

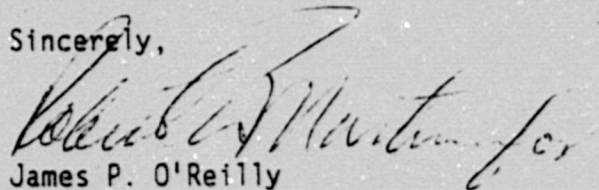


UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA ST., N.W., SUITE 3100  
ATLANTA, GEORGIA 30303

Gentlemen:

The enclosed circular is forwarded for your information. Your review of this matter and correction of any identified problems is expected before licensing of your plant. If you have questions related to this matter, please contact this office.

Sincerely,



James P. O'Reilly  
Director

Enclosures:

1. IE Circular No. 81-09
2. List of Recently Issued  
IE Circulars

Distribution for IE Circular No. 81-09

(ACTION)

July 10, 1981

Addresses

In Reference To

- |  |   |
|--|---|
| 1. Alabama Power Company<br>Attn: R. P. McDonald<br>Vice President-Nuclear Generation<br>Post Office Box 2641<br>Birmingham, AL 35291                                      | 50-348 Farley Unit 1<br>50-364 Farley Unit 2  |
| 2. Carolina Power and Light Company<br>Attn: J. A. Jones<br>Senior Executive Vice President<br>and Chief Operating Officer<br>411 Fayetteville Street<br>Raleigh, NC 27602 | 50-325 Brunswick Unit 1<br>50-324 Brunswick Unit 2<br>50-261 Robinson Unit 2                  |
| 3. Duke Power Company<br>Attn: W. O. Parker, Jr.<br>Vice President, Steam Production<br>P. O. Box 2178<br>Charlotte, NC 28242  | 50-369 McGuire Unit 1<br>50-269 Oconee Unit 1<br>50-270 Oconee Unit 2<br>50-287 Oconee Unit 3 |
| 4. Florida Power and Light Company<br>Attn: R. E. Uhrig, Vice President<br>Advanced Systems and Technology<br>P. O. Box 529100<br>Miami, FL 33152                          | 50-335 St. Lucie Unit 1<br>50-250 Turkey Point Unit 3<br>50-251 Turkey Point Unit 4           |
| 5. Florida Power Corporation<br>Attn: J. A. Hancock, Assistant<br>Vice President Nuclear Operations<br>P. O. Box 14042, Mail Stop C-4<br>St. Petersburg, FL 33733          | 50-302 Crystal River Unit 3   |



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(ACTION)

Addresses

In Reference To

- |   |  |
|---|--|
| 6. Georgia Power Company<br>Attn: J. H. Miller, Jr.<br>Executive Vice President<br>270 Peachtree Street<br>Atlanta, GA 30303              | 50-321 Hatch Unit 1<br>50-366 Hatch Unit 2   |
| 7. Tennessee Valley Authority<br>Attn: H. G. Parris<br>Manager of Power<br>500A Chestnut Street Tower II<br>Chittanooga, TN 37401         | 50-259 Browns Ferry Unit 1<br>50-260 Browns Ferry Unit 2<br>50-296 Browns Ferry Unit 3<br>50-327 Sequoyah Unit 1<br>50-328 Sequoyah Unit 2 |
| 8. Virginia Electric and Power Company<br>Attn: J. H. Ferguson<br>Executive Vice President-Power<br>P. O. Box 26666<br>Richmond, VA 23261 | 50-338 North Anna Unit 1<br>50-339 North Anna Unit 2<br>50-280 Surry Unit 1<br>50-281 Surry Unit 2   |

Distribution for IE Circular No. 81-09

(INFORMATION)

July 10, 1981

Addresses

In Reference To

- |  |   |
|--|---|
| 1. Carolina Power and Light Company<br>Attn: J. A. Jones<br>Senior Executive Vice President<br>and Chief Operating Officer<br>411 Fayetteville Street<br>Raleigh, NC 27602 | 50-400 Harris Unit 1<br>50-401 Harris Unit 2<br>50-402 Harris Unit 3<br>50-403 Harris Unit 4  |
| 2. Duke Power Company<br>Attn: L. C. Dail, Vice President<br>Design Engineering<br>P. O. Box 33189<br>Charlotte, NC 28242  | 50-491 Cherokee Unit 1<br>50-492 Cherokee Unit 2<br>50-493 Cherokee Unit 3<br>50-488 Perkins Unit 1<br>50-489 Perkins Unit 2<br>50-490 Perkins Unit 3 |
| 3. Duke Power Company<br>Attn: W. O. Parker, Jr.<br>Vice President, Steam Production<br>P. O. Box 2178<br>Charlotte, NC 28242  | 50-370 McGuire Unit 2<br>50-413 Catawba Unit 1<br>50-414 Catawba Unit 2   |
| 4. Florida Power and Light Company<br>Attn: R. E. Uhrig, Vice President<br>Advanced Systems and Technology<br>P. O. Box 529100<br>Miami, FL 33152                          | 50-389 St. Lucie Unit 2   |
| 5. Georgia Power Company<br>Attn: J. H. Miller, Jr.<br>Executive Vice President<br>270 Peachtree Street<br>Atlanta, GA 30303   | 50-424 Vogtle Unit 1<br>50-425 Vogtle Unit 2  |



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6. Mississippi Power and Light Company  
Attn: N. L. Stampley  
Vice President of Production  
P. O. Box 1640  
Jackson, MS 39205  
50-416 Grand Gulf Unit 1  
50-417 Grand Gulf Unit 2
7. South Carolina Electric and Gas Company  
Attn: T. C. Nichols, Jr., Vice President  
Power Production and System  
Operations  
P. O. Box 764  
Columbia, SC 29218  
50-395 Summer Unit 1
11. Tennessee Valley Authority  
Attn: H. G. Parris  
Manager of Power  
500A Chestnut Street Tower II  
Chattanooga, TN 37401  
50-438 Bellefonte Unit 1  
50-439 Bellefonte Unit 2  
50-518 Hartsville Unit 1  
50-519 Hartsville Unit 2  
50-520 Hartsville Unit 3  
50-521 Hartsville Unit 4  
50-553 Phipps Bend Unit 1  
50-554 Phipps Bend Unit 2  
50-390 Watts Bar Unit 1  
50-391 Watts Bar Unit 2  
50-566 Yellow Creek Unit 1  
50-567 Yellow Creek Unit 2
12. Virginia Electric and Power Company  
Attn: J. H. Ferguson  
Executive Vice President-Power  
P. O. Box 26666  
Richmond, VA 23261  
50-404 North Anna Unit 3

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13. Institute of Nuclear Power Operation  
Attn: R. W. Pack  
Lakeside Complex  
1820 Waterplace  
Atlanta, GA 30339
  
14. Southern Company Services, Inc.  
ATTN: O. Batum, Manager  
Nuclear Safety & Licensing  
Department  
P. O. Box 2625  
Birmingham, AL 35202
  
15. Department of Energy  
Clinch River Breeder Reactor  
Plant Project Office  
Attn: Chief, Quality Improvement  
P. O. Box U  
Oak Ridge, TN 37830
  
16. EDS, Nuclear, Inc.  
Attn: E. H. Verdery  
330 Technology Park/Atlanta  
Norcross, GA 30092



RECENTLY ISSUED  
IE CIRCULARS

Circular No.	Subject	Date of Issue	Issued to
81-10	Steam Voiding in the Reactor Coolant System During Decay Heat Removal Cooldown	7/2/81	All power reactor facilities with an OL or CP
81-08	Foundation Materials	5/29/81	All power reactor facilities with an OL or CP
81-07	Control of Radioactively Contaminated Material	5/14/81	All power reactor facilities with an OL or CP
81-06	Potential Deficiency Affecting Certain Foxboro 20 to 50 Milliamper Transmitters	4/14/81	All power reactor facilities with an OL or CP
81-05	Self-Aligning Rod End Bushings for Pipe Supports	3/31/81	All power reactor facilities with an OL or CP
81-04	The Role of Shift Technical Advisors and Importance of Reporting Operational Events	4/30/81	All power reactor facilities with an OL or near-term OL
81-03	Inoperable Seismic Monitoring Instrumentation	3/2/81	All power reactor facilities with an OL or CP
81-02	Performance of NRC-Licensed Individuals While on Duty	2/9/81	All power reactor facilities (research & test) with an OL or CP
81-01	Design Problems Involving Indicating Pushbutton Switches Manufactured by Honeywell Incorporated	1/23/81	All power reactor facilities with an OL or CP
80-25	Case Histories of Radiography Events	12/5/80	All radiography licensees

OL = Operating Licenses  
CP = Construction Permit

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT  
WASHINGTON, D.C. 20555

July 10, 1981

IE Circular No. 81-09: CONTAINMENT EFFLUENT WATER THAT BYPASSES RADIOACTIVITY  
MONITOR

Description of Circumstances:

At Indian Point Units 2 and 3 and at H. B. Robinson Unit 2, licensee reviews of service water systems have identified unmonitored effluent paths from containment. Although containment cooler water effluent is monitored, containment cooler fan motor cooling water bypasses the monitors by joining the containment cooler water effluent downstream of the radiation monitoring equipment. This represents a potential unmonitored release path if the containment is at design pressure due to a design basis accident (DBA) and if leaks are present in the fan motor cooler system. Similar designs may exist at other plants. Appropriate monitoring of direct discharges (from containment to the environment following a DBA) having the potential to exceed the limits specified in 10 CFR Part 20 is required.

Recommended Actions:

1. All water system effluents that are not automatically isolated by a high-containment-pressure containment isolation signal and that flow directly to the environment from containment should be reviewed to determine whether or not a pathway exists for "significant" unmonitored discharge. A "significant" discharge, for purposes of this circular, is a discharge where projected concentrations in unrestricted areas are likely to exceed the concentrations listed in 10 CFR Part 20, Appendix B, Table II, column 2, with the containment at design pressure due to a design basis accident and with maximum credible leakage, such as a single completely severed cooler tube, assumed to be present in the water system inside containment. You may take credit for design pressure in the water system being higher than containment design pressure only for cases where neither single failures, nor operation in degraded modes as permitted by Technical Specifications under a limiting condition of operation (LCO), are likely to result in operation of the water system at water pressures lower than the containment design pressure.
2. All water system effluents that are not automatically isolated by a high-containment-pressure containment isolation signal and that flow directly to the environment from containment should be reviewed to determine whether or not any "significant" radioactive discharge can be isolated once it is detected. The review should include evaluation of the capability of the system to be isolated without interruption of any safety-related functions. Isolation of the system's inlet as well as its discharge may be required



to prevent radioactive discharge through the inlet piping to the inlet piping of a parallel system and/or to the environment.

3. Corrective actions to install detection and isolation methods that provide performance consistent with Technical Specification requirements should be initiated for any "significant" unmonitored and/or unisolable discharge pathways.

Although no written response to this circular is requested, a report and corrective actions may be required by applicable Technical Specifications in the event an unmonitored and/or unisolable effluent pathway is identified. If you desire additional information regarding this matter, please contact the appropriate IE Regional Office.

Attachment:  
Recently Issued IE Circulars