

JAN 26 1965

MEMORANDUM FOR CHAIRMAN SEABORG  
COMMISSIONER BUNTING  
COMMISSIONER PALFREY  
COMMISSIONER RAMEY  
COMMISSIONER TAPE

SUBJECT: PROPOSED ISSUANCE OF PROVISIONAL OPERATING LICENSE TO  
PHILADELPHIA ELECTRIC COMPANY FOR PEACH BOTTOM ATOMIC  
POWER STATION REACTOR, DOCKET NO. 50-171

Following a public hearing, the Commission issued Construction Permit No. OPR-12 on February 23, 1962, to the Philadelphia Electric Company authorizing construction of a developmental power reactor at the Company's site near Peach Bottom, York County, Pennsylvania. Construction of the reactor, designated as the Peach Bottom Atomic Power Station, has progressed to the point that construction and preoperational testing are expected to be completed by March 1965. Philadelphia Electric Company has submitted an amendment to its application, including the Final Hazards Summary Report, requesting a provisional operating license authorizing operation of the reactor up to 1 Mw(t) in accordance with Section 50.57 of 10 CFR 50. The ACRS reviewed the application and an analysis prepared by the Staff at its November, 1964, meeting and reported that there is reasonable assurance that the Peach Bottom Atomic Power Station can be operated at power levels up to 1 Mw(t) without undue hazard to the health and safety of the public.

There are no difficult safety problems of unusual public importance or substantial public interest which would warrant a recommendation by the staff to hold a public hearing to consider issuance of the proposed provisional operating license for the Peach Bottom Atomic Power Station. Consequently, I propose to authorize the Director of the Division of Reactor Licensing to publish in the Federal Register a 30-day Notice of the Proposed Issuance of a Provisional Operating License, and if no request for hearing or petition for leave to intervene is filed, to issue such license.

A-403

MEMORANDUM FOR THE COMMISSIONERS - 2 -

Attached as Appendix "A" is a copy of the thirty day public notice of proposed issuance with the proposed provisional operating license. The Technical Specifications, which will be incorporated in the proposed license, are attached as Appendix "B". A summary of the staff Hazards Analysis of the Peach Bottom Atomic Power Station, which discusses the general and specific features of this facility important to its safety, is attached as Appendix "C". The ACRS report is attached as Appendix "D" and the press release announcing the Notice of proposed action is attached as Appendix "E".

A copy of the complete Docket in this proceeding is available in the Division of Reactor Licensing.

(Signed) HLP

Harold L. Price  
Director of Regulation

cc: Office of the Secretary (2)  
General Counsel  
General Manager

H. L. Price, REG  
E. G. Case, DRL  
C. L. Henderson, REG  
S. Levine, DRL

Suppl.  
DRL Reading  
T&PRSB Reading

|           |                                      |        |                |               |                 |
|-----------|--------------------------------------|--------|----------------|---------------|-----------------|
| OFFICE ▶  | DRL<br>ERFleury                      | OGC    | DRL<br>SLevine | DRL<br>RLDoan | REG<br>HLPPrice |
| SURNAME ▶ | <i>See attached for concurrences</i> |        |                |               |                 |
| DATE ▶    | 1/26/65                              | 1/ /65 | 1/ /65         | 1/ /65        | 1/26/65         |

MEMORANDUM FOR THE COMMISSIONERS - 2 -

Attached as Appendix "A" is a copy of the thirty day public notice of proposed issuance with the proposed provisional operating license. The Technical Specifications, which will be incorporated in the proposed license, are attached as Appendix "B". A summary of the staff Hazards Analysis of the Peach Bottom Atomic Power Station, which discusses the general and specific features of this facility important to its safety, is attached as Appendix "C". The ACRS report is attached as Appendix "D" and the press release announcing the Notice of proposed action is attached as Appendix "E".

A copy of the complete Docket in this proceeding is available in the Division of Reactor Licensing

Harold L. Price, Director  
~~Division of Regulation~~

cc: Office of the Secretary (2)  
 General Counsel  
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 Supl.  
 DRL Reading  
 T&PRSB Reading

|           |              |                  |         |                |                |         |
|-----------|--------------|------------------|---------|----------------|----------------|---------|
| OFFICE ▶  | DRL          | OGC              | DRL     | <del>DRL</del> | <del>DRL</del> | REG     |
| SURNAME ▶ | ERFleury/ias | W.A. [Signature] | SLevine | EGCase         | RLDoan         | HLPrice |
| DATE ▶    | 1/18/65      | 1/19/65          | 1/21/65 | 1/1/65         | 1/22/65        | 1/ /65  |

APPENDIX "A"

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-171

PHILADELPHIA ELECTRIC COMPANY

NOTICE OF PROPOSED ISSUANCE OF FACILITY LICENSE

Pursuant to Section 189 of the Atomic Energy Act of 1954, as amended, Section 50.58 of 10 CFR 50 and Section 2.105 of 10 CFR 2, notice is hereby given that unless within thirty (30) days after publication of this notice in the Federal Register a request for a hearing is filed with the U. S. Atomic Energy Commission by the Philadelphia Electric Company or a petition for leave to intervene is filed by any person whose interest may be affected as provided by and in accordance with the Commission's Rules of Practice, 10 CFR 2, the Commission proposes to issue a provisional operating license to the Philadelphia Electric Company, substantially in the form set forth below, authorizing operation of the Peach Bottom Atomic Power Station Reactor located in York County, Pennsylvania, at power levels up to one (1) megawatt thermal.

The Commission has found that:

- A. The application, as amended, complies with the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations as set forth in Title 10, Chapter 1, CFR;
- B. There are involved features, characteristics and components as to which it appears desirable to obtain actual operating experience before the issuance of an operating license for the full term requested in the application;
- C. There is reasonable assurance (i) that the activities authorized by this provisional operating license can be conducted without

endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;

D. Philadelphia Electric is technically and financially qualified to engage in the activities authorized by the provisional operating license in accordance with the rules and regulations of the Commission, and to assume responsibility for payment of Commission Charges for the special nuclear material allocated;

E. The issuance of the provisional operating license is not inimical to the common defense and security or the the health and safety of the public.

Prior to the issuance of the license, the Philadelphia Electric Company will be required to provide proof of financial protection which satisfies the requirements of 10 CFR 140 and to execute an indemnity agreement as required by Section 170 of the Atomic Energy Act of 1954, as amended, and 10 CFR 140. In addition, prior to issuance of the license, the facility will be inspected by representatives of the Commission to determine whether it has been constructed in accordance with the provisions of Construction Permit No. DPPR-12, and that preoperational tests of those systems important to safe operation of the plant have been completed.

The application filed by the Philadelphia Electric Company dated July 25, 1960 and amendments thereto, (2) the report of the Advisory Committee on Reactor Safeguards (ACRS) dated November 18, 1964, (3) the Hazards Analysis by the Division of Reactor Licensing, and (4) the

Proposed Technical Specifications designated as Appendix "A" to the Provisional Operating License are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W. Washington, D. C. Copies of items (2) and (3) are available upon request addressed to the Atomic Energy Commission, Washington, D. C. 20545, Attention: Director, Division of Reactor Licensing.

FOR THE ATOMIC ENERGY COMMISSION

Director  
Division of Reactor Licensing

Dated at Bethesda, Maryland  
this            day of January, 1965

UNITED STATES ATOMIC ENERGY COMMISSION

PHILADELPHIA ELECTRIC COMPANY

DOCKET NO. 50-171

PROPOSED PROVISIONAL OPERATING LICENSE

1. This provisional operating license applies to the high-temperature, gas-cooled demonstration power reactor owned by the Philadelphia Electric Company (hereinafter referred to as "Philadelphia Electric") and designated by Philadelphia Electric as the "Peach Bottom Atomic Power Station". The reactor is located at Philadelphia Electric's site near Peach Bottom, York County, Pennsylvania, and is described in Philadelphia Electric's application for operating license dated July 25, 1960, and amendments thereto (hereinafter collectively referred to as "the application").
2. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Philadelphia Electric:
  - A. Pursuant to Section 104(b) of the Act and 10 CFR 50, to possess, use and operate the reactor as a utilization facility.
  - B. Pursuant to the Act and 10 CFR 70, to receive, possess and use in operation of the reactor at any one time:
    - (1) 250 kilograms of contained uranium-235
    - (2) 10 grams of uranium-233
  - C. Pursuant to the Act and 10 CFR 40, to receive, possess and use in operation of the reactor at any one time 1600 kilograms of thorium-232.
  - D. Pursuant to the Act and 10 CFR 30, to receive, possess and use in operation of the reactor at any one time 480 curies of polonium as polonium-beryllium neutron sources.
  - E. Pursuant to the Act and 10 CFR 30, to possess but not to separate such by-product material as may be produced by operation of the reactor.

3. This license shall be deemed to contain and be subject to the conditions specified in Section 30.32 of Part 30, Section 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70, Title 10, Chapter 1, CFR, and to be subject to all applicable provisions of the Act, and to the rules, regulations and orders of the Commission, now or hereafter in effect, and to the additional conditions specified below:

A. Philadelphia Electric shall not operate the reactor at power levels in excess of one (1) megawatt thermal.

B. Technical Specifications

The Technical Specifications contained in Appendix "A" hereto (hereinafter referred to as the "Technical Specifications") are hereby incorporated in this license. Except as otherwise permitted by the Act and the rules, regulations and orders of the Commission, Philadelphia Electric shall operate the reactor in accordance with the Technical Specifications.

C. Records

In addition to those otherwise required under this license and applicable regulations, Philadelphia Electric shall keep the following records:

- (1) Daily log of operations
- (2) Records of radioactivity released to the environment beyond the effective control of Philadelphia Electric as measured at or prior to the point of such release or discharge.
- (3) Records of radiation surveys and records of personnel exposures.
- (4) Records of containment isolation and reactor safety system actions, including reasons therefore.
- (5) Records of surveillance programs performed pursuant to the Technical Specifications.



- (6) Records of maintenance operations and reasons therefore on all containment isolation system, reactor safety system and reactor auxiliary system components.

D. Reports

In addition to reports otherwise required under this license and applicable regulations, Philadelphia Electric shall submit the following reports in writing to the Commission:

- (1) An immediate report of any indication or occurrence of a possible unsafe condition relating to the operation of the reactor, including, without implied limitation:
  - (a) Any substantial variance disclosed by operation of the reactor from the performance specifications set forth in the Technical Specifications;
  - (b) Any accidental release of radioactivity, whether or not resulting in property damage, personal injury or exposure above permissible limits.
- (2) Within thirty (30) days after the completion of one month of operation of the reactor (calculated from the date of achievement of initial criticality) and at the end of each month period thereafter, a report which summarizes the following:
  - (a) Items (2) through (6) of paragraph 3.C.
  - (b) The results of any significant tests conducted on the plant or plant equipment.
  - (c) Operating experience of the plant.
  - (d) Significant changes made in operating procedures and in plant organization.

(e) Contemplated activities relative to safety for the next report period.

4. Pursuant to Section 50.60 of 10 CFR 50, the Commission has allocated to Philadelphia Electric for use in the operation of the reactor 1880 kilograms of uranium-235 contained in uranium at the isotopic ratios specified in the application. Estimated schedules of special nuclear material transfers to Philadelphia Electric and returns to the Commission are contained in Appendix "B" attached hereto, which amends the allocation contained in Construction Permit No. CPPR-12. Transfers by the Commission to Philadelphia Electric in accordance with column (2) in Appendix "B" will be conditioned upon Philadelphia Electric's return to the Commission of material substantially in accordance with column (3) of Appendix "B".
5. This license shall be effective as of the date of issuance and shall expire eighteen (18) months from said date, unless extended for good cause shown, or upon the earlier issuance of a superceding operating license.

FOR THE ATOMIC ENERGY COMMISSION

Director  
Division of Reactor Licensing

Attachments:

1. Appendix "A"
2. Appendix "B"

Date of Issuance

APPENDIX "B"

ALLOCATION OF SPECIAL NUCLEAR MATERIAL  
TO PHILADELPHIA ELECTRIC COMPANY  
(PEACH BOTTOM STATION)

| (1)<br>FY | (2)<br>AEC<br>to PE | (3)<br>KG U-235<br>PE to AEC |                | (4)<br>Year<br>Net | (5)<br>Cummula-<br>tive |
|-----------|---------------------|------------------------------|----------------|--------------------|-------------------------|
|           |                     | Cold                         | Irrad.*        |                    |                         |
| Through   |                     |                              |                |                    |                         |
| 1965      | 327.2               | -0-                          | -0-            | 327.2              | 327.2                   |
| 1966      | -0-                 | 90.2                         | -0-            | (90.2)             | 237.0                   |
| 1967      | 261.7               | -0-                          | -0-            | 261.7              | 498.7                   |
| 1968      | -0-                 | 38.4                         | -0-            | (38.4)             | 460.3                   |
| 1969      | -0-                 | -0-                          | 97.8           | (97.8)             | 362.5                   |
| 1970      | 261.7               | -0-                          | -0-            | 261.7              | 624.2                   |
| 1971      | -0-                 | 38.4                         | -0-            | (38.4)             | 585.8                   |
| 1972      | -0-                 | -0-                          | 97.8           | (97.8)             | 488.0                   |
| 1973      | 261.7               | -0-                          | -0-            | 261.7              | 749.7                   |
| 1974      | -0-                 | 38.4                         | -0-            | (38.4)             | 711.3                   |
| 1975      | -0-                 | -0-                          | 97.8           | (97.8)             | 613.5                   |
| 1976      | 261.7               | -0-                          | -0-            | 261.7              | 875.2                   |
| 1977      | -0-                 | 38.4                         | -0-            | (38.4)             | 836.8                   |
| 1978      | -0-                 | -0-                          | 97.8           | (97.8)             | 739.0                   |
| 1979      | 261.7               | -0-                          | -0-            | 261.7              | 1,000.7                 |
| 1980      | -0-                 | 38.4                         | -0-            | (38.4)             | 962.3                   |
| 1981      | -0-                 | -0-                          | 97.8           | (97.8)             | 864.5                   |
| 1982      | 261.7               | -0-                          | -0-            | 261.7              | 1,126.2                 |
| 1983      | -0-                 | 38.4                         | -0-            | (38.4)             | 1,087.8                 |
| 1984      | -0-                 | -0-                          | 97.8           | (97.8)             | 990.0                   |
| 1985      | 261.7               | -0-                          | -0-            | 261.7              | 1,251.7                 |
| 1986      | -0-                 | 38.4                         | -0-            | (38.4)             | 1,213.3                 |
| 1987      | -0-                 | -0-                          | 97.8           | (97.8)             | 1,115.5                 |
| 1988      | 261.7               | -0-                          | -0-            | 261.7              | 1,377.2                 |
| 1989      | -0-                 | 38.4                         | -0-            | (38.4)             | 1,338.8                 |
| 1990      | -0-                 | -0-                          | 97.8           | (97.8)             | 1,241.0                 |
| 1991      | 261.7               | -0-                          | -0-            | 261.7              | 1,502.7                 |
| 1992      | -0-                 | 38.4                         | -0-            | (38.4)             | 1,464.3                 |
| 1993      | -0-                 | -0-                          | 97.8           | (97.8)             | 1,366.5                 |
| 1994      | 261.7               | -0-                          | -0-            | 261.7              | 1,628.2                 |
| 1995      | -0-                 | 38.4                         | -0-            | (38.4)             | 1,589.8                 |
| 1996      | -0-                 | -0-                          | 97.8           | (97.8)             | 1,492.0                 |
| 1997      | 261.7               | -0-                          | -0-            | 261.7              | 1,753.7                 |
| 1998      | -0-                 | 38.4                         | -0-            | (38.4)             | 1,715.3                 |
| 1999      | -0-                 | -0-                          | 97.8           | (97.8)             | 1,617.5                 |
| 2000      | 261.7               | -0-                          | -0-            | 261.7              | 1,879.2                 |
| 2001      | -0-                 | 38.4                         | -0-            | (38.4)             | 1,840.8                 |
| 2002      | -0-                 | -0-                          | 97.8           | (97.8)             | 1,743.0                 |
| 2003      | -0-                 | -0-                          | -0-            | -0-                | 1,743.0                 |
| 2004      | -0-                 | -0-                          | -0-            | -0-                | 1,743.0                 |
| 2005      | -0-                 | 13.0                         | 97.8           | (110.8)            | 1,632.2                 |
|           | <u>3,467.6</u>      | <u>564.0</u>                 | <u>1,271.4</u> | <u>1,632.2</u>     |                         |

\*Net quantity after reprocessing

## APPENDIX "C"

### PEACH BOTTOM ATOMIC POWER STATION

#### I. INTRODUCTION

On July 25, 1960 the Philadelphia Electric Company filed an application to construct a Class 104 b high temperature, gas-cooled nuclear reactor at a proposed location near Peach Bottom, York County, Pennsylvania. Subsequent to a review by the Regulatory Staff, a review by the Advisory Committee on Reactor Safeguards, and a public hearing, the Commission issued Construction Permit No. CPPR-12 on February 23, 1962.

Construction of the facility, designated the Peach Bottom Atomic Power Station, has progressed to the point that construction and pre-operational testing is expected to be completed by March 1965. The Philadelphia Electric Company filed an application on February 25, 1964 for a provisional operating license for initial operation of the reactor at power levels up to one megawatt (thermal). This application also included the Final Hazards Summary Report and pertinent information with respect to the financial and technical qualifications of the Company. The staff has evaluated the safety of operation of the Peach Bottom reactor based on the design described in the Final Hazards Summary Report. In addition, the application has also been considered by the ACRS and the Committee's favorable conclusions are expressed in its report of November 18, 1964.

The Peach Bottom Atomic Power Station is designed to be operated at 115.5 megawatts thermal. However the present application is for authority to operate at power levels up to one megawatt (thermal) for

a planned series of experiments which are designed to verify the basic physics characteristics of the reactor and to gain operating experience.

## II. GENERAL FEATURES

The Peach Bottom reactor is designed to produce a net electrical output of 40 megawatts. The reactor is fueled with approximately 236 kg of enriched uranium and about 6 times that much thorium fertile material. Both materials are in the form of pyrolytically coated carbides dispersed in a graphite matrix. The reactor moderator, reflector, fuel cladding and core structural material are all graphite. The coolant is helium gas circulated by centrifugal compressors. The hot helium gas flows to two steam generators where superheated steam is produced at 1000°F and 1450 psig and then utilized in a conventional steam turbine to generate electricity.

The reactor, primary helium piping and compressors, steam generators and auxiliary systems are located in a steel containment building that is filled with an inert atmosphere during operation to eliminate the possibility of a graphite fire or the formation of an explosive hydrogen mixture in the event of an accident involving a water graphite reaction. The steam plant, control room and spent-fuel pit are located in separate buildings.

The reactor is normally controlled by 36 hydraulically driven control rods, which enter the bottom of the reactor vessel. In addition two other reactor shutdown systems are provided: a group of 19 electrically driven emergency shutdown rods and a group of 55

thermally released gravity-drop neutron absorbers.

The reactor safety system components and circuitry are similar to those used in other nuclear power applications. Sufficient redundancy has been provided to permit testing of the entire system on a regularly scheduled basis while the reactor is operating.

A multiplicity of normal and emergency power sources are available to assure a continuous supply of power to vital system components.

Both gaseous and liquid waste disposal systems are of conventional design. Radiation monitors are provided in the ventilation exhaust system to monitor the activity of exhaust gases and to cause isolation of either the entire containment building or portions thereof in the event of abnormal indications.

All potentially radioactive liquids will be collected in two receiver tanks; then periodically pumped to one of two monitoring tanks where they are sampled for activity before discharge. If activity is too high, the effluent will be recirculated through a demineralizer and filter system until satisfactory levels are reached. Effluents discharged to Conowingo Pond will be maintained within drinking water tolerances.

### III. SPECIAL FEATURES

The Peach Bottom high-temperature, gas-cooled power reactor involves the use of graphite fuel and structural materials under conditions for which there is little previous experience in operating reactors. However, a large number of in-pile tests have been conducted to investigate the effects of irradiation, temperature and chemical

IV. ACCIDENT ANALYSIS

The consequences of a wide spectrum of accidents associated with operation of the Peach Bottom Atomic Power Station have been analyzed by the applicant and the staff. The postulated maximum accident involves a rupture and sudden depressurization of the primary coolant system in which both circulators become inoperative, and the water associated with the failure of one steam generator tube ultimately reacts with the core graphite. Although this is an exceedingly unlikely combination of circumstances, we believe it adequately defines an upper limit accident on which to estimate maximum potential off-site exposures. Since the core is assumed to be cooled only by the emergency cooling system, the core would continue to heat up and fission products would continuously be released to the containment building for a number of days after the primary system depressurization. Because of the large heat capacity of the graphite and the small quantity of fission products initially released, the estimated dose at the site boundary from normal leakage from the containment building for the first two hours under suitably conservative meteorological conditions is essentially negligible. It is calculated that the maximum 10 CFR 100 guideline dose value of 300 rem to the thyroid for a 30-day exposure could be received at a distance 3 miles upstream or downstream along Conowingo Pond. Provisions have been made and evacuation procedures developed to remove all persons (about 1100) within a 3-mile radius of the plant in the event of such an accident.

Since the river downstream of the site is utilized as a source of potable water, we have considered the contamination that might conceivably result from the maximum accident. Our calculations based on rainout of all fission products into the pond indicate that under all anticipated conditions, sufficient dilution would take place to reduce concentrations well below allowable values prior to transport as far as Conowingo Dam.

We have not identified any accident during operation up to 1 Mwt which would cause a significant hazard to the general public.

V. CONCLUSION

Based on the staff review of the final design, the proposed methods of operation and the comments of the ACRS, we have concluded that there is reasonable assurance that the Peach Bottom Atomic Power Station can be operated at thermal power levels up to one megawatt without undue risk to the health and safety of the public.



APPENDIX "D"

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS  
UNITED STATES ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

November 18, 1964

Honorable Glenn T. Seaborg  
Chairman  
U. S. Atomic Energy Commission  
Washington, D. C.

Subject: REPORT ON THE PEACH BOTTOM ATOMIC POWER STATION -  
PHILADELPHIA ELECTRIC COMPANY

Dear Dr. Seaborg:

At its fifty-ninth meeting, held on November 12-14, 1964, the Advisory Committee on Reactor Safeguards considered the proposal of the Philadelphia Electric Company to operate the Peach Bottom Atomic Power Station at power levels up to one megawatt (thermal). This station incorporates a helium-cooled, graphite-moderated, high-temperature reactor designed to produce 115 MW(th), with a net electrical output of 40 MW. The proposal to construct this plant was reported on by the Committee in its letter dated November 1, 1961. At the present review, the Committee had the benefit of oral presentations by representatives of the Philadelphia Electric Company and its consultants, the General Atomic Division of General Dynamics Corporation, the Bechtel Corporation, the AEC Staff, and of the documents listed below. In addition, a Subcommittee meeting was held on October 1, 1964.

The Peach Bottom reactor is designed to operate with a core-exit coolant temperature of approximately 1350°F, and it incorporates a number of novel features. These features include an essentially all-graphite core, pyrolytically-coated thorium-uranium-carbide fuel, rhodium-103 in the fuel to provide a negative moderator temperature coefficient, and a fission-product trapping system. These features have evolved from a research and development program carried on by General Atomic. The applicant plans to obtain further confirmation of the characteristics of many of these features by testing during initial operations up to 1 MW(th).

Honorable Glenn T. Seaborg

-2-

November 18, 1964

It is the opinion of the Advisory Committee on Reactor Safeguards that the Peach Bottom Atomic Power Station reactor can be operated at power levels of up to 1 MW(th) without undue hazard to the health and safety of the public.

Sincerely yours,

/s/ Herbert Kouts

Herbert Kouts  
Chairman

References Attached.

References:

1. "Duties, Qualifications and Training Program for Operating personnel, Peach Bottom Atomic Power Station", Philadelphia Electric Company, dated February 15, 1963.
2. "Design of Gas and Liquid Waste Disposal Systems, Peach Bottom Atomic Power Station", Philadelphia Electric Company, dated February 15, 1963.
3. Amendment No. 4 to Application of Philadelphia Electric Company for Construction Permit and Class 104 License, dated February 25, 1964, transmitting "Part C, Final Hazards Summary Report, Peach Bottom Atomic Power Station, Volumes I-V."
4. Amendment No. 5, dated July 7, 1964, transmitting Appendix A, "Proposed Technical Specifications, Peach Bottom Atomic Power Station."
5. Amendment No. 6, dated August 7, 1964, transmitting "Part C, Final Hazards Summary Report, Peach Bottom Atomic Power Station, Volume V (A)".
6. Semi-Annual Reports of Philadelphia Electric Company on the Peach Bottom Atomic Power Station:
  - a. First, dated August 23, 1962.
  - b. Second, dated February 23, 1963.
  - c. Third, dated August 23, 1963.
  - d. Fourth, dated February 23, 1964.
  - e. Fifth, dated August 24, 1964.
7. Replacement pages for Section V, Plant Operation, dated October, 1964.
8. "Part C, Final Hazards Summary Report, Peach Bottom Atomic Power Station, Supplement," undated, received October 15, 1964.

APPENDIX "E"

AEC PROPOSES TO ISSUE LICENSE FOR INITIAL OPERATION  
OF PEACH BOTTOM REACTOR IN PENNSYLVANIA

The Atomic Energy Commission proposes to issue a provisional operating license to Philadelphia Electric Company for initial low-power operation of the Peach Bottom Atomic Power Station in York County, Pennsylvania.

Under the license, Philadelphia Electric Company would be permitted to load nuclear fuel into the reactor and operate it at power levels not in excess of one thermal megawatt. No electricity would be produced at these power levels. The high temperature, gas cooled reactor is designed ultimately to produce 40,000 electrical kilowatts.

The facility was built by Philadelphia Electric Company and 52 associated utilities organized as High Temperature Reactor Development Associates, Inc. General Atomic Division of the General Dynamics Corporation is the principal nuclear contractor and Bechtel Corporation is the prime contractor.

The Commission's Division of Reactor Licensing has reviewed the application for license and has concluded that there is reasonable assurance that the reactor can be operated at power levels not in excess of one thermal megawatt without endangering the health and safety of the public. The Commission's Advisory Committee on Reactor Safeguards reported favorably on the application in its letter of November 18, 1964.

Copies of an analysis by the Division of Reactor Licensing of the safety aspects of initial-low-power operation of the Peach Bottom reactor are available for inspection at the Commission's Public Document Room, 1717 H Street NW, Washington, D. C.. Copies may be obtained by writing to the Director, Division of Reactor Licensing, U. S. Atomic Energy Commission,

(more)

Washington, D. C. 20545.

Petitions to intervene or requests for public hearing may be filed with the Secretary, U. S. Atomic Energy Commission, Washington, D. C. 20545, within 30 days after publication of notice in the Federal Register on