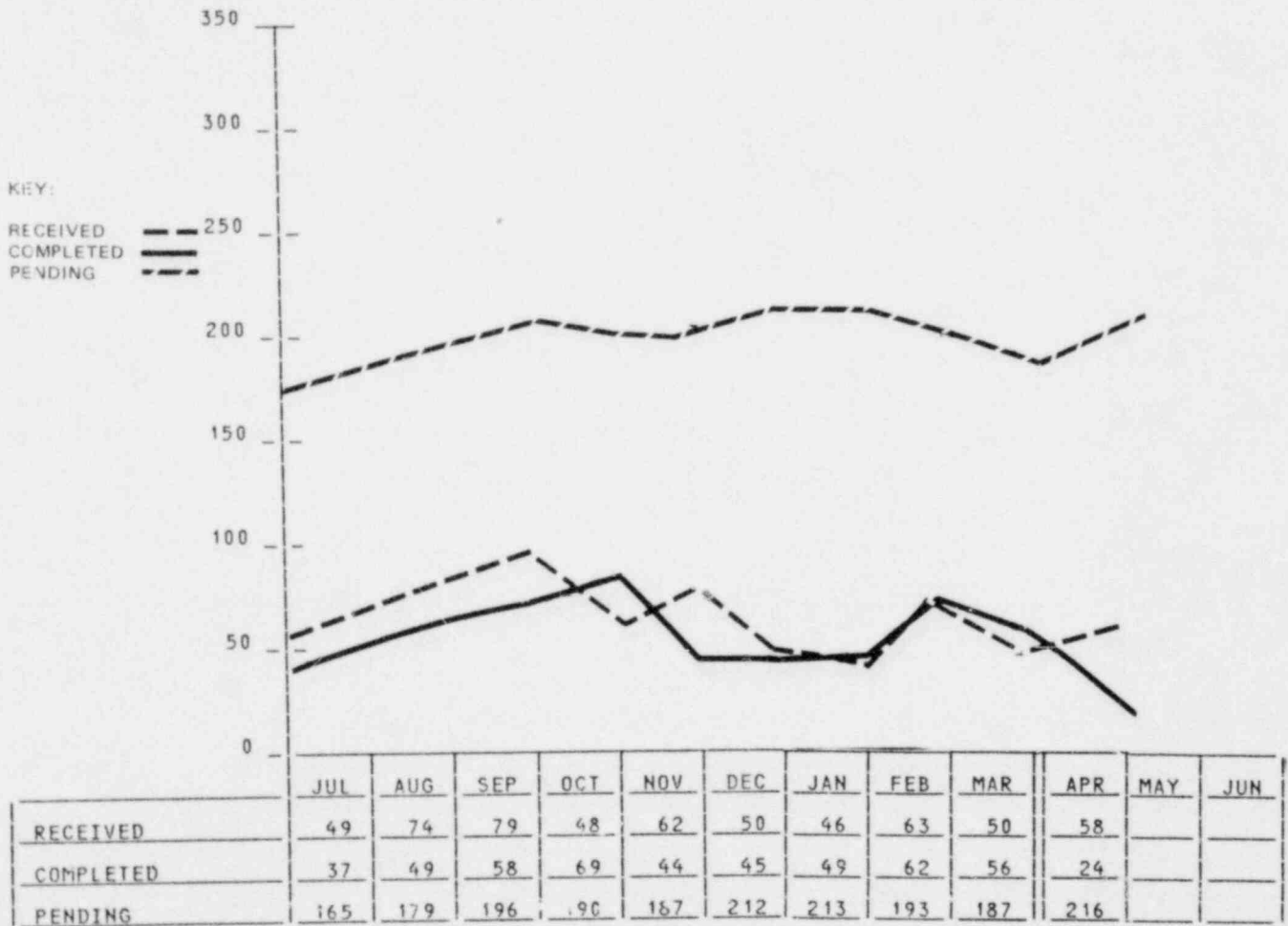
**DESCRIPTION:**

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

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

DATA AS OF: APRIL 30, 1980

Export Licenses



**EXPORT LICENSE APPLICATIONS  
(CONTINUED)**

DATA AS OF: APRIL 30, 1980

|   | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR  | MAY | JUN |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| AWAITING APPLICANT REPLY  | 3   | 0   | 1   | 1   | 1   | 0   | 1   | 0   | 0   | 1    |     |     |
| IN PREPARATION FOR TRANSMITTAL TO STATE DEPARTMENT                | 2   | 10  | 4   | 0   | 0   | 4   | 1   | 1   | 3   | 10   |     |     |
| UNDER EXECUTIVE BRANCH REVIEW                                     | 124 | 123 | 144 | 145 | 147 | 158 | 140 | 138 | 137 | 0    |     |     |
| ROUTINE RELOAD  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    |     |     |
| IN PREPARATION FOR COMMISSION REVIEW                              | 7   | 5   | 5   | 5   | 5   | 6   | 16  | 15  | 4   | 2    |     |     |
| SENT TO DOE   | 11  | 0   | 20  | 21  | 22  | 16  | 14  | 18  | 17  | * 15 |     |     |
| UNDER COMMISSION REVIEW   | 5   | 2   | 1   | 1   | 1   | 1   | 4   | 4   | 4   | 8    |     |     |
| IN PROCESS FOR ISSUANCE   | 0   | 8   | 0   | 2   | 0   | 5   | 8   | 6   | 4   | 7    |     |     |
| UNDER FURTHER REVIEW-SPECIAL CASE:                                | 12  | 12  | 13  | 12  | 10  | 12  | 13  | 10  | 17  | 19   |     |     |
| UNDER GENERIC APPROVAL  | 0   | 1   | 6   | 2   | 0   | 6   | 14  | 1   | 0   | 6    |     |     |
| RETURNED FROM STATE NO ACTION                                     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1    |     |     |
| AMENDMENT ONLY IN PROCESS ISSUANCE                                | 0   | 7   | 1   | 0   | 0   | 3   | 1   | 0   | 0   | 0    |     |     |
| AWAITING GENERIC ASSURANCES ON TRANSFER OF COMPONENTS & MATERIALS | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 0   | 1   | 1    |     |     |

\* 146 APPLICATIONS ARE NOT INCLUDED (GOES TO STATE)

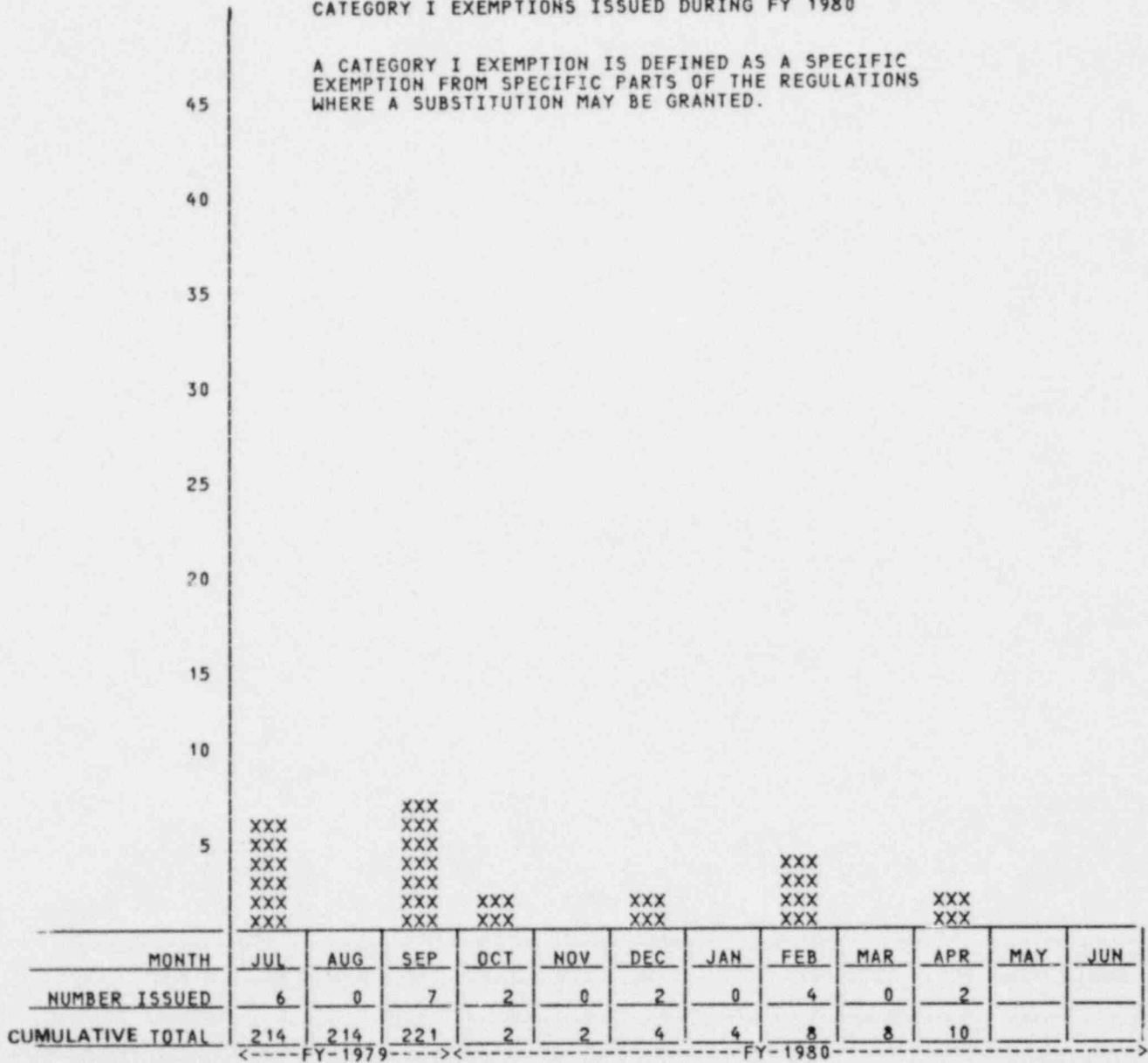
**SECTION VII -  
EXEMPTIONS**

# EXEMPTIONS ISSUED

DATA AS OF: APRIL 30, 1980

## CATEGORY I EXEMPTIONS ISSUED DURING FY 1980

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



KEY

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

FOOTNOTE: NO CATEGORY I EXEMPTIONS WERE GRANTED IN THE OFFICES OF INTERNATIONAL PROGRAMS AND NUCLEAR REACTOR REGULATION.

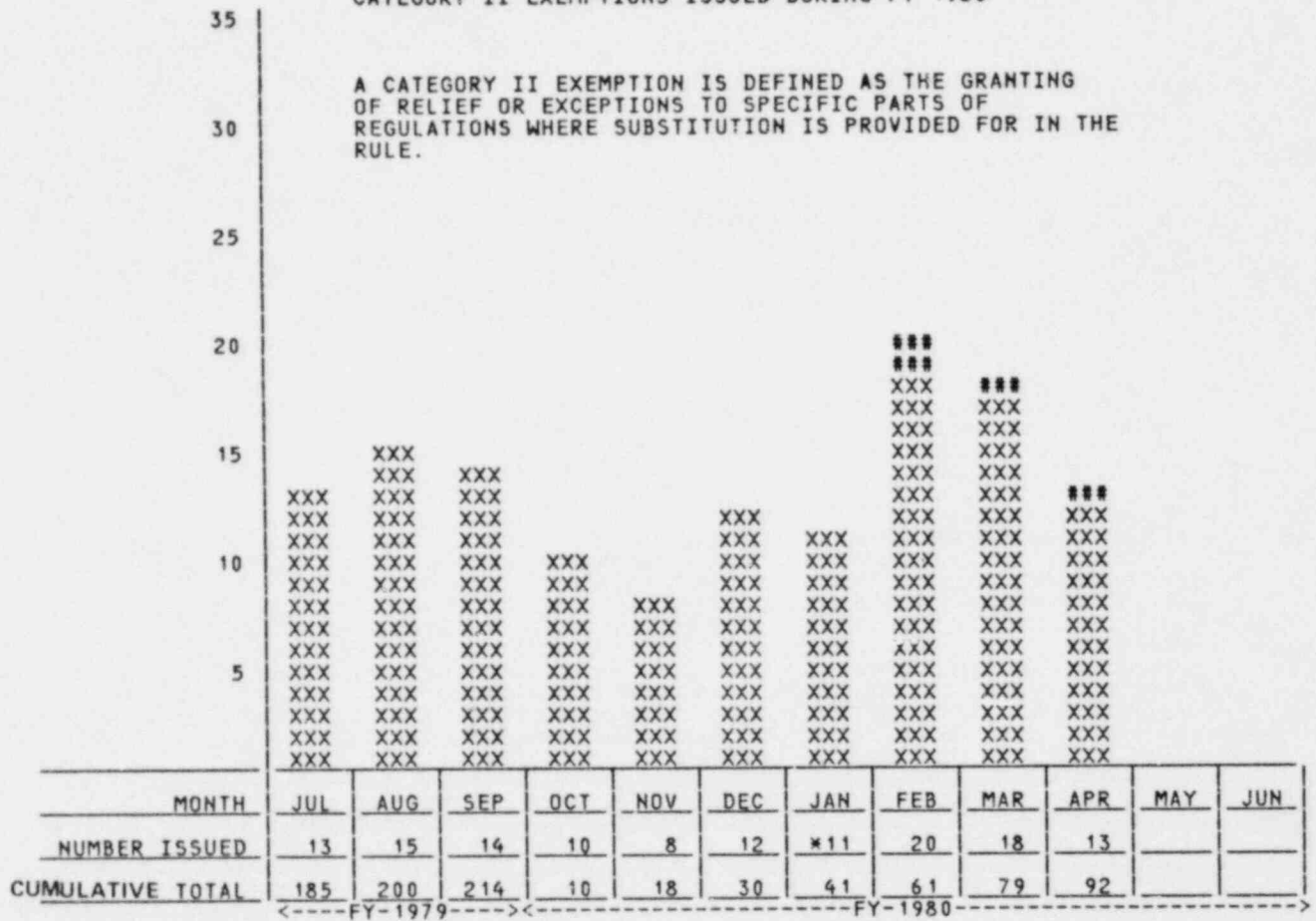


# EXEMPTIONS ISSUED

DATA AS OF: APRIL 30, 1980

## CATEGORY II EXEMPTIONS ISSUED DURING FY 1980

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



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

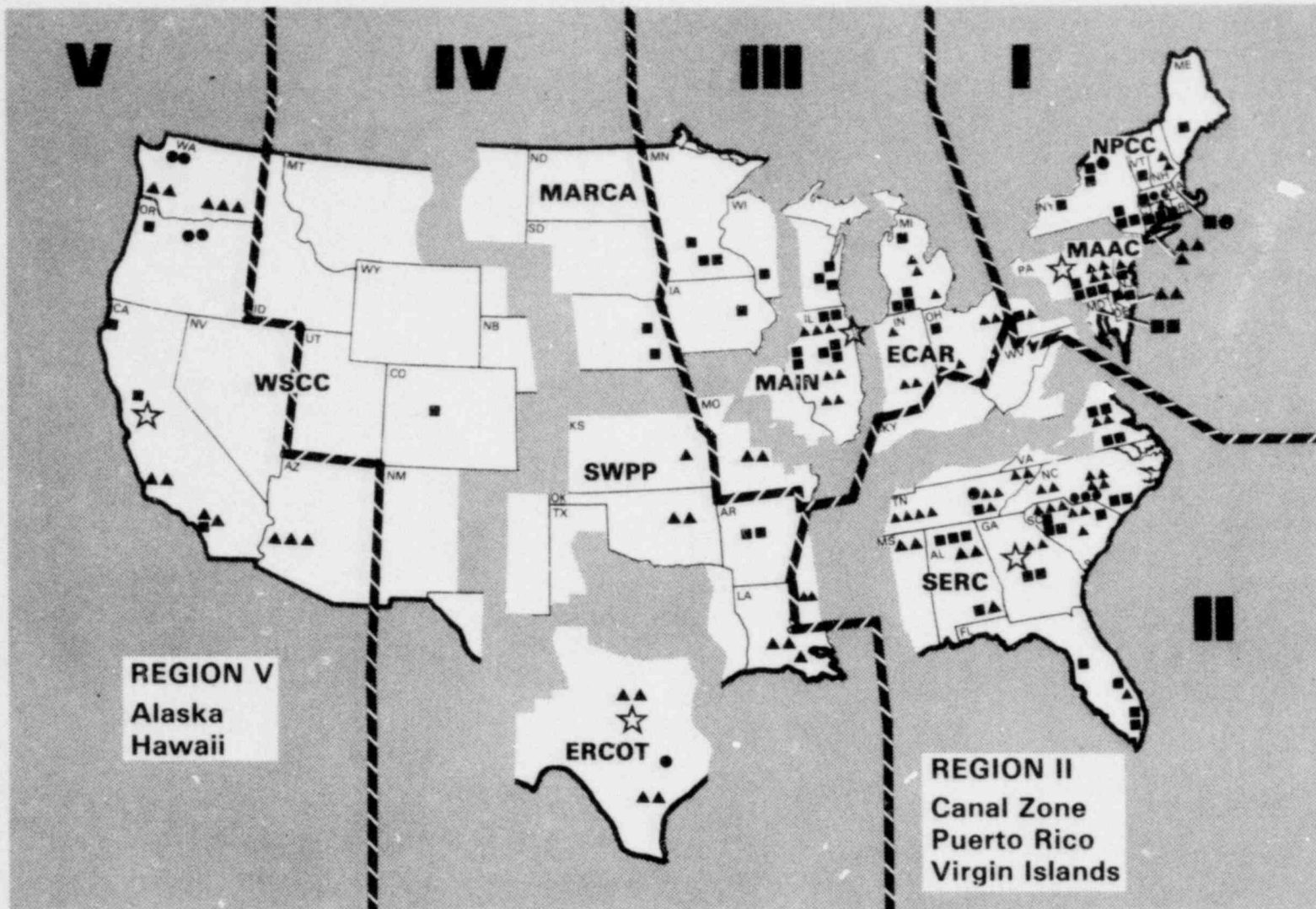
KEY  
 A=### PRODUCTION & UTILIZATION FACILITIES  
 B=XXX MATERIALS  
 C=### TRANSPORTATION  
 D=... IMPORT/EXPORT

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

**SECTION VIII -**

**NRC OVERVIEW**

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



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

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

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

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

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

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

Region III, 312-858-2660  
799 Roosevelt Road  
C'en Ellyn, Illinois 60137

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

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

### U.S. Electric Reliability Councils

**ECAR** East Central Area Reliability  
Coordination Agreement

**MAIN** Mid-America Interpool Network

**MAAC** Mid-Atlantic Area Council

**MARCA** Mid-Continent Area Reliability  
Coordination Agreement

**NPCC** Northeast Power  
Coordinating Council

**SERC** Southeastern Electric  
Reliability Council

**SWPP** Southwest Power Pool

**ERCOT** Electric Reliability Council of Texas

**WSCC** Western Systems  
Coordinating Council

#### ECAR (East Central Area Reliability Coord. Group)

(PCP) BAILLY 1 INDIANA  
(LIC) BEAVER VALLEY 1 PENNSYLVANIA  
(PCP) BEAVER VALLEY 2 PENNSYLVANIA  
(LIC) BIG ROCK POINT 1 MICHIGAN  
(LIC) COOK 1 MICHIGAN  
(LIC) COOK 2 MICHIGAN  
(LIC) DAVIS-BESSE 1 OHIO  
(OL) ENRICO FERMI 2 MICHIGAN  
(PCP) MARBLE HILL 1 INDIANA  
(PCP) MARBLE HILL 2 INDIANA  
(OL) MIDLAND 1 MICHIGAN  
(OL) MIDLAND 2 MICHIGAN  
(FTL) PALISADES MICHIGAN  
(PCP) PERRY 1 OHIO  
(PCP) PERRY 2 OHIO  
(OL) ZIMMER 1 OHIO

(LIC) POINT BEACH 1 WISCONSIN  
(LIC) POINT BEACH 2 WISCONSIN  
(LIC) QUAD CITIES 1 ILLINOIS  
(LIC) QUAD CITIES 2 ILLINOIS  
(LIC) ZION 1 ILLINOIS  
(LIC) ZION 2 ILLINOIS

#### MARCA (Mid-Continental Area Reliability Coord. Agreement)

(LIC) COOPER STATION NEBRASKA  
(LIC) DUANE ARNOLD IOWA  
(LIC) FORT CALHOUN 1 NEBRASKA  
(FTL) LA CROSSE WISCONSIN  
(FTL) MONTICELLO MINNESOTA  
(LIC) PRAIRIE ISLAND 1 MINNESOTA  
(LIC) PRAIRIE ISLAND 2 MINNESOTA

#### ERCOT (Electric Reliability Council of Texas)

(CP) ALLENS CREEK 1 TEXAS  
(OL) COMANCHE PEAK 1 TEXAS  
(OL) COMANCHE PEAK 2 TEXAS  
(OL) SOUTH TEXAS 1 TEXAS  
(OL) SOUTH TEXAS 2 TEXAS

#### NPCC (Northeast Power Coord. Council)

(LIC) FITZPATRICK NEW YORK  
(FTL) GINNA NEW YORK  
(LIC) HADDAM NECK CONNECTICUT  
(LIC) INDIAN POINT 1 NEW YORK  
(LIC) INDIAN POINT 2 NEW YORK  
(LIC) INDIAN POINT 3 NEW YORK  
(PCP) JAMESPORT 1 NEW YORK  
(PCP) JAMESPORT 2 NEW YORK  
(LIC) MAINE YANKEE MAINE  
(FTL) MILLSTONE 1 CONNECTICUT  
(LIC) MILLSTONE 2 CONNECTICUT  
(PCP) MILLSTONE 3 CONNECTICUT  
(CP) MONTAGUE 1 MASSACHUSETTS  
(CP) MONTAGUE 2 MASSACHUSETTS  
(CP) NEW ENGLAND 1 RHODE ISLAND  
(CP) NEW ENGLAND 2 RHODE ISLAND  
(CP) NEW HAVEN 1 NEW YORK  
(CP) NEW HAVEN 2 NEW YORK  
(LIC) NINE MILE POINT 1 NEW YORK  
(PCP) NINE MILE POINT 2 NEW YORK  
(LIC) PILGRIM 1 MASSACHUSETTS  
(CP) PILGRIM 2 MASSACHUSETTS  
(PCP) SEABROOK 1 NEW HAMPSHIRE  
(PCP) SEABROOK 2 NEW HAMPSHIRE  
(OL) SHOREHAM NEW YORK  
(PCP) STERLING 1 NEW YORK  
(LIC) VERMONT YANKEE 1 VERMONT  
(LIC) YANKEE-ROWE 1 MASSACHUSETTS

#### MAAC (Mid-Atlantic Area Council)

(LIC) CALVERT CLIFFS 1 MARYLAND  
(LIC) CALVERT CLIFFS 2 MARYLAND  
(PCP) FORKED RIVER NEW JERSEY  
(PCP) HOPE CREEK 1 NEW JERSEY  
(PCP) HOPE CREEK 2 NEW JERSEY  
(PCP) LIMERICK 1 PENNSYLVANIA  
(PCP) LIMEPICK 2 PENNSYLVANIA  
(FTL) OYSTER CREEK 1 NEW JERSEY  
(LIC) PEACH BOTTOM 2 PENNSYLVANIA  
(LIC) PEACH BOTTOM 3 PENNSYLVANIA  
(LIC) SALEM 1 NEW JERSEY  
(OL) SALEM 2 NEW JERSEY  
(OL) SUSQUEHANNA 1 PENNSYLVANIA  
(OL) SUSQUEHANNA 2 PENNSYLVANIA  
(LIC) THREE MILE ISLAND 1 PENNSYLVANIA  
(LIC) THREE MILE ISLAND 2 PENNSYLVANIA

#### MAIN (Mid-America Interpool Network)

(OL) BRAIDWOOD 1 ILLINOIS  
(OL) BRAIDWOOD 2 ILLINOIS  
(OL) BYRON 1 ILLINOIS  
(OL) BYRON 2 ILLINOIS  
(PCP) CALLAWAY 1 MISSOURI  
(PCP) CALLAWAY 2 MISSOURI  
(PCP) CLINTON 1 ILLINOIS  
(PCP) CLINTON 2 ILLINOIS  
(LIC) DRESDEN 1 ILLINOIS  
(FTL) DRESDEN 2 ILLINOIS  
(LIC) DRESDEN 3 ILLINOIS  
(LIC) KEWAUNEE WISCONSIN  
(OL) LASALLE 1 ILLINOIS  
(OL) LASALLE 2 ILLINOIS

### Regional Status of Nuclear Power Reactors

Data as of: February 29, 1980

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

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

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

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

### SERC (Southeastern Reliability Council)

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

|                      |             |
|----------------------|-------------|
| (OL ) WATTS BAR 1    | TENNESSEE   |
| (OL ) WATTS BAR 2    | TENNESSEE   |
| (PCP) YELLOW CREEK 1 | MISSISSIPPI |
| (PCP) YELLOW CREEK 2 | MISSISSIPPI |

### SWPP (Southwest Power Pool)

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

### WSCC (Western Systems Coord. Council)

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

# REACTORS BY STATE

| STATE              | MWE    | STAGE | STATE                   | MWE    | STAGE | STATE                      | MWE    | STAGE | STATE                  | MWE    | STAGE |
|--------------------|--------|-------|-------------------------|--------|-------|----------------------------|--------|-------|------------------------|--------|-------|
| <b>ALABAMA</b>     |        |       | <b>INDIANA</b>          |        |       | <b>NEW JERSEY</b>          |        |       | <b>SOUTH CAROLINA</b>  |        |       |
| BROWNS FERRY 1     | (1065) | LIC   | BAILLY STATION          | (460)  | UC    | OYSTER CREEK               | (650)  | LIC   | OCONEE 1               | (887)  | LIC   |
| BROWNS FERRY 2     | (1065) | LIC   | MARBLE HILL 1           | (1130) | UC    | SALEM 1                    | (1090) | LIC   | OCONEE 2               | (887)  | LIC   |
| BROWNS FERRY 3     | (1065) | LIC   | MARBLE HILL 2           | (1130) | UC    | SALEM 2                    | (1115) | LIC   | OCONEE 3               | (887)  | LIC   |
| FARLEY 1           | (829)  | LIC   | <b>IOWA</b>             |        |       | FORKED RIVER               | (1070) | UC    | ROBINSON 2             | (700)  | LIC   |
| FARLEY 2           | (829)  | UC/OL | <b>DUANE ARNOLD</b>     |        |       | HOPE CREEK 1               | (1067) | UC    | CATAMBA 1              | (1145) | UC    |
| BELLEFONTTE 1      | (1255) | UC/OL | (538)                   |        |       | HOPE CREEK 2               | (1067) | UC    | CATAMBA 2              | (1145) | UC    |
| BELLEFONTTE 2      | (1255) | UC/OL |                         |        |       | <b>NEW YORK</b>            |        |       | CHEROKEE 1             | (1280) | UC    |
| <b>ARKANSAS</b>    |        |       | <b>KANSAS</b>           |        |       | FITZPATRICK                |        |       | CHEROKEE 2             | (1280) | UC    |
| ARKANSAS 1         | (850)  | LIC   | <b>WOLF CREEK</b>       |        |       | (821)                      |        |       | CHEROKEE 3             | (1280) | UC    |
| ARKANSAS 2         | (912)  | LIC   | (1150)                  |        |       | (490)                      |        |       | SUMMER 1               | (900)  | UC/OL |
| <b>ARIZONA</b>     |        |       | <b>LOUISIANA</b>        |        |       | <b>INDIAN POINT 1</b>      |        |       | <b>TENNESSEE</b>       |        |       |
| PALO VERDE 1       | (1270) | UC    | <b>RIVERBEND 1</b>      |        |       | (265)                      |        |       | HARTSVILLE 1           |        |       |
| PALO VERDE 2       | (1270) | UC    | <b>RIVERBEND 2</b>      |        |       | (873)                      |        |       | HARTSVILLE 2           |        |       |
| PALO VERDE 3       | (1270) | UC    | <b>WATERFORD 3</b>      |        |       | (873)                      |        |       | HARTSVILLE 3           |        |       |
| <b>CALIFORNIA</b>  |        |       | <b>MAINE</b>            |        |       | INDIAN POINT 2             |        |       | HARTSVILLE 4           |        |       |
| HUMBOLDT BAY       | (63)   | LIC   | <b>MAINE YANKEE</b>     |        |       | NINE MILE POINT 1          |        |       | HARTSVILLE 5           |        |       |
| RANCHO SECO        | (917)  | LIC   | (790)                   |        |       | NINE MILE POINT 2          |        |       | SEQUOYAH 1             |        |       |
| SAN ONOFRE 1       | (430)  | LIC   |                         |        |       | (1180)                     |        |       | SEQUOYAH 2             |        |       |
| DIABLO CANYON 1    | (1084) | UC/OL | <b>MARYLAND</b>         |        |       | SHOREHAM                   |        |       | WATTS BAR 1            |        |       |
| DIABLO CANYON 2    | (1104) | UC/OL | <b>CALVERT CLIFFS 1</b> |        |       | (854)                      |        |       | WATTS BAR 2            |        |       |
| DIABLO CANYON 3    | (1140) | UC/OL | <b>CALVERT CLIFFS 2</b> |        |       | STERLING 1                 |        |       | PHIPPS BEND 1          |        |       |
| SAN ONOFRE 2       | (1140) | UC/OL | (845)                   |        |       | STERLING 2                 |        |       | PHIPPS BEND 2          |        |       |
| SAN ONOFRE 3       | (1140) | UC/OL | (845)                   |        |       | JAMESPORT 1                |        |       | CLINCH RIVER           |        |       |
| <b>COLORADO</b>    |        |       | <b>MASSACHUSETTS</b>    |        |       | NEW HAVEN 1                |        |       |                        |        |       |
| FT. ST. VRAIN      | (530)  | LIC   | <b>PILGRIM 1</b>        |        |       | (1250)                     |        |       |                        |        |       |
| <b>CONNECTICUT</b> |        |       | <b>PILGRIM 2</b>        |        |       | NEW HAVEN 2                |        |       |                        |        |       |
| CONNECTICUT YANKEE | (575)  | LIC   | (455)                   |        |       | (1250)                     |        |       |                        |        |       |
| MILLSTONE 1        | (660)  | LIC   | (1180)                  |        |       |                            |        |       |                        |        |       |
| MILLSTONE 2        | (830)  | LIC   | YANKEE-ROWE             |        |       |                            |        |       |                        |        |       |
| MILLSTONE 3        | (1159) | UC    | (175)                   |        |       |                            |        |       |                        |        |       |
| <b>FLORIDA</b>     |        |       | <b>MONTAGUE 1</b>       |        |       |                            |        |       |                        |        |       |
| ST. LUCIE 1        | (802)  | LIC   | <b>MONTAGUE 2</b>       |        |       |                            |        |       |                        |        |       |
| ST. LUCIE 2        | (842)  | UC    | (1150)                  |        |       |                            |        |       |                        |        |       |
| TURKEY POINT 3     | (693)  | LIC   | <b>MICHIGAN</b>         |        |       |                            |        |       |                        |        |       |
| TURKEY POINT 4     | (693)  | LIC   | <b>PALISADES</b>        |        |       |                            |        |       |                        |        |       |
| CRYSTAL RIVER 3    | (825)  | LIC   | (805)                   |        |       |                            |        |       |                        |        |       |
| <b>GEORGIA</b>     |        |       | <b>BIG ROCK POINT</b>   |        |       |                            |        |       |                        |        |       |
| HATCH 1            | (717)  | LIC   | (72)                    |        |       |                            |        |       |                        |        |       |
| HATCH 2            | (792)  | LIC   | COOK 1                  |        |       |                            |        |       |                        |        |       |
| VOGTLE 1           | (1100) | UC    | (1054)                  |        |       |                            |        |       |                        |        |       |
| VOGTLE 2           | (1100) | UC    | COOK 2                  |        |       |                            |        |       |                        |        |       |
| <b>ILLINOIS</b>    |        |       | <b>FERMI 2</b>          |        |       |                            |        |       |                        |        |       |
| DRESDEN 1          | (200)  | LIC   | (1123)                  |        |       |                            |        |       |                        |        |       |
| DRESDEN 2          | (794)  | LIC   | (492)                   |        |       |                            |        |       |                        |        |       |
| DRESDEN 3          | (794)  | LIC   | (818)                   |        |       |                            |        |       |                        |        |       |
| QUAD CITIES 1      | (789)  | LIC   | <b>MINNESOTA</b>        |        |       |                            |        |       |                        |        |       |
| QUAD CITIES 2      | (789)  | LIC   | <b>MONTICELLO</b>       |        |       |                            |        |       |                        |        |       |
| ZION 1             | (1040) | LIC   | (545)                   |        |       |                            |        |       |                        |        |       |
| ZION 2             | (1040) | LIC   | PRAIRIE ISLAND 1        |        |       |                            |        |       |                        |        |       |
| BRAIDWOOD 1        | (1120) | UC/OL | PRAIRIE ISLAND 2        |        |       |                            |        |       |                        |        |       |
| BRAIDWOOD 2        | (1120) | UC/OL |                         |        |       |                            |        |       |                        |        |       |
| BRYON 1            | (1120) | UC/OL | <b>MISSISSIPPI</b>      |        |       |                            |        |       |                        |        |       |
| BRYON 2            | (1120) | UC/OL | <b>GRAND GULF 1</b>     |        |       |                            |        |       |                        |        |       |
| CLINTON 1          | (950)  | UC    | <b>GRAND GULF 2</b>     |        |       |                            |        |       |                        |        |       |
| CLINTON 2          | (950)  | UC    | (1250)                  |        |       |                            |        |       |                        |        |       |
| LASALLE 1          | (1078) | UC/OL | <b>YELLOW CREEK 1</b>   |        |       |                            |        |       |                        |        |       |
| LASALLE 2          | (1078) | UC/OL | (1250)                  |        |       |                            |        |       |                        |        |       |
|                    |        |       | <b>YELLOW CREEK 2</b>   |        |       |                            |        |       |                        |        |       |
|                    |        |       | (1285)                  |        |       |                            |        |       |                        |        |       |
|                    |        |       | (1285)                  |        |       |                            |        |       |                        |        |       |
| <b>MISSOURI</b>    |        |       | <b>MISSOURI</b>         |        |       | <b>OREGON</b>              |        |       | <b>WASHINGTON</b>      |        |       |
|                    |        |       | <b>CALLAWAY 1</b>       |        |       | <b>TROJAN</b>              |        |       | <b>WASH. NUCLEAR 1</b> |        |       |
|                    |        |       | <b>CALLAWAY 2</b>       |        |       | <b>PEBBLE SPRINGS 1</b>    |        |       | <b>WASH. NUCLEAR 2</b> |        |       |
|                    |        |       |                         |        |       | <b>PEBBLE SPRINGS 2</b>    |        |       | <b>WASH. NUCLEAR 3</b> |        |       |
|                    |        |       | <b>NEBRASKA</b>         |        |       |                            |        |       | <b>WASH. NUCLEAR 4</b> |        |       |
|                    |        |       | <b>FT. CALHOUN 1</b>    |        |       |                            |        |       | <b>WASH. NUCLEAR 5</b> |        |       |
|                    |        |       | <b>COOPER STATION</b>   |        |       |                            |        |       | <b>SKAGIT 1</b>        |        |       |
|                    |        |       |                         |        |       |                            |        |       | <b>SKAGIT 2</b>        |        |       |
|                    |        |       | <b>NEW HAMPSHIRE</b>    |        |       | <b>PENNSYLVANIA</b>        |        |       | <b>WISCONSIN</b>       |        |       |
|                    |        |       | <b>SEABROOK 1</b>       |        |       | <b>BEAVER VALLEY 1</b>     |        |       | <b>KEAUUNEE</b>        |        |       |
|                    |        |       | <b>SEABROOK 2</b>       |        |       | <b>BEAVER VALLEY 2</b>     |        |       | <b>POINT BEACH 1</b>   |        |       |
|                    |        |       |                         |        |       | <b>PEACH BOTTOM 2</b>      |        |       | <b>POINT BEACH 2</b>   |        |       |
|                    |        |       |                         |        |       | <b>PEACH BOTTOM 3</b>      |        |       | <b>LACROSSE</b>        |        |       |
|                    |        |       |                         |        |       | <b>THREE MILE ISLAND 1</b> |        |       |                        |        |       |
|                    |        |       |                         |        |       | <b>THREE MILE ISLAND 2</b> |        |       |                        |        |       |
|                    |        |       |                         |        |       | <b>LIMERICK 1</b>          |        |       |                        |        |       |
|                    |        |       |                         |        |       | <b>LIMERICK 2</b>          |        |       |                        |        |       |
|                    |        |       |                         |        |       | <b>SUSQUEHANNA 1</b>       |        |       |                        |        |       |
|                    |        |       |                         |        |       | <b>SUSQUEHANNA 2</b>       |        |       |                        |        |       |
|                    |        |       |                         |        |       | <b>RHODE ISLAND</b>        |        |       |                        |        |       |
|                    |        |       |                         |        |       |                            |        |       |                        |        |       |

LIC=LICENSES TO OPERATE  
UC/OL=UNDER CONSTRUCTION/UNDER OL REVIEW  
UC=UNDER CONSTRUCTION/OL APPLICATION NOT RECEIVED  
UR=UNDER CP REVIEW  
UR/LWA=UNDER CP REVIEW/LWA ISSUED

## INDEX TO REACTOR SITES

DATA AS OF MAY 2, 1980

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

## INDEX TO REACTOR SITES

| SITE/NAME (STATE)          | APPLICANT                          | UNITS PER SITE | LIC. | CONST. AUTH. | PLANNED |
|----------------------------|------------------------------------|----------------|------|--------------|---------|
| 53. NEW HAVEN (N.Y.)       | NEW YORK STATE ELECTRIC & GAS      | 2              |      |              | 2*      |
| 54. NINE MILE POINT (N Y ) | NIAGARA MOHAWK POWER CORP.         | 2              | 1    | 1            |         |
| 55. NORTH ANNA (VA)        | VIRGINIA ELECTRIC & POWER CO.      | 4              | 1    | 3            |         |
| 56. OCONEE (S.C.)          | DUKE POWER CO.                     | 3              | 3    |              |         |
| 57. OYSTER CREEK (N.J.)    | JERSEY CENTRAL POWER & LIGHT CO.   | 1              | 1    |              |         |
| 58. PALISADES (MICH)       | CONSUMERS POWER CO.                | 1              | 1    |              |         |
| 59. PALC VERDE (ARIZ)      | ARIZONA PUBLIC SERVICE CORP.       | 3              |      | 3            |         |
| 60. PEACH BOTTOM (PENN)    | PHILADELPHIA ELECTRIC CO.          | 2              | 2    |              |         |
| 61. PEBBLE SPRINGS (ORE)   | PORTLAND GENERAL ELECTRIC CO.      | 2              |      |              | 2*      |
| 62. PERKINS (N.C.)         | DUKE POWER CO.                     | 3              |      |              | 3*      |
| 63. PERRY (OHIO)           | CLEVELAND ELECTRIC ILLUM.CO.       | 2              |      | 2            |         |
| 64. PHIPPS BEND (TENN)     | TENNESSEE VALLEY AUTHORITY         | 2              |      | 2            |         |
| 65. PILGRIM (MASS)         | BOSTON EDISON CO                   | 2              | 1    |              | 1*      |
| 66. POINT BEACH (WISCC)    | WISCONSIN MICHIGAN POWER CO.       | 2              | 2    |              |         |
| 67. PRAIRIE ISLAND (MINN)  | NORTHERN STATES POWER CO.          | 2              | 2    |              |         |
| 68. QUAD-CITIES (ILL)      | COMMONWEALTH EDISON CO.            | 2              | 2    |              |         |
| 69. RANCHO SECO (CALIF)    | SACRAMENTO MUNICIPAL UTILITY DIST. | 1              | 1    |              |         |
| 70. RIVER BEND (LA)        | GULF STATES POWER CORP.            | 2              |      | 2            |         |
| 71. ROBINSON (S.C.)        | CAROLINA POWER & LIGHT CO.         | 1              | 1    |              |         |
| 72. ST LUCIE (FLA)         | FLORIDA POWER & LIGHT CO.          | 2              | 1    | 1            |         |
| 73. SALEM (N.J.)           | PUBLIC SERVICE ELECTRIC & GAS CO.  | 2              | 1    | 1            |         |
| 74. SAN ONOFRE (CALIF)     | SOUTHERN CALIFORNIA EDISON         | 3              | 1    | 2            |         |
| 75. SEABROOK (N.H.)        | PUBLIC SERVICE CO OF N.H.          | 2              |      | 2            |         |
| 76. SEQUOYAH (TENN)        | TENNESSEE VALLEY AUTHORITY         | 2              |      | 2            |         |
| 77. SHOREHAM (N Y )        | LONG ISLAND LIGHTING CO.           | 1              |      | 1            |         |
| 78. SKAGIT (WASHINGTON)    | PUGET SOUND POWER & LIGHT          | 2              |      |              | 2*      |
| 79. SO TEXAS (TEXAS)       | HJJUSTON LIGHTING & POWER CO.      | 2              |      | 2            |         |
| 80. STERLING (N Y)         | ROCHESTER GAS & ELECTRIC CO.       | 1              |      | 1            |         |
| 81. SUMMER (S . C.)        | SOUTH CAROLINA ELECTRIC & GAS CO.  | 1              |      | 1            |         |
| 82. SURRY (VA)             | VIRGINIA ELECTRIC & POWER CO.      | 2              | 2    |              |         |
| 83. SUSQUEHANNA (PA)       | PENNSYLVANIA POWER & LIGHT CO.     | 2              |      | 2            |         |
| 84. THREE MILE ISLAND (PA) | METROPOLITAN EDISON CO.            | 2              | 2    |              |         |
| 85. TROJAN (ORE)           | PORTLAND GENERAL ELECTRIC          | 1              | 1    |              |         |
| 86. TURKEY POINT (FLA)     | FLORIDA POWER & LIGHT CO.          | 2              | 2    |              |         |
| 87. VERMONT YANKEE (VT)    | VERMONT YANKEE NUCLEAR POWER.CO.   | 1              | 1    |              |         |
| 88. VOGTLE (GEORGIA)       | GEORGIA POWER CO.                  | 2              |      | 2            |         |
| 89. WPPSS (WASH) SATSOP    | WASH PUBLIC POWER SUPPLY SYS.      | 2              |      | 2            |         |
| 90. WPPSS (WASH) RICH      | WASH PUBLIC POWER SUPPLY SYS.      | 3              |      | 3            |         |
| 91. WATERFORD (LA)         | LOUISIANA POWER & LIGHT CO.        | 1              |      | 1            |         |
| 92. WATTS BAR (TENN)       | TENNESSEE VALLEY AUTHORITY         | 2              |      | 2            |         |
| 93. WOLF CREEK (KANSAS)    | KANSAS GAS & ELECTRIC CO.          | 1              |      | 1            |         |
| 94. YANKEE-ROWE (MASS)     | YANKEE ATOMIC ELECTRIC.CO.         | 1              | 1    |              |         |
| 95. YELLOW CREEK (MISS)    | TENNESSEE VALLEY AUTHORITY         | 2              |      | 2            |         |
| 96. ZIMMER (OHIO)          | CINCINNATI GAS & ELECTRIC.CO.      | 1              |      | 1            |         |
| 97. ZION (ILLINOIS)        | COMMONWEALTH EDISON CO.            | 2              | 2    |              |         |
|                            |                                    | 177**          | 70** | 93**         | 14**    |

\* CP APPLICATIONS UNDER REVIEW



## INDEX TO REACTOR SITES

### SUMMARY

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| 2 UNIT SITES - | 51 |
| 3 UNIT SITES - | 10 |
| 4 UNIT SITES - | 3  |
|                | 97 |

LICENSED TO OPERATE:

|                | SITES* | UNITS |
|----------------|--------|-------|
| 1 UNIT SITES - | 22     | 22    |
| 2 UNIT SITES - | 19     | 32    |
| 3 UNIT SITES - | 6      | 15    |
| 4 UNIT SITES - | 1      | 1     |
|                |        | 70    |

CONSTRUCTION AUTHORIZED:

|                | SITES* | UNITS |
|----------------|--------|-------|
| 1 UNIT SITES - | 9      | 9     |
| 2 UNIT SITES - | 33     | 61    |
| 3 UNIT SITES - | 5      | 12    |
| 4 UNIT SITES - | 3      | 11    |
|                |        | 93    |

PLANNED:

|                | SITES* | UNITS |
|----------------|--------|-------|
| 1 UNIT SITES - | 2      | 2     |
| 2 UNIT SITES - | 5      | 9     |
| 3 UNIT SITES - | 1      | 3     |
| 4 UNIT SITES - | 0      | 0     |
|                |        | 14    |

\* 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.

\*\* TOTALS INCLUDE SITES FOR POSTPONED AND SHUTDOWN UNITS NOT INCLUDED IN 'STATUS OF NUCLEAR POWER PLANTS' (1-4).

## INDEX TO REACTORS BY UTILITY OWNER

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

## INDEX TO REACTORS BY UTILITY OWNER

| UTILITY                              | REACTOR             | DOCKET TYPE | MWe | COOLING SOURCE          | COOLING METHOD |
|--------------------------------------|---------------------|-------------|-----|-------------------------|----------------|
| 55. DUKE POWER                       | PERKINS 1           | 05000488    | PWR | 1280 YADKIN RIVER       | CLOSED CYCLE   |
| 56. DUKE POWER                       | PERKINS 2           | 05000489    | PWR | 1280 YADKIN RIVER       | CLOSED CYCLE   |
| 57. DUKE POWER                       | PERKINS 3           | 05000490    | PWR | 1280 YADKIN RIVER       | CLOSED CYCLE   |
| 58. DUQUESNE LIGHT                   | BEAVER VALLEY 1     | 05000334    | PWR | 0852 OHIO RIVER         | CC HNDCT       |
| 59. DUQUESNE LIGHT                   | BEAVER VALLEY 2     | 05000412    | PWR | 0852 OHIO RIVER         | HNDCT          |
| 60. FLORIDA POWER & LIGHT            | ST LUCIE 1          | 05000335    | PWR | 0907 ATLANTIC OCEAN     | ONCE THRU      |
| 61. FLORIDA POWER & LIGHT            | ST LUCIE 2          | 05000389    | PWR | 0810 ATLANTIC OCEAN     | ONCE THRU      |
| 62. FLORIDA POWER & LIGHT            | TURKEY POINT 3      | 05000250    | PWR | 0666 BISCAYNE BAY       | CLOSED CANAL   |
| 63. FLORIDA POWER & LIGHT            | TURKEY POINT 4      | 05000251    | PWR | 0666 BISCAYNE BAY       | CLOSED CANAL   |
| 64. FLORIDA POWER CORPORATION        | CRYSTAL RIVER 3     | 05000302    | PWR | 0825 GULF OF MEXICO     | ONCE THRU      |
| 65. GEORGIA POWER                    | HATCH 1             | 05000321    | BWR | 0786 ALTAMAHA RIVER     | COOLING TOWER  |
| 66. GEORGIA POWER                    | HATCH 2             | 05000366    | BWR | 0795 ALTAMAHA RIVER     | COOLING TOWER  |
| 67. GEORGIA POWER                    | VOGTLE 1            | 05000424    | PWR | 1113 SAVANNAH RIVER     | CCCT           |
| 68. GEORGIA RIVER                    | VOGTLE 2            | 05000425    | PWR | 1113 SAVANNAH RIVER     | CCCT           |
| 69. GULF STATES UTILITIES            | RIVER BEND 1        | 05000458    | BWR | 0934 MISSISSIPPI RIVER  | MDCT           |
| 70. GULF STATES UTILITIES            | RIVER BEND 2        | 05000459    | BWR | 0934 MISSISSIPPI RIVER  | MDCT           |
| 71. HOUSTON LIGHTING & POWER         | ALLEN'S CREEK 1     | 05000466    | BWR | 1150 BRAZOS RIVER       | LAKE POND      |
| 72. HOUSTON LIGHTING & POWER         | SOUTH TEXAS 1       | 05000498    | PWR | 1250 COLORADO RIVER     | CC             |
| 73. HOUSTON LIGHTING & POWER         | SOUTH TEXAS 2       | 05000499    | PWR | 1250 COLORADO RIVER     | CC             |
| 74. ILLINOIS POWER                   | CLINTON 1           | 05000461    | BWR | 0933 SALT CREEK         | ONCE THRU      |
| 75. ILLINOIS POWER                   | CLINTON 2           | 05000462    | BWR | 0933 SALT CREEK         | ONCE THRU      |
| 76. INDIANA & MICHIGAN ELECTRIC      | COOK 1              | 05000315    | PWR | 1060 LAKE MICHIGAN      | ONCE THRU      |
| 77. INDIANA & MICHIGAN ELECTRIC      | COOK 2              | 05000316    | PWR | 1060 LAKE MICHIGAN      | ONCE THRU      |
| 78. IOWA ELECTRIC POWER & LIGHT      | DUANE ARNOLD        | 05000331    | BWR | 0535 CEDAR RAPIDS RIVER | CC FDCT        |
| 79. JERSEY CENTRAL POWER & LIGHT     | FORKED RIVER        | 05000363    | PWR | 1070                    | ONCE THRU      |
| 80. JERSEY CENTRAL POWER & LIGHT     | OYSTER CREEK 1      | 05000219    | BWR | 0640 BARNEGAT BAY       | ONCE THRU      |
| 81. KANSAS GAS & ELECTRIC            | WOLF CREEK 1        | 05000482    | PWR | 1150                    | COOLING LAKE   |
| 82. LONG ISLAND LIGHTING             | JAMESPORT 1         | 05000516    | PWR | 1150 LONG ISLAND SOUND  | ONCE THRU      |
| 83. LONG ISLAND LIGHTING             | JAMESPORT 2         | 05000517    | PWR | 1150 LONG ISLAND SOUND  | ONCE THRU      |
| 84. LONG ISLAND LIGHTING             | SHOREHAM            | 05000322    | BWR | 0819 LONG ISLAND SOUND  | ONCE THRU      |
| 85. LOUISIANA POWER & LIGHT          | WATERFORD 3         | 05000382    | PWR | 1113 MISSISSIPPI RIVER  | ONCE THRU      |
| 86. MAINE YANKEE ATOMIC POWER        | MAINE YANKEE        | 05000309    | PWR | 0790 BACK RIVER         | ONCE THRU      |
| 87. METROPOLITAN EDISON              | THREE MILE ISLAND 1 | 05000289    | PWR | 0819 SUSQUEHANNA RIVER  | CC,HNDCT       |
| 88. METROPOLITAN EDISON              | THREE MILE ISLAND 2 | 05000320    | PWR | 0906 SUSQUEHANNA RIVER  | CC,HNDCT       |
| 89. MISSISSIPPI POWER & LIGHT        | GRAND GULF 1        | 05000416    | BWR | 1250 MISSISSIPPI RIVER  | CCHNDCT        |
| 90. MISSISSIPPI POWER & LIGHT        | GRAND GULF 2        | 05000417    | BWR | 1250 MISSISSIPPI RIVER  | CCHNDCT        |
| 91. NEBRASKA PUBLIC POWER DISTRICT   | COOPER STATION      | 05000298    | BWR | 0778 MISSOURI RIVER     | ONCE           |
| 92. NY STATE ELECTRIC & GAS CO.      | NEW HAVEN 1         | 05000596    | PWR | 1250 UNKNOWN            |                |
| 93. NY STATE ELECTRIC & GAS CO.      | NEW HAVEN 2         | 05000597    | PWR | 1250 UNKNOWN            |                |
| 94. NIAGARA MOHAWK POWER             | NINE MILE POINT 1   | 05000220    | BWR | 0610 LAKE ONTARIO       | ONCE THRU      |
| 95. NIAGARA MOHAWK POWER             | NINE MILE POINT 2   | 05000410    | BWR | 1080 LAKE ONTARIO       | ONCE THRU      |
| 96. NORTHEAST NUCLEAR ENERGY         | MILLSTONE 1         | 05000245    | BWR | 0652 LONG ISLAND SOUND  | ONCE THRU      |
| 97. NORTHEAST NUCLEAR ENERGY         | MILLSTONE 2         | 05000336    | PWR | 0828 LONG ISLAND SOUND  | ONCE THRU      |
| 98. NORTHEAST NUCLEAR ENERGY         | MILLSTONE 3         | 05000423    | PWR | 1156 NIANTIC BAY        | ONCE THRU      |
| 99. NORTHEAST NUCLEAR ENERGY         | MONTAGUE 1          | 05000496    | BWR | 1150 CONNECTICUT RIVER  | CLSD LP CL TWR |
| 100. NORTHEAST NUCLEAR ENERGY        | MONTAGUE 2          | 05000497    | BWR | 1150 CONNECTICUT RIVER  | CLSD LP CL TWR |
| 101. NORTHERN INDIANA PUBLIC SERVICE | BAILLY 1            | 05000367    | BWR | 0645 LAKE MICHIGAN      | CC,HNDCT       |
| 102. NORTHERN STATES POWER           | MONTICELLO          | 05000263    | BWR | 0545 MISSISSIPPI RIVER  | VC, MDCT       |
| 103. NORTHERN STATES POWER           | PRAIRIE ISLAND 1    | 05000282    | PWR | 0530 MISSISSIPPI RIVER  | COOLING TOWERS |
| 104. NORTHERN STATES POWER           | PRAIRIE ISLAND 2    | 05000306    | PWR | 0530 MISSISSIPPI RIVER  | COOLING TOWERS |
| 105. OMAHA PUBLIC POWER DISTRICT     | FORT CALHOUN 1      | 05000285    | PWR | 0457 MISSOURI RIVER     | ONCE THRU      |
| 106. PACIFIC GAS & ELECTRIC          | DIABLO CANYON 1     | 05000275    | PWR | 1084 PACIFIC OCEAN      | ONCE THRU      |
| 107. PACIFIC GAS & ELECTRIC          | DIABLO CANYON 2     | 05000323    | PWR | 1106 PACIFIC OCEAN      | ONCE THRU      |
| 108. PACIFIC GAS & ELECTRIC          | HUMBOLDT BAY        | 05000133    | BWR | 0065 PACIFIC OCEAN      | ONCE THRU      |

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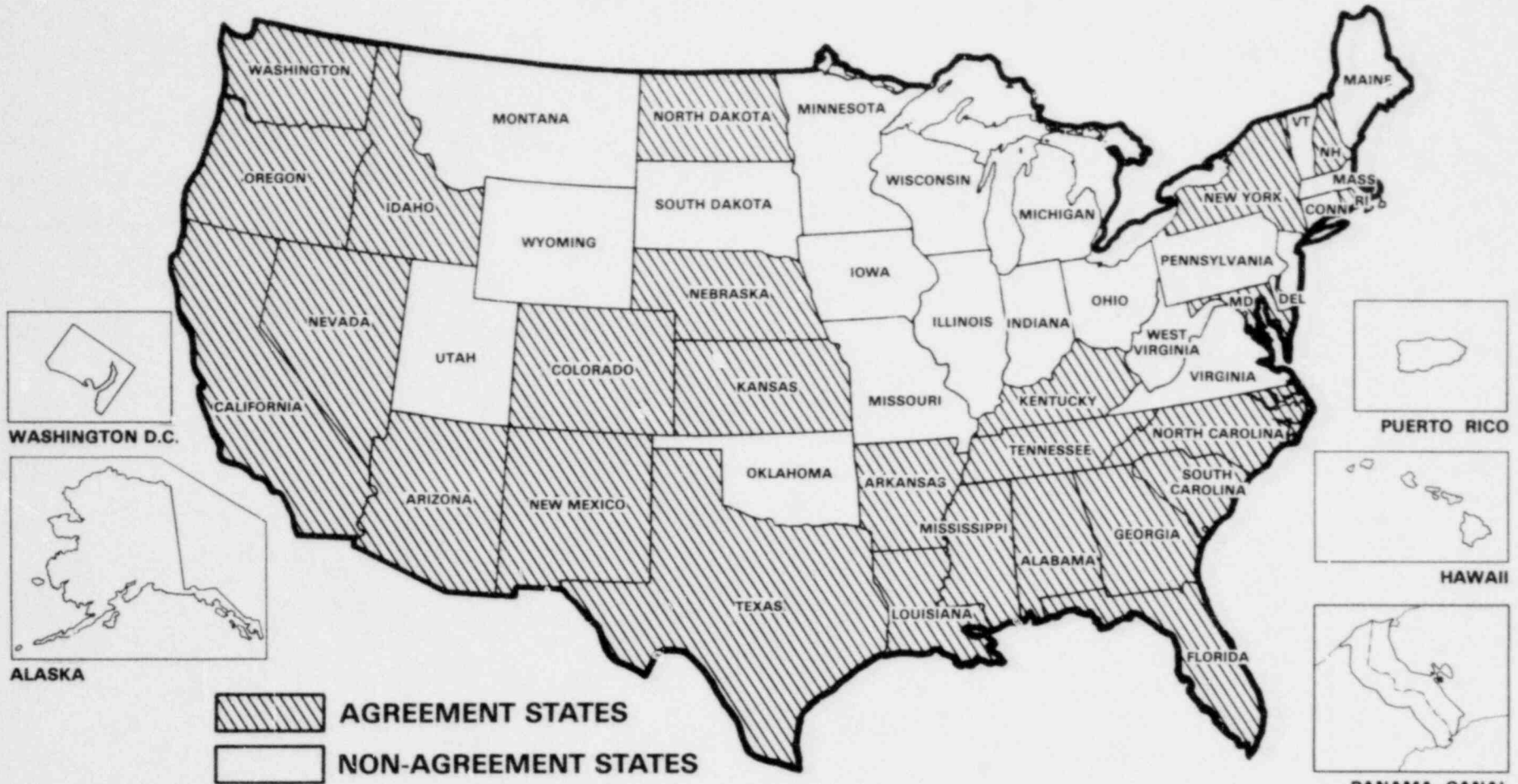
| UTILITY | REACTOR                          | DOCKET TYPE      | MWe      | COOLING SOURCE | COOLING METHOD |                      |                |
|---------|----------------------------------|------------------|----------|----------------|----------------|----------------------|----------------|
| 109.    | PENNSYLVANIA POWER & LIGHT       | SUSQUEHANNA 1    | 05000387 | BWR            | 1050           | SUSQUEHANNA RIVER    | CC,HNDCT       |
| 110.    | PENNSYLVANIA POWER & LIGHT       | SUSQUEHANNA 2    | 05000388 | BWR            | 1050           | SUSQUEHANNA RIVER    | CC,HNDCT       |
| 111.    | PHILADELPHIA ELECTRIC            | LIMERICK 1       | 05000352 | BWR            | 10             | SCHUYLKILL RIVER     | CC HNDCT       |
| 112.    | PHILADELPHIA ELECTRIC            | LIMERICK 2       | 05000353 | BWR            | 106            | SCHUYLKILL RIVER     | CC HNDCT       |
| 113.    | PHILADELPHIA ELECTRIC            | PEACH BOTTOM 2   | 05000277 | BWR            | 1065           | CONOWINGO POND       | VC,MDCT        |
| 114.    | PHILADELPHIA ELECTRIC            | PEACH BOTTOM 3   | 05000278 | BWR            | 1065           | CONOWINGO POND       | VC,MDCT        |
| 115.    | PORTLAND GENERAL ELECTRIC        | PEBBLE SPRINGS 1 | 05000514 | PWR            | 1260           | COLUMBIA RIVER       | CLOSED POND    |
| 116.    | PORTLAND GENERAL ELECTRIC        | PEBBLE SPRINGS 2 | 05000515 | PWR            | 1260           | COLUMBIA RIVER       | CLOSED POND    |
| 117.    | PORTLAND GENERAL ELECTRIC        | TROJAN           | 05000344 | PWR            | 1130           | COLUMBIA RIVER       | COOLING TOWERS |
| 118.    | POWER AUTHORITY OF STATE OF N.Y. | FITZPATRICK      | 05000333 | BWR            | 0821           | LAKE ONTARIO         | ONCE THRU      |
| 119.    | PROJECT MANAGEMENT CORP./TVA     | CLINCH RIVER     | 05000537 | LMFBR          | 0350           | CLINCH RIVER         | NDCT           |
| 120.    | PUBLIC SERVICE GAS & ELECTRIC    | HOPE CREEK 1     | 05000354 | BWR            | 1067           | DELAWARE RIVER       | NDCT           |
| 121.    | PUBLIC SERVICE GAS & ELECTRIC    | HOPE CREEK 2     | 05000355 | BWR            | 1067           | DELAWARE RIVER       | NDCT           |
| 122.    | PUBLIC SERVICE GAS & ELECTRIC    | SALEM 1          | 05000272 | PWR            | 1090           | DELAWARE RIVER       | ONCE THRU      |
| 123.    | PUBLIC SERVICE GAS & ELECTRIC    | SALEM 2          | 05000311 | PWR            | 1115           | DELAWARE RIVER       | ONCE THRU      |
| 124.    | PUBLIC SERVICE OF COLORADO       | FORT ST VRAIN    | 05000267 | HTGR           | 0330           | SO. PLATTE RIVER     | CLOSED HELIUM  |
| 125.    | PUBLIC SERVICE OF INDIANA        | MARBLE HILL 1    | 05000546 | PWR            | 1130           | OHIO RIVER           | CMDCT          |
| 126.    | PUBLIC SERVICE OF INDIANA        | MARBLE HILL 2    | 05000547 | PWR            | 1130           | OHIO RIVER           | CMDCT          |
| 127.    | PUBLIC SERVICE OF NEW HAMPSHIRE  | SEABROOK 1       | 05000443 | PWR            | 1200           | ATLANTIC OCEAN       | ONCE THRU      |
| 128.    | PUBLIC SERVICE OF NEW HAMPSHIRE  | SEABROOK 2       | 05000444 | PWR            | 1200           | ATLANTIC OCEAN       | ONCE THRU      |
| 129.    | PUBLIC SERVICE OF OKLAHOMA       | BLACK FOX 1      | 05000556 | BWR            | 1150           | VERIGRIS RIVER       | MECH DR CL TWR |
| 130.    | PUBLIC SERVICE OF OKLAHOMA       | BLACK FOX 2      | 05000557 | BWR            | 1150           | VERIGRIS RIVER       | MECH DR CL TWR |
| 131.    | PUGET SOUND POWER & LIGHT        | SKAGIT 1         | 05000522 | BWR            | 1277           | RANNEY COLLECTOR     | COOLING TOWERS |
| 132.    | PUGET SOUND POWER & LIGHT        | SKAGIT 2         | 05000523 | BWR            | 1277           | RANNEY COLLECTOR     | COOLING TOWERS |
| 133.    | ROCHESTER GAS & ELECTRIC         | GINNA            | 05000244 | PWR            | 0490           | LAKE ONTARIO         | ONCE THRU      |
| 134.    | ROCHESTER GAS & ELECTRIC         | STERLING 1       | 05000485 | PWR            | 1150           | COOLING LAKE         | COOLING TOWERS |
| 135.    | SACRAMENTO MUN. UTIL. DISTRICT   | RANCHO SECO      | 05000312 | PWR            | 0913           | FOLSON CANAL         | COOLING TOWERS |
| 136.    | SOUTH CAROLINA ELECTRIC & GAS    | SUMMER 1         | 05000395 | PWR            | 0900           | MONTECELLO RESERVOIR | ONCE THRU      |
| 137.    | SOUTHERN CALIFORNIA EDISON       | SAN ONOFRE 1     | 05000206 | PWR            | 0430           | PACIFIC OCEAN        | ONCE THRU      |
| 138.    | SOUTHERN CALIFORNIA EDISON       | SAN ONOFRE 2     | 05000361 | PWR            | 1140           | PACIFIC OCEAN        | ONCE THRU      |
| 139.    | SOUTHERN CALIFORNIA EDISON       | SAN ONOFRE 3     | 05000362 | PWR            | 1140           | PACIFIC OCEAN        | ONCE THRU      |
| 140.    | TENNESSEE VALLEY AUTHORITY       | BELLEFONTE 1     | 05000438 | PWR            | 1213           | GUNTERVILLE RES      | CCHMDCT        |
| 141.    | TENNESSEE VALLEY AUTHORITY       | BELLEFONTE 2     | 05000439 | PWR            | 1213           | GUNTERVILLE RES      | CCHNDCT        |
| 142.    | TENNESSEE VALLEY AUTHORITY       | BROWNS FERRY 1   | 05000259 | BWR            | 1067           | TENNESSEE RIVER      | ONCE THRU      |
| 143.    | TENNESSEE VALLEY AUTHORITY       | BROWNS FERRY 2   | 05000260 | BWR            | 1067           | TENNESSEE RIVER      | ONCE THRU      |
| 144.    | TENNESSEE VALLEY AUTHORITY       | BROWNS FERRY 3   | 05000296 | BWR            | 1067           | TENNESSEE RIVER      | ONCE THRU      |
| 145.    | TENNESSEE VALLEY AUTHORITY       | HARTSVILLE 1     | 05000518 | BWR            | 1233           | COOLING TOWERS       | CCNDCT         |
| 146.    | TENNESSEE VALLEY AUTHORITY       | HARTSVILLE 2     | 05000519 | BWR            | 1233           | COOLING TOWERS       | CCNDCT         |
| 147.    | TENNESSEE VALLEY AUTHORITY       | HARTSVILLE 3     | 05000520 | BWR            | 1233           | COOLING TOWERS       | CCNDCT         |
| 148.    | TENNESSEE VALLEY AUTHORITY       | HARTSVILLE 4     | 05000521 | BWR            | 1233           | COOLING TOWERS       | CCNDCT         |
| 149.    | TENNESSEE VALLEY AUTHORITY       | PHIPPS BEND 1    | 05000553 | BWR            | 1233           | HOLSTON RIVER        | CCNDCT         |
| 150.    | TENNESSEE VALLEY AUTHORITY       | PHIPPS BEND 2    | 05000554 | BWR            | 1233           | HOLSTON RIVER        | CCNDCT         |
| 151.    | TENNESSEE VALLEY AUTHORITY       | SEQUOYAH 1       | 05000327 | PWR            | 1148           | CHICKAMAUGA LAKE     | ONCE THRU      |
| 152.    | TENNESSEE VALLEY AUTHORITY       | SEQUOYAH 2       | 05000328 | PWR            | 1148           | CHICKAMAUGA LAKE     | ONCE THRU      |
| 153.    | TENNESSEE VALLEY AUTHORITY       | WATTS BAR 1      | 05000390 | PWR            | 1177           | TENNESSEE RIVER      | CC,HNDCT       |
| 154.    | TENNESSEE VALLEY AUTHORITY       | WATTS BAR 2      | 05000391 | PWR            | 1177           | TENNESSEE RIVER      | CC,HNDCT       |
| 155.    | TENNESSEE VALLEY AUTHORITY       | YELLOW CREEK 1   | 05000566 | PWR            | 1300           | YELLOW CRK EMBAY.    | MDCT           |
| 156.    | TENNESSEE VALLEY AUTHORITY       | YELLOW CREEK 2   | 05000567 | PWR            | 1300           | YELLOW CRK EMBAY.    | MDCT           |
| 157.    | TEXAS UTILITIES GENERATING       | COMANCHE PEAK 1  | 05000445 | PWR            | 1150           | SQUAW CREEK RES      | CC ART         |
| 158.    | TEXAS UTILITIES GENERATING       | COMANCHE PEAK 2  | 05000446 | PWR            | 1150           | SQUAW CREEK RES      | CC ART         |
| 159.    | TOLEDO EDISON                    | DAVIS-BESSE 1    | 05000346 | PWR            | 0906           | LAKE ERIE            | HDDCT          |
| 160.    | UNION ELECTRIC                   | CALLAWAY 1       | 05000483 | PWR            | 1120           | COOLING POND         | CC ART         |
| 161.    | UNION ELECTRIC                   | CALLAWAY 2       | 05000486 | PWR            | 1120           | COOLING POND         | CC ART         |
| 162.    | VERMONT YANKEE NUCLEAR POWER     | VERMONT YANKEE 1 | 05000271 | BWR            | 0514           | CONNECTICUT RIVER    | CC CT          |

## INDEX TO REACTORS BY UTILITY OWNER

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

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

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