



Westinghouse Owners Group

Domestic Utilities

Alabama Power
American Electric Power
Carolina Power & Light
Commonwealth Edison
Consolidated Edison
Duke Power
Duke Power

Georgia Power
Florida Power & Light
Houston Lighting & Power
New York Power Authority
Northeast Utilities
Northern States Power
Pacific Gas & Electric

Portland General Electric
Public Service Electric & Gas
Rochester Gas & Electric
South Carolina Electric & Gas
Tennessee Valley Authority
TU Electric

Union Electric
Virginia Power
Wisconsin Electric Power
Wisconsin Public Service
Wolf Creek Nuclear
Yankee Atomic Electric

International Utilities

Belgian Utilities
Kansai Electric Power
Korea Electric Power
Nuclear Electric plc
Nuklearna Elektrom
Spanish Utilities
Swedish State Power Board
Taiwan Power

OG-93-103

December 6, 1993

Mr. Ashok C. Thadani
Director
Division of Systems Safety and Analysis
Office of Nuclear Reactor Regulations
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Westinghouse Owners Group
Review of Report: WCAP-13864 [Non-proprietary] Entitled "Rod Control System Evaluation Program"

- Reference: 1) L.A. Walsh to A.C. Thadani, Transmittal of Report: WCAP-13864 [Non-proprietary] Entitled "Rod Control System Evaluation Program", OG-93-83 dated October 5, 1993.
- 2) A.C. Thadani to L.A. Walsh, Review of Report: WCAP-13864 [Non-proprietary] Entitled "Rod Control System Evaluation Program", dated November 20, 1993.
- 3) Telephone call between M. Chatterton, USNRC and A.P. Drake, Acting Project Manager, Westinghouse Owners Group on December 1, 1993 at approximately 2:10 PM EDT.

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Dear Mr. Thadani:

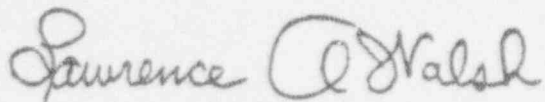
Reference 1 (attached) transmitted "information" copies of WCAP-13864 [Non-proprietary] Entitled "Rod Control System Evaluation Program" to the NRC. In this transmittal we noted the WOG was not requesting a formal NRC review and if the NRC decided a formal review was required the WOG must concur prior to commencement of the NRC review. Failure to obtain the WOG concurrence will result in the WOG challenging any and all review fees associated with this report.

On November 20, 1993 you sent me a letter, (reference 2, attached) stating the need for the NRC to review this report. While the letter did not contain an estimate of the cost associated with this review, we did obtain verbal estimates from Margaret Chatterton on December 1, 1993 (reference 3). Based on this conversation, we understand the review of this report will cost approximately \$40,000.00.

YCOI
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The Westinghouse Owners Group agrees with your assessment of the need for an NRC review of this report and will accept review fees not to exceed the estimated \$40,000.00.

Very truly yours,

A handwritten signature in cursive script that reads "Lawrence A. Walsh". The signature is written in dark ink on a light background.

Lawrence A. Walsh, Chairman
Westinghouse Owners Group

attachments

cc: William T. Russell, USNRC
Westinghouse Owners Group Steering Committee
Westinghouse Owners Group Primary Representatives
Westinghouse Owners Group Systems and Equipment Engineering Subcommittee
C.K. McCoy, Georgia Power
J.P. O'Hanlon, Virginia Power
N.J. Liparulo, W
K.J. Voytell, W



REFERENCE 1

Westinghouse Owners Group

Domestic Utilities

Alabama Power
American Electric Power
Carolina Power & Light
Commonwealth Edison
Consolidated Edison
Duquesne Light
Duke Power

Georgia Power
Florida Power & Light
Houston Lighting & Power
New York Power Authority
Northeast Utilities
Northern States Power
Pacific Gas & Electric

Portland General Electric
Public Service Electric & Gas
Rochester Gas & Electric
South Carolina Electric & Gas
Tennessee Valley Authority
TU Electric

Union Electric
Virginia Power
Wisconsin Electric Power
Wisconsin Public Service
Wolf Creek Nuclear
Yankee Atomic Electric

International Utilities

Belgian Utilities
Kansai Electric Power
Korea Electric Power
Nuclear Electric plc
Nuklearna Elektrom
Spanish Utilities
Swedish State Power Board
Taiwan Power

OG-93-86

October 5, 1993

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Attention: Mr. Ashok C. Thadani, Director
Division of Systems Technology
Office of Nuclear Reactor Research

Subject: Westinghouse Owners Group
Transmittal of Report: WCAP-13864 [Non-Proprietary] Entitled "Rod Control System Evaluation Program"

References: 1) NRC Generic Letter 93-04, "Rod Control System Failure and Withdrawal of Rod Control Cluster Assemblies, 10 CFR 50.54(f)," issued June 21, 1993.

Dear Mr. Thadani:

This letter transmits five (5) copies of WCAP-13864, (Non-Proprietary) of "Rod Control System Evaluation Program", dated September 24, 1993.

Also enclosed is:

1. One (1) copy of the Copyright Notice.

This report provides the Westinghouse Owners Group technical documentation and results for the rod control system testing program sponsored by the WOG in support of licensee responses to NRC Generic Letter 93-04 (referenced above).

This report is being provided for information and any internal review you deem necessary for your use in reviewing the Generic Letter responses submitted by Westinghouse licensees. The Westinghouse Owners Group is not requesting a formal review and approval for which review fees would be charged. Should you or any other branch of the Nuclear Regulatory Commission determine that a formal review should be performed, the Westinghouse Owners Group chairman must be contacted for concurrence. Failure to receive concurrence from the Westinghouse Owners Group chairman prior to the initiation of a review will result in a challenge by the Westinghouse Owners Group of any and all review fees associated with this document.

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Correspondence with respect to the copyrighted aspects of this WCAP should be addressed to
Mr. N.J. Liparulo, Manager, Nuclear Safety and Regulatory Activities, Westinghouse Electric Corporation,
P.O. Box 355, Pittsburgh, PA 15230-0355.

Very truly yours,

A handwritten signature in cursive script that reads "Lawrence A. Walsh". The signature is written in dark ink and is positioned above the printed name.

Lawrence A. Walsh, Chairman
Westinghouse Owners Group

LAW/dc

enclosures

cc: Steering Committee (1L)
Westinghouse Owners Group Primary Representatives (1L)
Systems & Equipment Engineering Subcommittee Representatives (1L)
William T. Russell, NRC (1L)
C.K. McCoy, Georgia Power (1L)
J.P. O'Hanlon, Virginia Power (1L)
N.J. Liparulo, W (1L)
K.J. Voytell, W (1L)

REFERENCE 2



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20585-0001

November 20, 1993

Mr. Lawrence Walsh, Chairman
Westinghouse Owners Group
c/o Seabrook Station
P.O. Box 300
Seabrook, New Hampshire 03874

SUBJECT: Review of Report: WCAP-13864 [Non-Proprietary] Entitled "Rod Control System Evaluation Program"

Dear Mr. Walsh:

The purpose of this letter is to acknowledge receipt of your letter of October 5, 1993, transmitting WCAP-13864, "Rod Control System Evaluation Program," dated September 24, 1993, and to inform you that a formal review by the Nuclear Regulatory Commission (NRC) will be necessary. We will report our results in an Safety Evaluation Report and you will be charged fees for the review of this document.

On June 21, 1993, the NRC issued Generic Letter (GL) 93-04, "Rod Control System Failure and Withdrawal of Rod Control Cluster Assemblies, 10 CFR 50.54(f)." It requires that each addressee provide an assessment of whether or not the licensing basis for each facility is still satisfied with regard to the requirements for system response to a single failure in the Rod Control System (General Design Criterion (GDC) 25 or equivalent) in light of the Salem event. The Westinghouse Owners Group (WOG) undertook a program to support the licensees' responses to the Generic Letter.

WCAP-13864 provides the WOG technical documentation and results of the rod control system testing program sponsored by the WOG. In addition, the WCAP provides technical documentation of the results of the rod control survey and failure assessment of the rod control system logic cabinet current orders. The program is referred to by nearly all licensees in their responses to GL 93-04.

The conclusions of the WOG program were presented to the NRC in a meeting on September 13, 1993. The Owners Group conclusion of the overall WOG program was that GDC 25 continues to be met. The WOG however, recommended two options to enhance reliability. Option A consists of new current order surveillance and current order timing changes. Option B consists of the new current order surveillance and new safety analyses.

As documented in the meeting minutes the staff stated that: 1) the failure rate data and system data provided by the WOG do not demonstrate compliance with GDC 25, 2) the reliability enhancement options are a reasonable approach to resolution, and 3) any licensee stating that they meet GDC 25 without adopting one of the enhancement options will need to provide substantial

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Mr. Lawrence Walsh

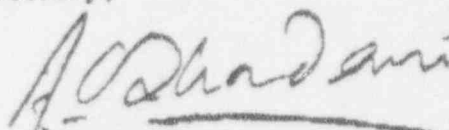
- 2 -

November 20, 1993

justification. In addition to describing the WOG Program and the results of the program, WCAP 13864 describes the new current order surveillance. On this basis our review of this report is necessary.

We intend to initiate our review by November 29, 1993, and we expect to be completed around the end of the first quarter of 1994.

Sincerely,



Ashok C. Thadani, Director
Division of Systems Safety and Analysis
Office of Nuclear Reactor Regulation

cc: R. Newton