



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
- REGION IV  
81, RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TEXAS 76011

July 10, 1981

Gentlemen:

The enclosed IE Circular is forwarded for your action. No written response to this IE Circular is required. If you have any questions related to this matter please contact this office.

Sincerely,

*Karl V. Seyfrit*  
Karl V. Seyfrit  
Director

Enclosures:

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

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IE CIRCULAR 81-09

Licensee

Arkansas Power and Light Company  
Little Rock, Arkansas

Nebraska Public Power District  
Columbus, Nebraska

Omaha Public Power District  
Omaha, Nebraska

Public Service Company of Colorado  
Denver, Colorado

Gulf States Utilities  
Beaumont, Texas

Houston Lighting & Power Company  
Houston, Texas

Kansas Gas & Electric Company  
Wichita, Kansas

Louisiana Power & Light Company  
New Orleans, Louisiana

Texas Utilities Generating Company  
Dallas, Texas

Facility/Docket Number

Arkansas Nuclear One, Unit 1 & 2  
50-313; 50-368

Cooper Nuclear Station  
50-298

Fort Calhoun Station  
50-285

Fort St. Vrain Generating Station  
50-267

River Bend  
50-458; 50-459

South Texas Project  
50-498; 50-499

Wolf Creek  
STN 50-482

Waterford-3  
50-382

Comanche Peak Steam Electric Station  
50-445; 50-446



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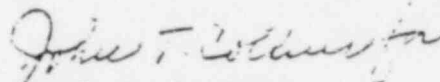
UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
811 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TEXAS 76011

July 10, 1981

Gentlemen:

The enclosed IE 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 any questions related to this matter please contact this office.

Sincerely,

  
Karl V. Seyfrit  
Director

Enclosures:

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

SSIN No.: 6830  
Access No.:  
810330373  
IEC 81-09

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

IE Circular No. 81-09  
July 10, 1981  
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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.

IE Circular No. 81-09  
July 10, 1981

RECENTLY ISSUED  
IE CIRCULARS

Circular No.	Subject	Date Issued	Issued To
81-03	Inoperable Seismic Monitoring Instrumentation	3/2/81	All power reactor facilities (research and test) with an Operating License (OL) or Construction Permit (CP)
81-05	Self-Aligning Rod End Bushings for Pipe Supports	3/31/81	All power reactor facilities with an Operating License (OL) or Construction Permit (CP)
81-06	Potential Deficiency Affecting Certain Foxboro 10 to 50 Milliampere Transmitters	4/14/81	All power reactor facilities with an Operating License (OL) or Construction Permit (CP)
81-04	The Role of Shift Technical Advisors and Importance of Licensee Event Reports	4/30/81	All power reactor facilities with an Operating License (OL) or near-term Operating License (OL)
81-07	Control of Radioactively Contaminated Material	5/14/81	All power reactor facilities with an Operating License (OL) or Construction Permit (CP)
81-08	Foundation Materials	5/29/81	All power reactor facilities with an Operating License (OL) or Construction Permit (CP)
81-10	Steam Voiding in the Reactor Coolant System during Decay Heat Removal Cooldown	7/2/81	All power reactor facilities with an Operating License (OL) or Construction Permit (CP)

Enclosure