

December 12, 1988

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Docket No. 50-261

Mr. E. E. Utley  
Senior Executive Vice President  
Power Supply and Engineering & Construction  
Carolina Power & Light Company  
Post Office Box 1551  
Raleigh, North Carolina 27602

Dear Mr. Utley:

SUBJECT: REACTOR COOLANT LOOP RESISTANCE TEMPERATURE DETECTOR SYSTEM  
H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2

Enclosed is a copy of a "Notice of Environmental Assessment and Finding of No Significant Impact" for your information. This notice relates to your amendment request dated July 26, 1988, as supplemented by letters dated August 26 and November 1, 1988, which requested changes to the Technical Specifications relating to certain reactor parameters applicable to the reactor coolant loop resistance temperature detector (RTD) and to support the elimination of the RTD bypass system.

The notice is being forwarded to the Office of the Federal Register for publication.

Sincerely,

*151*

Ronnie H. Lo, Senior Project Manager  
Project Directorate II-1<sup>2</sup>  
Division of Reactor Projects I/II  
Office of Nuclear Reactor Regulation

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EA LETTER FOR RTD

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| OFC  | :LA:PD21:DRPR:PM:PD21:DRPR:D:PD21:DRPR | : | :         | : | :         | : | : | : |
| NAME | :P. Anderson :R. Lo:jfv                | : | :         | : | :         | : | : | : |
| DATE | :12/ /88                               | : | :12/12/88 | : | :12/12/88 | : | : | : |

Mr. E. E. Utley  
Carolina Power & Light Company

H. B. Robinson 2

cc:

Mr. R. E. Jones, General Counsel  
Carolina Power & Light Company  
P. O. Box 1551  
Raleigh, North Carolina 27602

Mr. Dayne H. Brown, Chief  
Radiation Protection Branch  
Division of Facility Services  
Department of Human Resources  
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Mr. McCuen Morrell, Chairman  
Darlington County Board of Supervisors  
County Courthouse  
Darlington, South Carolina 29535

Mr. Robert P. Gruber  
Executive Director  
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Mr. R. Morgan  
General Manager  
H. B. Robinson Steam Electric Plant  
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Hartsville, South Carolina 29550

Mr. Avery Upchurch, Chairman  
Triangle J Council of Governments  
100 Park Drive  
Post Office Box 12276  
Research Triangle Park, NC 27709

UNITED STATES NUCLEAR REGULATORY COMMISSIONCAROLINA POWER & LIGHT COMPANYDOCKET NO. 50-261H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2ENVIRONMENTAL ASSESSMENT AND FINDING OFNO SIGNIFICANT IMPACT

The U. S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License No. DPR-23, issued to Carolina Power & Light Company (the licensee), for operation of the H. B. Robinson Steam Electric Plant, Unit No. 2, located in Darlington County, South Carolina.

ENVIRONMENTAL ASSESSMENTIdentification of Proposed Action:

The proposed amendment would revise the provisions in the Technical Specifications (TS) relating to certain reactor parameters applicable to the reactor coolant loop resistance temperature detector (RTD) system and to support the elimination of the RTD bypass system.

The proposed action is in accordance with the licensee's application for amendment dated July 26, 1988, as supplemented by letters dated August 26 and November 1, 1988.

The Need for the Proposed Action:

The proposed change to the TS is required to provide the licensee with the correct values of parameters applicable to the reactor coolant loop resistance temperature detector system. The proposed change would support the elimination of the RTD bypass system and reduce the occupational radiation exposure due to maintenance of the bypass system.

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Environmental Impacts of the Proposed Action:

The Commission has completed its evaluation of the proposed revision to the TS with regard to environmental impacts. The proposed revision to the TS involves correcting certain parameters as applicable to the RTD system, and the application of these corrected values would have no radiological environment impacts. These corrected values would also support the elimination of the RTD bypass system. The elimination of the bypass system would not result in any environmental impacts which exceed those evaluated in the Final Environmental Statement related to the operation of the facility and would result in savings in occupational radiation exposure associated with the maintenance of the bypass system (approximately 0.1 person-rem/year). Accordingly, the Commission concludes that this proposed action would not result in significant radiological environmental impact.

With regard to potential non-radiological impacts, the proposed change to the TS involves the use of systems located entirely within the restricted area, as defined in 10 CFR Part 20. It does not affect non-radiological plant effluents and has no other environmental impact. Therefore, the Commission concludes that there are no significant non-radiological environmental impacts associated with the proposed amendment.

Alternative to the Proposed Action:

Since the Commission concluded that there are no significant environmental effects that would result from the proposed action, any alternatives with equal or greater environmental impacts need not be evaluated.

The principal alternative would be to deny the requested amendment. This would not reduce environmental impacts of plant operation and would result in errors in instrument setpoints.

Alternative Use of Resources:

This action does not involve the use of any resources not previously considered in the Final Environmental Statement for the H. B. Robinson Steam Electric Plant, Unit No. 2, dated April 1975.

Agencies and Persons Consulted:

The NRC staff reviewed the licensee's request and did not consult other agencies or persons.

FINDING OF NO SIGNIFICANT IMPACT

The Commission has determined not to prepare an environmental impact statement for the proposed license amendment.

Based upon the foregoing environmental assessment, we conclude that the proposed action will not have a significant effect on the quality of the human environment.

For further details with respect to this action, see the application for amendment dated July 26, 1988, as supplemented on August 26, and November 1, 1988, which are available for public inspection at the Commission's Public Document Room, 2120 L Street, N.W., Washington, D.C. 20555 and at the Hartsville Memorial Library, Home and Fifth Avenues, Hartsville, South Carolina 29535.

Dated at Rockville, Maryland, this 12th day of December 1988.

FOR THE NUCLEAR REGULATORY COMMISSION

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Ronnie H. Lo, Acting Project Director  
Project Directorate II-1  
Division of Reactor Projects I/II  
Office of Nuclear Reactor Regulation

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\* See previous concurrence

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| OFC  | : LA: PD21: DRPR: PM: PD21: DRPR: OGC  | : D: PD21: DRPR :         |
| NAME | : P. Anderson : R. Lo: jfw : M. Young* | : R. Lo : jfw : M. Young* |
| DATE | : 12/12/88 : 12/12/88 : 12/5/88        | : 12/12/88 :              |

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Dated at Rockville, Maryland, this 12th day of December 1988.

FOR THE NUCLEAR REGULATORY COMMISSION

Elinor G. Adensam, Director  
Project Directorate II-1  
Division of Reactor Projects I/II  
Office of Nuclear Reactor Regulation

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| OFC  | :LA:PD21:DRPR:PM:PD21:DRPR:OGC | :D:PD21:DRPR : |
| NAME | :P. Anderson :R. Lo:jfw        | :E. Adensam :  |
| DATE | :12/1 /88 :12/1 /88 :12/5 /88  | :12/ /88 :     |