

SEP 25 1968

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Docket Nos. 50-272 &
 50-311 ←

Public Service Electric and Gas Company
 80 Park Place
 Newark, New Jersey 07101

Attention: Mr. Robert I. Smith
 General Manager - Engineering
 Electric Department

Gentlemen:

Reference is made to your application amendment filed January 22, 1968, for authorization to construct and operate the Salem Nuclear Generating Station Units 1 and 2. Copies of Provisional Construction Permits Nos. CPPR-52 and CPPR-53 granted the Companies noted in the permits are enclosed, together with a related notice which has been transmitted to the Office of the Federal Register for filing and publication.

The permits have been issued pursuant to the Initial Decision of the Atomic Safety and Licensing Board. A copy of the decision is enclosed.

Sincerely,

Original Signed by
 Peter A. Morris

Peter A. Morris, Director
 Division of Reactor Licensing

Enclosures:

1. Construction Permits
2. Fed. Reg. Notice
3. Initial Decision

PBC

✓

OFFICE ▶	RL:RPB-1	RL:RPB-1	RL:RPB-1	RL:RP	RL
SURNAME ▶	<i>NMB</i> NMBlunt:brm	<i>DBV</i> DBVassallo	<i>DRM</i> DRMuller	RSBoyd	<i>M</i> PAMorris
DATE ▶	9/4/68	9/17/68	9/17/68	9/ /68	9/28/68



UNITED STATES
ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

PHILADELPHIA ELECTRIC COMPANY

DELMARVA POWER AND LIGHT COMPANY

ATLANTIC CITY ELECTRIC COMPANY

(Salem Nuclear Generating Station, Unit No. 1)

DOCKET NO. 50-272

PROVISIONAL CONSTRUCTION PERMIT

Construction Permit No. CPPR-52

1. Pursuant to Section 104(b) of the Atomic Energy Act of 1954, as amended (the Act), and Title 10, Chapter 1, Code of Federal Regulations, Part 50, "Licensing of Production and Utilization Facilities," and pursuant to the order of the Atomic Safety and Licensing Board, the Atomic Energy Commission (the Commission) hereby issues a provisional construction permit to Public Service Electric and Gas Company, Philadelphia Electric Company, Delmarva Power and Light Company, and Atlantic City Electric Company with Public Service Electric and Gas Company acting as the representative of the other three companies, (the applicants) for a utilization facility (the facility), designed to operate at 3250 megawatts (thermal), described in the application and amendments thereto (the application) filed in this matter by the applicants and as more fully described in the evidence received at the public hearing upon that application. The facility, known as Salem Nuclear Generating Station, Unit No. 1, will be located at the applicants' Salem County, New Jersey site on the southern part of Artificial Island on the east bank of the Delaware River in Lower Alloways Creek Township, approximately 18 miles south of Wilmington, Delaware and 30 miles southwest of Philadelphia, Pennsylvania.
2. This permit shall be deemed to contain and be subject to the conditions specified in Sections 50.54 and 50.55 of said regulations; is subject to all applicable provisions of the Act, and rules, regulations and orders of the Commission now or hereafter in effect; and is subject to the conditions specified or incorporated below:
 - A. The earliest date for the completion of the facility is December 1, 1971, and the latest date for completion of the facility is May 1, 1972.
 - B. The facility shall be constructed and located at the site as described in the application in Lower Alloways Creek Township, Salem County, New Jersey.

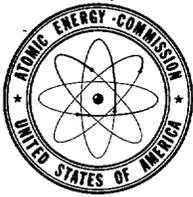
- C. This construction permit authorizes the applicants to construct the facility described in the application and the hearing record in accordance with the principal architectural and engineering criteria set forth therein.
3. This permit is provisional to the extent that a license authorizing operation of the facility will not be issued by the Commission unless (a) the applicants submit to the Commission, by amendment to the application, the complete final safety analysis report, portions of which may be submitted and evaluated from time to time; (b) the Commission finds that the final design provides reasonable assurance that the health and safety of the public will not be endangered by the operation of the facility in accordance with procedures approved by it in connection with the issuance of said license; and (c) the applicants submit proof of financial protection and the execution of an indemnity agreement as required by Section 170 of the Act.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed by
Peter A. Morris

Peter A. Morris, Director
Division of Reactor Licensing

Dated at Bethesda, Maryland
this 25th day of September, 1968.



UNITED STATES
ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

PHILADELPHIA ELECTRIC COMPANY

DELMARVA POWER AND LIGHT COMPANY

ATLANTIC CITY ELECTRIC COMPANY

(Salem Nuclear Generating Station, Unit No. 2)

DOCKET NO. 50-311

PROVISIONAL CONSTRUCTION PERMIT

Construction Permit No. CPPR-53

1. Pursuant to Section 104(b) of the Atomic Energy Act of 1954, as amended (the Act), and Title 10, Chapter 1, Code of Federal Regulations, Part 50, "Licensing of Production and Utilization Facilities," and pursuant to the order of the Atomic Safety and Licensing Board, the Atomic Energy Commission (the Commission) hereby issues a provisional construction permit to Public Service Electric and Gas Company, Philadelphia Electric Company, Delmarva Power and Light Company, and Atlantic City Electric Company with Public Service Electric and Gas Company acting as the representative of the other three companies, (the applicants) for a utilization facility (the facility), designed to operate at 3250 megawatts (thermal), described in the application and amendments thereto (the application) filed in this matter by the applicants and as more fully described in the evidence received at the public hearing upon that application. The facility, known as Salem Nuclear Generating Station, Unit No. 2, will be located at the applicants' Salem County, New Jersey site on the southern part of Artificial Island on the east bank of the Delaware River in Lower Alloways Creek Township, approximately 18 miles south of Wilmington, Delaware and 30 miles southwest of Philadelphia, Pennsylvania.
2. This permit shall be deemed to contain and be subject to the conditions specified in Sections 50.54 and 50.55 of said regulations; is subject to all applicable provisions of the Act, and rules, regulations and orders of the Commission now or hereafter in effect; and is subject to the conditions specified or incorporated below:
 - A. The earliest date for the completion of the facility is December 1, 1972, and the latest date for completion of the facility is May 1, 1973.
 - B. The facility shall be constructed and located at the site as described in the application in Lower Alloways Creek Township, Salem County, New Jersey.

- C. This construction permit authorizes the applicants to construct the facility described in the application and the hearing record in accordance with the principal architectural and engineering criteria set forth therein.
3. This permit is provisional to the extent that a license authorizing operation of the facility will not be issued by the Commission unless (a) the applicants submit to the Commission, by amendment to the application, the complete final safety analysis report, portions of which may be submitted and evaluated from time to time; (b) the Commission finds that the final design provides reasonable assurance that the health and safety of the public will not be endangered by the operation of the facility in accordance with procedures approved by it in connection with the issuance of said license; and (c) the applicants submit proof of financial protection and the execution of an indemnity agreement as required by Section 170 of the Act.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed by
Peter A. Morris

Peter A. Morris, Director
Division of Reactor Licensing

Dated at Bethesda, Maryland
this 25th day of September, 1968.

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NOS. 50-272 AND 50-311

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

PHILADELPHIA ELECTRIC COMPANY

DELMARVA POWER AND LIGHT COMPANY

ATLANTIC CITY ELECTRIC COMPANY

NOTICE OF ISSUANCE OF PROVISIONAL CONSTRUCTION PERMITS

Notice is hereby given that, pursuant to the Initial Decision of the Atomic Safety and Licensing Board, dated September 24, 1968, the Director of the Division of Reactor Licensing has issued Provisional Construction Permits Nos. CPPR-52 and CPPR-53 to Public Service Electric and Gas Company, Philadelphia Electric Company, Delmarva Power and Light Company, and Atlantic City Electric Company for the construction of two pressurized water nuclear reactors at the applicants' site in Lower Alloways Creek Township, Salem County, New Jersey. The reactors, known as the Salem Nuclear Generating Station Units 1 and 2, are each designed for initial operation at approximately 3250 thermal megawatts with a net electrical output of approximately 1050 megawatts.

A copy of the Initial Decision is on file in the Commission's Public Document Room, 1717 H Street, Washington, D. C.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed by
Peter A. Morris

Peter A. Morris, Director
Division of Reactor Licensing

Dated at Bethesda, Maryland
this 25th day of September, 1968.

Statement of the Proceedings

This proceeding involves the application of Public Service Electric and Gas Company on its own behalf and as the representative of Atlantic City Electric Company, Delmarva Power & Light Company and Philadelphia Electric Company (Applicants). The application dated December 13, 1966, sought a permit to construct a nuclear generating station in Burlington Township and Burlington City, Burlington County, New Jersey. Subsequent amendments to this application changed the location of the nuclear generating station to Lower Alloways Creek Township, Salem County, New Jersey. Nine amendments have been filed to the original application; seven of the amendments contained additional or revised technical information and two contained additional corporate and financial data. The application and amendments (hereinafter collectively referred to as "the application") was filed under §104 b. of the Atomic Energy Act of 1954, as amended (the "Act") for provisional construction permits to construct two pressurized water reactors (referred to collectively as "the facility"). Each reactor is designed to operate initially at a power of 3250 Mw (thermal) and ultimately at 3391 Mw (thermal).

The application was reviewed by the Regulatory Staff (Staff) of the Atomic Energy Commission (Commission), which concluded that the proposed plant can be built and operated at the proposed location without undue risk to the health and safety of the public. The application was also reviewed by the Advisory Committee on Reactor Safeguards, which concluded that the proposed reactors can be constructed at the proposed site with reasonable assurance that they can be operated without undue risk to the health and safety of the public.

On July 11, 1968, the Commission issued a "Notice of Hearing on Application for Provisional Construction Permits" which contained the issues to be considered and initially decided by this Atomic Safety and Licensing Board (the "Board") designated by the Commission to conduct this proceeding as a basis for determining whether provisional construction permits should be issued to the Applicants. The Notice of Hearing was published on July 13, 1968, in the Federal Register (33 F.R., 10120 et seq.).

On July 18, 1968, a Petition for Leave to Intervene was filed by the State of New Jersey. By Order of this Board effective August 1, 1968 and with the consent of the Applicants and the Staff, the intervention was allowed.

A Pre-Hearing Conference was held on August 1, 1968, at Washington, D. C. and a Hearing was held at Salem, New Jersey on August 15-16, 1968, pursuant to the Notice of Hearing. At the Hearing evidence was presented by the Applicant, the Staff and the Intervenor, the State of New Jersey.

At the Hearing limited appearances pursuant to the provisions of 10 CFR §2.715(a) of the Commission's Rules of Practice were made by John A. Waddington, former New Jersey Senator from Salem County; John Pancoast, member of the Board of Chosen Freeholders of Salem County; Lawrence R. Corn, a citizen residing in Mount Holly, New Jersey; Roscoe P. Kandle, State Commissioner

of Health; Robert A. Roe, State Commissioner of Conservation and Economic Development; William F. Hyland, Chairman, New Jersey Atomic Energy Council; and B. Harold Smick, Sr., Director, Board of Chosen Freeholders of Salem County.

Findings of Fact

1. Applicants, Atlantic City Electric Company and Public Service Electric and Gas Company are corporations organized under the laws of the State of New Jersey, Delmarva Power & Light Company is a corporation organized under the laws of the State of Delaware, and Philadelphia Electric Company is a corporation organized under the laws of the Commonwealth of Pennsylvania. The Applicants are long established public utilities, are soundly financed, and have substantial resources. The facility will be owned by the foregoing corporations as tenants in common, their respective undivided interests as tenants in common and their respective capacity and energy entitlements in the output of the facility will be as follows:

Public Service Electric and Gas Company	42.59%
Philadelphia Electric Company	42.59%
Atlantic City Electric Company	7.41%
Delmarva Power & Light Company	7.41%

The Applicants plan to finance the cost of construction of the proposed facility as an integral part of their total construction

programs, namely, in the ordinary course of business through funds derived from operations and through short term borrowings and the issuance and sale of securities. Applicants are financially qualified to design and construct the proposed facility.

2. Applicant, Public Service Electric and Gas Company, in its own behalf and as representative of the co-owners, will be solely responsible for design and construction of the facility and is the architect-engineer. Although this will be the first nuclear generating station that the Public Service Electric and Gas Company has designed and built, the Electrical Engineering Department of the Applicant has considerable relevant experience. Since 1935 the Electrical Engineering Department has designed, purchased and supervised the erection of new fossil fueled units with increasing unit sizes up to 600 Mw (electric) and a total capacity of 4374 Mw (electric). Eight engineers in responsible positions in the Electrical Engineering Department have considerable training and experience on major nuclear projects. Many other engineers in the department have participated in design studies of nuclear plants and have attended courses and seminars that were concerned with nuclear engineering and nuclear power plants and were presented by major reactor suppliers, consultants, the Massachusetts Institute of Technology, and the University of Michigan. Through the Company's membership in Atomic Power Development Associates and High Temperature Reactor Development

Associates officers of the Company as well as engineering personnel have been directly involved in the Enrico Fermi Atomic Power Station and Peach Bottom Atomic Power Station projects. The Applicant has engaged United Engineers and Constructors, which has been involved in several nuclear power projects licensed by the Commission, to serve as construction manager for the facility. The Westinghouse Electric Company, which has extensive experience in designing and building pressurized water reactors, will provide the nuclear steam supply systems. The applicant has indicated an awareness of the importance of quality assurance in designing and building a nuclear power plant and has described a quality assurance program for the facility. This program involves the Applicant, United Engineers and Constructors, the suppliers (principally the Westinghouse Electric Company) and the Southwest Research Institute as a consultant to the Applicant. The Applicant is technically qualified to design and build the facility.

3. The site is a 700 acre plot on the southern part of Artificial Island which is on the east bank of the Delaware River in Lower Alloways Creek Township, Salem County, New Jersey. The river is more than 2 miles wide at the site and the land area immediately surrounding the site consists almost entirely of tidal marshes and grasslands. The closest site boundary inland is 4200 ft from the proposed reactor building. There are no permanent

residences within 13,000 ft of the reactor building. The Applicant has designated the entire site and additional area over water equal to approximately 3 times the area of the property as the exclusion area and has specified a radius of 5 miles for the low population zone. The 1967 population of the low population zone was about 1184 people and it is expected to increase to about 2175 by 1997. The nearest population center of about 25,000 people is Bridgeton, New Jersey, 15- $\frac{1}{2}$ miles east of the site. Wilmington, Delaware with about 100,000 population is 18 miles to the north. The Philadelphia, Pennsylvania and Camden, New Jersey metropolitan area with 3.6 million people begins about 30 miles to the north-northeast of the site.

4. The facility is to contain two closed cycle pressurized water nuclear steam supply systems, each housed in a separate containment building. Some buildings and equipment are shared by the two units but the sharing is minimal and does not significantly affect the safety of the facility. The principal features and design bases for the nuclear steam supply systems are identical to those of the Diablo Canyon plant of the Pacific Gas and Electric Company for which a provisional construction permit was recently issued by the Commission.

5. Each reactor and its primary coolant system will be located within a steel-lined reinforced concrete containment vessel. Each will have an emergency core cooling system consisting of two high pressure injection pumps, two low pressure injection

pumps and four accumulators. This system does not differ in concept or capacity from those previously reviewed and licensed. A system will be provided to spray borated water containing dissolved sodium hydroxide into the containment to remove heat and radioactive iodine in the event of an accident involving the loss of primary cooling water. During normal plant operation a containment ventilation system consisting of five air coolers within the containment will serve to maintain normal operating temperatures. The coolers, alone or in conjunction with the core spray system, will be capable of reducing the pressure and temperature in the containment after a design basis accident.

6. The proposed facility incorporates features requiring research and development programs in order to finalize design details. Additional research and development work is required to:

- a. complete the design of the emergency core cooling system;
- b. establish the final core thermal-hydraulic, nuclear and mechanical design parameters; and
- c. complete the design of the containment spray system.

The Applicant provided the Board with detailed descriptions of programs in progress to resolve items a and b. The Applicant stated that the research and development on the chemical and chemical engineering aspects of the containment spray system, item c, were now complete for this facility. The Applicant took the position that sufficient data had been obtained concerning the chemistry of the spray solutions, the performance of the

sprays in absorbing iodine, and the effects of variations in flow and pressure at the nozzles on performance to make an adequate design of a containment spray system and that only the details of the piping systems remained to be developed. The Applicant testified that research and development work was continuing on some aspects of the containment spray systems for plants in which the efficiency of iodine removal must be greater than for this facility. The Staff testified that it had not completed its evaluation of the foregoing development work relative to the containment spray system and could not presently say whether it might, as a result of its evaluation, require that more research and development be done. The Staff's conservative analysis of the loss of coolant accident indicates that the containment spray system must remove some iodine for the potential 2 hr dose to the thyroid at the boundary of the site to be within the 10 CFR 100 guidelines. The Board emphasized to the Applicant and the Staff the importance of determining what minimum iodine reduction factor is required of the spray systems and of determining the magnitude of the necessary design contingencies which must be incorporated to allow for possible uncertainties in the design analyses presently used to predict iodine absorption by this spray system.

Among the significant uncertainties are the effective drop-size distribution within the Salem containment system under

the conditions of a design-basis accident, the effects of this distribution on iodine absorption, the effects of the spray droplet flow trajectories, and the circulation and mixing characteristics of the gas in the containment space. The applicant does not plan to test the iodine-absorption performance of the containment spray system installed at the Salem facility. Further data on the performance of smaller scale containment-spray scrubbing system are expected to be provided from tests underway at Oak Ridge National Laboratory and at the Battelle Northwest Laboratory. The extent to which present data confirm the adequacy of the design of the Salem containment spray scrubbing system for iodine removal, and the extent to which further research and development may be necessary, are yet to be evaluated by the AEC staff and were not resolved at this hearing.

The foregoing programs and any additional programs that are required as a result of the staff evaluation can be expected to resolve the remaining safety questions and provide the data necessary to construct the facility in accordance with the criteria and specifications set forth in the application.

7. The application contains a description of the site and the basis for its suitability, a detailed description of the proposed facility including those reactor systems and features which are essential to safety, an analysis of the safety features provided for in the facility design, and an evaluation of various

postulated accidents and hazards involved in the operation of such a facility and the engineered safety features provided to limit their effect. Additional testimony and documentary evidence relative to these matters is included in the evidentiary record. Also included in the application and the testimony is evidence of the financial qualifications of the Applicants and the technical qualifications of the Applicant Public Service Electric and Gas Company, including those of its contractors, to design and construct the facility. The Staff's review of the application explains the consideration which was given by the Staff to the important safety features of the proposed facility and the significance assigned to those systems and features important to the prevention and mitigation of accidents. As a result of recommendations by the Staff, the Applicant modified some parts of the proposed design to provide greater assurance of safety. The Staff stated that the proposed design satisfies all except Criterion 22 of the Commission's General Design Criteria for Nuclear Power Plant Construction Permits. The separation of protection and control instrumentation is a problem with all Westinghouse pressurized water reactors now under construction. The Staff will continue to review the design of the instrumentation and control systems until the problem is resolved.

8. The activities to be conducted under the permit applied

for will be within the jurisdiction of the United States, and all of the Directors and principal officers of the Applicants are United States citizens. The Applicants are not owned, controlled or dominated by any alien, foreign corporation or foreign government.

9. The Intervenor concluded that this facility can be built and operated at the proposed site without undue risk to the health and safety of the general public. The Intervenor is primarily concerned with matters which pertain more properly to the operating license stage of review and proposes to resolve its concerns through discussions with the Applicant during construction of the facility. The issues of concern have to do with accurate monitoring of the release of radioactivity to the environment under normal and abnormal operating conditions, minimization of batch discharges of tritium, plans for protecting the public in an emergency, and the environmental monitoring program and effects of radioactive discharges on marine life. The State of New Jersey has laws that regulate the operation of nuclear facilities and prescribe limits for the discharge of radioactivity to the environment. The limits are essentially the same as those adopted by the Commission.

Conclusions

1. The application and the proceeding thereon comply with the requirements of the Act and the Commission's regulations. There are no unresolved safety questions pertinent to the issuance of a provisional construction permit. The proceeding was not a

contested proceeding, as defined by 10 CFR §2.4(n).

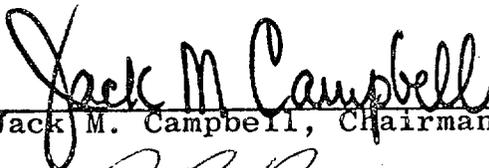
2. The Board has given careful consideration to all of the documentary and oral evidence presented in this proceeding. Based on our review of the entire record in this proceeding and the foregoing Findings of Fact and Conclusions of Law, we conclude that the application and the record of the proceeding contain sufficient information and the review of the application by the Staff has been adequate to support, (1) the findings proposed to be made by the Director of Regulation, and (2) the issuance of the provisional construction permit, as proposed by the Director of Regulation.

Order

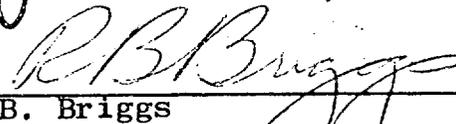
Pursuant to the Act and the Commission's Regulations, IT IS ORDERED THAT, subject to review by the Commission upon its own motion or upon the filing of exceptions in accordance with the "Rules of Practice," 10 CFR Part 2, the Director of Regulation is directed to issue to Public Service Electric and Gas Company, Philadelphia Electric Company, Atlantic City Electric Company and Delmarva Power & Light Company provisional construction permits pursuant to Section 104(b) of the Act substantially in the form of Appendix A and Appendix B to the Notice of Hearing in this proceeding within ten days from the date of issuance of this decision. IT IS FURTHER ORDERED,

in accordance with 10 CFR 2.764, good cause not having been shown to the contrary, this initial decision shall be immediately effective.

ATOMIC SAFETY AND LICENSING BOARD



Jack M. Campbell, Chairman



R. B. Briggs



Thomas H. Pigford

Dated this 24th day of September, 1968
at Washington, D. C.

REACTOR DATA INPUT FORM

A. IDENTIFYING & DESCRIPTIVE DATA

REACTORS

01. PROGRAM CODE 211	12. PROJ. NO.	03. DOCKET NO. 50-311	09. TASK NO. 210	10. TYPE OF REACTOR Pressurized water	11. CLASS OF REACTOR 10lb
15. APPLICANT Public Service Electric & Gas Company					19. NAME OF REACTOR Salem Nuclear Generating Station #2
21. STREET-BUILDING 80 Park Place			POWER LEVEL		
24. CITY Newark			27. STATE NJ		
30. ZIP 07101			33. YR. MO. DAY		
			36. YR. MO. DAY		
			39. YR. MO. DAY		
			42. YR. MO. DAY		
			45. YR. MO. DAY		
			48. YR. MO. DAY		
			51. YR. MO. DAY		
			54. YR. MO. DAY		
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			75. YR. MO. DAY		
			78. YR. MO. DAY		
			81. YR. MO. DAY		
			84. YR. MO. DAY		
			87. YR. MO. DAY		
			90. YR. MO. DAY		
			93. YR. MO. DAY		
			96. YR. MO. DAY		
			99. YR. MO. DAY		

B. ACTION DATA

BASIC PROCESSING STAGES

PRE-APPLICATION CONSIDERATION	ACTIV. CD.	74. FIRST ACTION	76. END ACTION (DATE APPL. CONSID.)		
	31	YR. MO. DAY	YR. MO. DAY	YR. MO. DAY	YR. MO. DAY
PROCESSING APPLICA. FOR CONSTRUCTION	APPLIC. REC.	CONSTRUCTION PER. ISSUED	78. LATEST COMPL. DATE		
	35	33. YR. MO. DAY 68 01 22	76. YR. MO. DAY 68 09 25	77. YR. MO. DAY	78. YR. MO. DAY 73 05 01
PROCESSING OPERATING AUTHORITY	PROVIS- IONAL	36	39. EXPIRATION DATE		
	FULL TERM	38	80. YR. MO. DAY	81. YR. MO. DAY	82. YR. MO. DAY
		STARTED	FULL TERM AUTH. ISSUED		
		84. YR. MO. DAY	85. YR. MO. DAY	86. YR. MO. DAY	87. YR. MO. DAY

SUPPLEMENTARY ACTION

TASK NO. (SAME AS FIELD 09)	86. DATE SUPPLE. REQUEST REC'D.	YR. MO. DAY	88. bbb	87. DATE SUPPLEMENTARY REQUEST (TASK) COMPLETED	YR. MO. DAY
42. PURPOSE OF REQUEST (TASK) Const Review			54. RESULT OF TASK (AM. NO., CHANGE NO., ETC.)		

C. STATISTICS

TYPE OF ACTION REQUESTED AND TAKEN		48. REQ.	51. TAK.	52. VOID INPUT ENTERED UNDER CODES IN FIELDS 01, 03 OR 12, AND 09 AS RECORDED ABOVE AND ACTIVITY CODE _____
A	REACTOR CONCEPT REVIEW			53. CONSOLIDATE INPUT ENTERED UNDER CODES IN FIELDS 01, 03 OR 12, AND 09 AS RECORDED ABOVE AND ACTIVITY CODE _____ WITH PROG. _____ PROJ. _____ TASK _____ ACT. _____
B	PRELIMINARY SITE REVIEW			
C	PRECONSTRUCTION STAGE REVIEW			
D	CONSTRUCTION PERMIT (C.P. REVIEW)	X	X	
E	AUTHORITY TO OPERATE (OP. STAGE REVIEW)			
F	AUTHORITY TO POSSESS ONLY			
G	AMENDMENT TO CONSTRUCTION PERMIT			
H	AMENDMENT TO OPERATING LICENSE			
I	CHANGE TO TECHNICAL SPECIFICATIONS			
J	EXEMPTION			
K	CONSTRUCTION PERMIT EXTENSION			
L	OPERATING LICENSE (OR AUTHORITY) EXTENSION			
M	DRL ORDER			
N	SPECIAL AUTHORITY			
T	LICENSE (OR AUTHORITY) TERMINATED OR EXPIRED			
O	OTHER (EXPLAIN)			