OCT 10 1973

Docket No. 50-244

Rochester Gas and Electric Corporation
ATTN: Mr. Edward J. Nelson
President
89 East Avenue
Rochester, New York 14604

Change No. 10
License No. DPR-18

Gentlemen:

By letter dated September 21, 1973, you submitted Proposed Change No. 11 to the Technical Specifications appended to Provisional Operating License No. DPR-18 to allow operation at reduced pressure (2000 psia vs. 2250 psia) and which would change the overtemperature ΔT setpoint and overpower ΔT setpoints to assure a corresponding reduction in operating temperature. You provided a report, "Fuel Densification - R. E. Ginna Nuclear Plant Unit 1 - Low Pressure Analysis", dated July 1973 which presents the effects of low pressure operation on the accidents and anticipated transients previously evaluated.

We have reviewed the proposed changes to the Technical Specifications and the accompanying report. The two areas requiring assessment were DNB and creep collapse. The DNB analysis was performed using the methods as described in the FSAR. The methods are equally valid at the lower pressure since the experimental data base included the lower pressure and the present safety limits as they exist in the Technical Specifications included this pressure range and are unchanged. We conclude that the DNB margins are similar to those at high pressure because the coolant temperatures are reduced sufficiently to limit the value of DNB ratio to 1.30 or greater during normal operation and anticipated transients. A reduction of the primary system pressure and temperature will reduce the clad creep rate and consequently the operation at the lower pressure for the same period as previously allowed for high pressure (7×10^5 MWD) is conservative and acceptable with respect to clad collapse. We have determined that the effects of reduced primary system pressure have been adequately evaluated for normal operation, anticipated transients, and accidents and that the reactor can be operated for the remainder of the present fuel cycle with a primary system pressure of 2000 psia.

We have discussed the proposed changes with your staff and have made some modifications based on these discussions. They consist of limiting the positive axial offset to the present value of +5% instead of the proposed +8% and in making the corresponding changes in axial offset limits to Section 3.10.2.6 which had been inadvertently omitted in your proposed changes.

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We conclude that the proposed changes, as modified, do not involve a significant hazards consideration and there is reasonable assurance that the health and safety of the public will not be endangered by operation of the reactor in the manner proposed.

Accordingly, pursuant to Section 50.59 of 10 CFR Part 50, the Technical Specifications of Provisional Operating License No. DPR-18 are changed as indicated in Attachment A. The effective date of this change is the date on which the setpoint changes are implemented but no later than October 31, 1973.

Sincerely,

Original signed by
Robert J. Schemel for

Donald J. Skovholt
Assistant Director for
Operating Reactors
Directorate of Licensing

Enclosure:
Attachment A - Change No. 10 to the Technical Specifications

cc w/enclosures:
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See next page for additional cc

OFFICE ▶			L:ORB#1	L:ORB#1	L:ORB#1	L:OR
SURNAME ▶			x-7434 TVWambach:dc	SATeets	RJSchemel	DJSkovholt
DATE ▶			10/4/73	10/4/73	10/10/73	10/10/73

OCT 10 1973

Mr. Hans L. Hamester (2 cys)
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Environmental Protection Agency
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New York, New York 10007

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SURNAME ▶						
DATE ▶						

ATTACHMENT A

CHANGE NO. 10 TO THE TECHNICAL SPECIFICATIONS

PROVISIONAL OPERATING LICENSE NO. DPR-18

ROCHESTER GAS AND ELECTRIC CORPORATION

DOCKET NO. 50-244

SECTION 2.3

1. In Section 2.3.1.2.c, change "1700 psig" to "1715 psig."

2. In Section 2.3.1.2.d, change "T^1 = 573.5°F" to "T^1 = 566.0°F";
   change "P^1 = 2235 psig" to "P^1 = 1985 psig";
   change "K_1 = 1.10" to "K_1 = 1.12";
   change "K_2 = 0.000789" to "K_2 = 0.000656";
   change "K_3 = 0.0123" to "K_3 = 0.0136";
   in "(i)" change "-15" to "-18"; and
   in "(iii)" change "-15" to "-18" and "2.5" to "2".

3. In Section 2.3.1.2.e, change "K_4 = 1.11" to "$K_4 \leq 1.09$"; and
   change " = 0.002 for $T \geq T^1$" to
   " = 0.001 for $T \geq T^1$".

4. In the basis on page 2.3-6, add the following sentence to the first paragraph.

   "The overpower and overtemperature protection setpoints include consideration of the effects of fuel densification, clad flattening, and low pressure operation on core safety limits."

SECTION 3.10.2.6

1. Change "-15 percent" to "-18 percent" in the two places it appears.

2. Change "2.5 percent" in the third line of (c) to "2 percent".

SECTION 4.3

1. In the first paragraph of the basis on page 4.3-2, delete "operating pressure + 100 psi:" from the second sentence.

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