

FEB 4 1976

Docket No. 50-244

Rochester Gas and Electric Corporation
ATTN: Mr. Leon D. White, Jr.
Vice President
Electric and Steam Production
89 East Avenue
Rochester, New York 14604

Gentlemen:

The Commission has issued the enclosed Amendment No. 9 to Provisional Operating License No. DPR-18 for the R. E. Ginna Nuclear Power Plant. The amendment consists of changes to the Technical Specifications in response to your application dated September 22, 1975.

The amendment changes the license and Technical Specifications to provide standard provisions for possession of special nuclear, source, and byproduct materials and incorporates surveillance requirements for leakage testing of sealed sources in the Technical Specifications. Concurrently, we have terminated Byproduct Material License No. 31-13039-01.

During our review, we found that certain modifications to the proposals were necessary to attain consistency with Commission requirements. Agreement with the necessity for such modifications was obtained from your staff.

Copies of the related Safety Evaluation, the Federal Register Notice, and Amendment No. 04 terminating Byproduct Material License No. 31-13039-01 are also enclosed.

Please note that we have discontinued the use of separate identifying numbers for changes to technical specifications. Sequential amendment numbers will be continued as in the past.

Sincerely,

Original signed by:
Robert A. Purple

Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosures:					
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FEB 4 1976

Enclosures:

1. Amendment No. 9
2. Safety Evaluation
3. Federal Register Notice
4. Amendment No. 04 to Byproduct Material License No. 31-13039-01

cc w/enclosures: 1 through 3:
 Arvin E. Upton, Esquire
 LeBoeuf, Lamb, Leiby & MacRae
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 Washington, D.C. 20036

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 Webster, New York 14580

Rochester Committee for
 Scientific Information
 Robert E. Lee, Ph.D.
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 Campus Station
 Rochester, New York 14627

J. Bruce MacDonald, Deputy
 Commissioner and Counsel
 New York Department of Commerce
 99 Washington Avenue
 Albany, New York 12210

Mr. Robert N. Pinkney
 Supervisor of the Town of Ontario
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 Ontario, New York 14519

Lyons Public Library
 67 Canal Street
 Lyons, New York 14489

Rochester Public Library
 115 South Avenue
 Rochester, New York 14627

cc w/enclosures 1 through 3
 and incoming:
 Dr. William Seymour
 Staff Coordinator
 New York Department of Commerce
 New York Atomic Energy Council
 99 Washington Street
 Albany, New York 12210

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bcc: TBAbernathy, TIC
 JRBuchanan, NSIC

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DATE →	1/20/76	1/20/76	<i>2/2/76</i>	<i>2/4/76</i>		

ROCHESTER GAS AND ELECTRIC CORPORATION

DOCKET NO. 50-244

R. E. GINNA NUCLEAR POWER PLANT

AMENDMENT TO PROVISIONAL OPERATING LICENSE

Amendment No. 9
License No. DPR-18

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Rochester Gas and Electric Corporation (the licensee) dated September 22, 1975, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public;
 - E. The receipt, possession, and use of source, byproduct, and special nuclear material as authorized by this license amendment will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70, including 10 CFR Sections 30.33, 40.32, 70.23, and 70.31; and
 - F. An environmental statement or negative declaration need not be prepared in connection with the issuance of this amendment.
2. Accordingly, Provisional Operating License No. DPR-18 is hereby amended by revising Paragraphs B.(1), B.(2), B.(3), and Paragraph C.(2) and adding new Paragraphs B.(4) and B.(5) as follows:

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"B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses RG&E:

- (1) Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities", to possess, use, and operate the facility at the designated location in Wayne County, New York, in accordance with the procedures and limitations set forth in this license;
- (2) Pursuant to the Act and 10 CFR Part 70, to receive, possess, and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as amended through Supplement No. 15;
- (3) Pursuant to the Act and 10 CFR Parts 30, 40, and 70 to receive, possess, and use at any time any byproduct, source, and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- (4) Pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess, and use in amounts as required any byproduct, source, or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;
- (5) Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility."

"C. (2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised, are hereby incorporated into the license. The licensee shall operate the facility in accordance

with the Technical Specifications.

3. This license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:
Robert A. Purple

Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: FEB 4 1976

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ATTACHMENT TO LICENSE AMENDMENT NO. 9

PROVISIONAL OPERATING LICENSE NO. DPR-18

DOCKET NO. 50-244

Revise Appendix A as follows:

Remove Pages

ii
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6.9-9

Insert New Pages

ii
4.13-1
4.13-2
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4.13 Radioactive Material Source Leakage Test

Applicability

Applies to the periodic test for leakage of radioactive material sources performed by the licensee or by other persons specifically authorized by the Commission or the state.

Objective

To ascertain that any leakage from radioactive material sources is sufficiently low.

Specifications

4.13.1 Sources which contain quantities of by-product material that exceed the quantities listed in 10 CFR 30.71 Schedule B and all other sources (including alpha emitters) containing greater than 0.1 microcuries shall be leak tested as follows:

- a. Except for sealed sources that are stored and not being used, and except for startup sources, each sealed source containing radioactive material, other than Hydrogen 3, with a half-life greater than 30 days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months.

- b. Sealed sources that are stored and not being used shall be tested for leakage prior to use or transfer to another user unless they have been tested within six months prior to the date of use or transfer. Sealed sources received from a transferor shall, in the absence of a certificate from the transferor indicating that a test has been performed within six months prior to the transfer, be tested prior to use.

- c. Startup sources shall be leak tested prior to and following any repair or maintenance and before being subjected to core flux.

4.13.2 The leakage test shall be capable of detecting the presence of 0.005 microcuries of radioactive material on the test sample. If the test reveals the presence of 0.005 microcuries or more of removable contamination, it shall immediately be withdrawn from use, decontaminated, and repaired, or be disposed of in accordance with Commission regulations.

Basis

Ingestion or inhalation of source material may give rise to total body or organ irradiation. This specification assures that leakage from radioactive material sources does not exceed allowable limits. In the unlikely event that those

quantities of radioactive by-product materials of interest to this specification which are exempt from leakage testing are ingested or inhaled, they represent less than one maximum permissible body burden for total body irradiation. The limits for all other sources (including alpha emitters) are based upon 10 CFR 70.39 (c) limits for plutonium.

(c) Total radioactivity (in curies) released, by nuclide, based on representative isotopic analyses performed.

(d) Percent of Technical Specification limit.

(3) Iodine Releases

(a) Total (I-131, I-133, I-135) radioactivity (in curies) released.

(b) Total radioactivity (in curies) released, by nuclide, based on representative isotopic analyses performed.

(c) Percent of Technical Specification limit.

(4) Particulate Releases

(a) Gross radioactivity (β, γ) released (in curies) excluding background radioactivity.

(b) Gross alpha radioactivity released (in curies) excluding background radioactivity.

(c) Total radioactivity released (in curies) of nuclides with half-lives greater than eight days.

(d) Percent of Technical Specification limit.

(5) Solid Radioactive Waste

(a) Total volume (in cubic feet) of solid waste generated.

(b) Gross curie activity involved.

(c) Dates and disposition of the material if shipped offsite.

c. Other Reports

(1) Annually: Results of required leak tests performed on sources if the tests reveal the presence of 0.005 microcurie or more of removable contamination.

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 9 TO PROVISIONAL OPERATING LICENSE NO. DPR-18

ROCHESTER GAS AND ELECTRIC CORPORATION

R. E. GINNA NUCLEAR POWER PLANT

DOCKET NO. 50-244

Introduction

By letter dated September 22, 1975, Rochester Gas and Electric Corporation (the licensee) proposed changes to the Technical Specifications and an amendment to the license conditions for the receipt, possession, and use of special nuclear, source, and byproduct material at the R. E. Ginna Nuclear Power Plant. The licensee's proposal would also supersede the requirements in Byproduct Material License No. 31-13039-01. The licensee proposed the changes in response to our letter dated November 19, 1974.

Background

Our letter dated November 19, 1974, provided the licensee with a recommended license format for special nuclear, source, and byproduct material to be incorporated in License No. DPR-18. The recommended language would replace specific descriptions of special nuclear, source, and byproduct materials which appear in the license with generalized descriptions. The generalized descriptions included limits of 100 millicuries for byproduct material and 100 milligrams of source or special nuclear material. Any amounts greater than these would still be specifically described in the license. The letter also requested that the licensee submit the information indicated in Regulatory Guide 1.70.3 in support of an amendment to the R. E. Ginna Nuclear Plant license that would incorporate the new format and add sealed source leak testing requirements to the surveillance section of the Technical Specifications.

By letter dated September 22, 1975, the licensee submitted the recommended license amendment for our approval. This submittal included the information indicated in Regulatory Guide 1.70.3. This information involved descriptions of the laboratory facilities and equipment, survey and measuring instruments, health physics organization, personnel and procedures, and the byproduct, source, and special nuclear material at the facility.



Evaluation

The facility license for R. E. Ginna Nuclear Power Plant, similar to all other facility licenses, has always authorized possession of such byproducts as may be produced by operation of the facility. This includes the fission products in the spent fuel and the small fraction of fission products that escape the fuel cladding and enter the primary coolant. It also includes activation products from neutron bombardment of reactor internal structures, reactor vessel, piping, shielding, and reactor coolant. Some of this radioactivity in the primary coolant contaminates primary system components such as piping, valves, pumps, and heat exchangers. The associated source strength for the above items can be very large.

The licensee's Health Physics Program, including all the information described in Regulatory Guide 1.70.3, was evaluated by NRC to determine that occupational radiation exposures are as low as reasonably achievable. Prior to issuing the license, we found the licensee's methods for radiation protection acceptable. During the seven years of facility operation which included handling and working with these large and varied types of byproduct sources, the licensee has demonstrated that low occupational exposures, well within the limits of 10 CFR Part 20, can be achieved. As a result of our review of the information submitted with this application we continue to find the radiation protection program acceptable.

Based upon the above considerations, we have modified the proposed license amendment to delete the specific 100 millicurie and 100 milligram limits on byproduct and source materials. Such limits represent insignificant sources compared to the sources normally being handled as byproducts produced by operation of the facility and are therefore unnecessary. We discussed this modification with Rochester Gas and Electric Corporation and they concurred in the modification.

We have added a new Section 4.13, "Miscellaneous Radioactive Materials Sources", in the Technical Specifications that includes leakage limits and testing requirements for sealed sources. We have also added in Section 6.9.3 the requirement for reporting of source leakage test results.

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR §51.5(d)(4) that an environmental statement, negative declaration, or environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the change does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the change does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: FEB 4 1976

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-244

ROCHESTER GAS AND ELECTRIC CORPORATION

NOTICE OF ISSUANCE OF AMENDMENT TO PROVISIONAL
OPERATING LICENSE

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 9 to Provisional Operating License No. DPR-18 issued to Rochester Gas and Electric Corporation (the licensee) which revised certain license provisions and the Technical Specifications for operation of the R. E. Ginna Nuclear Power Plant located in Wayne County, New York. The amendment is effective as of its date of issuance.

The amendment changes the license and Technical Specifications to provide standard provisions for possession of special nuclear, source, and byproduct materials and incorporates surveillance requirements for leakage testing of sealed sources in the Technical Specifications.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.

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The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental statement, negative declaration, or environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated September 22, 1975, (2) Amendment No. 9 to License No. DPR-18, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, NW., Washington, D.C., and at the Lyons Public Library, 67 Canal Street, Lyons, New York 14489 and at the Rochester Public Library, 115 South Avenue, Rochester, New York 14627.

A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this FEB 4 1976

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:
Robert A. Purple

Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Operating Reactors

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SURNAME →	:dc	TVWambach	DAK 3/76	RAPurple	
DATE →	1/20/76	1/ /76	2/2/76	2/4/76	

MATERIALS LICENSE

Supplementary Sheet

License Number 31-13039-01

Docket or
Reference No. _____

Amendment No. 04

Rochester Gas and Electric
Corporation
89 East Avenue
Rochester, New York 14649

In accordance with letter dated September 22, 1975, License Number 31-13039-01
is amended as follows:

Item 4. is amended to read:

4. See Condition 15

Condition 15. is added:

15. This license shall expire upon issuance of an amendment to Provisional Operating
License DPE-18 covering the licensed material covered by this license and the
licensee's letter dated September 22, 1975.

Wherever the words "Atomic Energy Commission" or "Commission" appear in this
license, except where the context of their use refers to a fact or event prior
to January 19, 1975, they mean the Nuclear Regulatory Commission created by
Public Law 93-438 and Executive Order No. 11834.

Date FEB 04 1976

For the U. S. Nuclear Regulatory Commission

Original Signed by

John M. Bell Branch

by _____

Division of Materials and Fuel Cycle
Facility Licensing
Washington, D. C. 20555

PRELIMINARY DETERMINATION

NOTICING OF PROPOSED LICENSING AMENDMENT

LICENSEE: Rochester Gas & Electric Corporation (REGinna)

REQUEST FOR: License Amendment to incorporate generalized by-product, source, and special nuclear materials licenses in the Part 50 license and add sealed source surveillance Tech Spec.

REQUEST DATE: September 22, 1975

PROPOSED ACTION: () Pre-notice Recommended
 (x) Post-notice Recommended
 () Determination delayed pending completion of Safety Evaluation

BASIS FOR DECISION: Licensee is already licensed to possess and use these materials under their present licenses and is incorporating them in the Part 50 license per our request to simplify administrative procedures involved in the licensing process.

CONCURRENCES:	DATE:
1. <u>T. V. Wambach</u>	<u>10/3/75</u>
2. <u>R. A. Purple</u>	<u>10/3/75</u>
3. <u>K. R. Goller</u>	<u>KRG 10/3/75</u>
4. <u>OELD</u>	<u>10/14</u>