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March 23, 1984

83-12 #2

Mr J G Keppler, Regional Administrator
US Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

MIDLAND ENERGY CENTER PROJECT
DOCKET NOS 50-329 AND 50-330
ITT GRINNELL MECHANICAL SNUBBER ASSEMBLIES
FILE: 0.4.9.84 SERIAL: 28048

Reference: J W Cook letter to J G Keppler, Same Subject, Serial 26652,
dated January 6, 1984

This letter, as was the referenced letter, is an interim report of a potential
10CFR50.55(e) condition involving interference problems associated with ITT
Grinnell mechanical snubber assemblies.

The attachment to this letter describes the concern and summarizes the
investigation and corrective action taking place.

Another report, either interim or final, will be sent on or before August 10,
1984.

James W. Cook

JWC/AHB/lr

Attachment: (1) MCAR-76, Interim Report 2, dated March 5, 1984

CC: Document Control Desk, NRC
Washington, DC

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Midland Nuclear Plant

DHood, USNRC Office of NRR

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Bechtel Associates Professional Corporation

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SUBJECT: MCAR 76

ITT Grinnell Figures 306 and 307 Mechanical Snubber Attachment
Interference

INTERIM REPORT 2

DATE: March 5, 1984

PROJECT: Consumers Power Company
Midland Plant Units 1 and 2
Bechtel Job 7220

REFERENCE: ITT Grinnell letter to Bechtel, 11/16/82 (Com 095537)

Introduction

This report addresses ITT Grinnell Figures 306 and 307 mechanical snubbers supplied to the Midland project with potential interference problems. Interference may occur at the pipe clamp and/or between the shock arrestor pivot mount and rear bracket.

Description of Concern

ITT Grinnell Figures 306 and 307 mechanical snubbers require an included angle cone of action to the pipe clamp axis to accommodate anticipated piping movements relative to the supporting structure.

Grinnell has informed Bechtel that for Figures 306 and 307 snubbers manufactured before April 1980, the included angle of the cone of action may be less than the design angle.

Summary of Investigation and Historical Background

As discussed in the reference, ITT Grinnell has investigated the subject concern and determined the following.

1. All mechanical snubbers produced and shipped by ITT Grinnell before October 1978 should be reviewed to assure sufficient clearance.
2. All mechanical snubbers produced and shipped by ITT Grinnell after April 1980 are acceptable based on design changes incorporated at that time.

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Interim Report 2

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3. Mechanical snubbers produced and shipped by ITT Grinnell between October 1973 and April 1980 may exhibit a reduction of the included angle cone of action, particularly:
 - a. All mechanical snubbers that incorporate welded rear brackets; and
 - b. Size 3 and 35 pipe clamps

Analysis of Safety Implication

The potential interference(s) could restrict the pipe movement more than that considered by analysis. This could lead to piping stresses beyond Code limits and possible impairment of system safety function.

Probable Cause

The probable cause of the interference(s) has been traced to two sources:

1. Oversize shop weld(s) between the lugs of the ITT Grinnell rear bracket
2. Excessive edge distance on the ITT Grinnell-manufactured pipe clamps

Project engineering shall obtain from ITT Grinnell an explanation of the root cause and a plan for corrective action to preclude recurrence of the subject deficiency before the next report is issued.

Corrective Action

Bechtel engineering has initiated a nonconformance report (NCR) to identify and track this deficiency. All mechanical snubbers (including ITT Grinnell Figures 306 and 307 snubbers) with potential interference problems furnished to the Midland plant will be inspected during the Construction Completion Program (CCP) for pipe supports. Project engineering has provided appropriate inspection criteria for this inspection. Nonconforming snubbers found during inspection will be documented on the NCR, and appropriate corrective action will be taken.

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MCAR 76
Interim Report 2

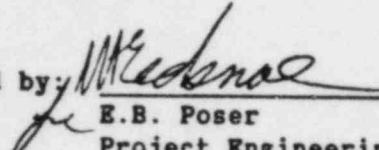
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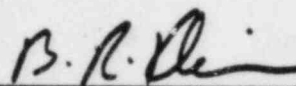
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Reportability

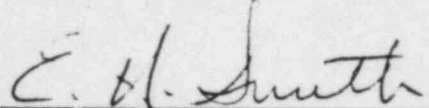
Based on safety implications, this deficiency was reported to the NRC as potentially reportable in accordance with Title 10 of the Code of Federal Regulations, Part 50.55(e) on December 9, 1983.

Submitted by: 

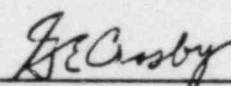
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