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D. L. ASWELL
Vice President Power Production

August 10, 1981

Q-3-A35.07.34
Q-3-A35.02.01
W3K81-0285

Mr. K. V. Seyfrit, Director, Region IV
U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76012

SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Interim Report of Significant Construction Deficiency No. 34
"Buffalo Forge HVAC Fan Shrouds; Possible Inadequate Design
for Shrouds to Serve as Fan Blade Missile Barriers"

Reference: Telcon - L. L. Bass (LP&L) to R. C. Stewart (NRC) on July 8, 1981

Dear Mr. Seyfrit:

In accordance with the requirements of 10CFR50.55(e), we are hereby providing two copies of the Interim Report of Significant Construction Deficiency No. 34, "Buffalo Forge HVAC Fan Shrouds; Possible Inadequate Design for Shrouds to Serve as Fan Blade Missile Barriers."

If you have any questions, please advise.

Very truly yours,

D. L. Aswell

DLA/LLB/grf

Attachment

- cc: 1) Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
(with 15 copies of report)
- 2) Director
Office of Management
Information and Program Control
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
(with 1 copy of report)



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LOUISIANA POWER & LIGHT COMPANY

WATERFORD SES UNIT NO. 3

Interim Report of
Significant Construction Deficiency No. 34

"BUFFALO FORGE HVAC FAN SHROUDS"

Reviewed by S. P. Padalino 7/30/81
J D Padalino - Project Engineer Date

Reviewed by H Parikh 7/29/81
H Parikh - Job Engineer Date

Reviewed by J Hart 7/29/81
J Hart - Project Licensing Engineer Date

Reviewed by A. Beninati Jr. / R. L. Hymes 7/28/81
R L Hymes - Project Quality Assurance Engineer Date

INTERIM REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 34
"BUFFALO FORGE HVAC FAN SHROUDS; POSSIBLE INADEQUATE DESIGN FOR SHROUDS
TO SERVE AS FAN BLADE MISSILE BARRIERS"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes a deficiency in the design of the HVAC fan shrouds supplied by Buffalo Forge. This problem is considered reportable under the requirements of 10CFR50.55(e). This problem has been identified to the Nuclear Regulatory Commission by Buffalo Forge Company under 10CFR21.

DESCRIPTION OF PROBLEM

On June 11, 1981, Buffalo Forge Company notified Ebasco Services, Inc., that pursuant to 10CFR21, the Nuclear Regulatory Commission had been notified of a deficiency in the thicknesses of the fan shrouds supplied to Waterford 3.

New methods of calculation indicate that thicker fan shrouds are required. The fan shrouds as supplied on some of the fans would not contain a thrown fan blade. This condition, if left uncorrected, could jeopardize the functional operability of other nuclear safety-related equipment in the vicinity.

At Waterford 3, there are eight (8) types of fan shrouds manufactured by Buffalo Forge that did not satisfy design requirements. The Buffalo Forge identification numbers and corresponding tag numbers affected are:

<u>Tag Number</u>	<u>Buffalo Forge Co. Identification Number</u>
AH-13	76J6052-53
AH-30	76J6075-76
E22	76J6570-71
S6	76J6572-73
E20	76J6574-75
E48	76J6582
E16	76J6585-88
E17	76J6643-44

Seventeen (17) shrouds that fall into this group of inadequately designed shrouds have been installed. Of this group, six (6) are safety-related/seismic.

SAFETY IMPLICATIONS

If a fan blade penetrates its shroud and becomes a missile, other safety-related equipment in the area could be damaged by this missile.

This missile damage could lead to loss or degradation of the affected safety-related equipment. Thus, the equipment may be unable to carry out its required safety function.

Therefore, the inadequate missile barrier design of the shrouds would adversely affect the safety of the plant if left uncorrected.

CORRECTIVE ACTION

The Buffalo Forge Company is proceeding with the drafting of new drawings outlining field modifications required for the fans in question. Drawings are expected to be mailed to Ebasco no later than August 7, 1981.

Corrective action will be completed and a Final Report submitted on or before April 30, 1982.