

VICE PRESIDENT OXXXXXX

Nuclear

August 4, 1980

Mr. W.C. Seidle, Chief
Reactor Construction and
Engineering Support Branch
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive
Suite 1000
Arlington, Texas 76011

KMLNRC-017

Re: NRC Docket No. STN 50-482 Subj: 50.55(e) Report Bergen Patterson Strut Assembly

Dear Mr. Seidle:

On July 3, 1980, Mr. W.G. Eales made a telephone report to Messrs. W.A. Crossman and W.G. Hubacek regarding an interference problem between pipe clamps and shock arrestors furnished to Wolf Creek by Bergen Patterson.

Attached is a final report submitted pursuant to regulation 10CFR50.55(e) regarding this deficiency.

Yours very truly,

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GLK:bb Attach

CC: Director Inspection and
Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555
Attach 15 Cys

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10CFR50.55(e) FINAL REPORT

ON

INTERFERENCE PROBLEM BETWEEN
PIPE CLAMPS AND MECHANICAL
SHOCK ARRESTORS

FOR

WOLF CREEK GENERATING STATION, UNIT NO 1

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### 1.0 INTRODUCTION

On June 20, 1980 Bergen-Patterson (BP) submitted a 10CFR21 report to Mr Boyce H Grier, Director of Region I. In this report BP described an interference problem which exists between pipe clamps and shock arrestors furnished by them to several nuclear projects including Wolf Creek. BP subsequently forwarded the information to Bechtel. Bechtel forwarded the information on to KG&E and on July 3, 1980 KG&E confirmed to NRC Region IV that 21 clamp/shock arrestor assemblies to be delivered to Wolf Creek were affected.

### 2.0 DESCRIPTION OF DEFICIENCY

The deficiency is described in BP's report to the NRC dated June 20, 1980. (Also see attached sketch #1)

### 3.0 IDENTIFICATION OF FIRM SUPPLYING CLAMPS AND SHOCK ARRESTORS

The clamps and shock arrestors were supplied by Bergen-Patterson under Bechtel issued purchase order 10466M-218A.

### 4.0 SAFETY IMPLICATIONS

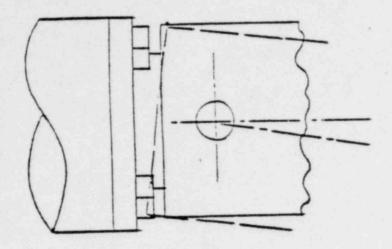
A detailed analysis of all 21 snubbers would be necessary to quantify pipe movement restrictions and resulting pipe stress. However, it appears that the interferences identified by Bergen-Patterson could inhibit the performance and function of the snubbers which could result in overstressing of the attached pipe.

### 5.0 CORRECTIVE ACTION

Correction of the interference will be made by rotating the snubbers (end for end). See attached sketch #2. This work is expected to be complete by December 1, 1980.



# SKetch #1

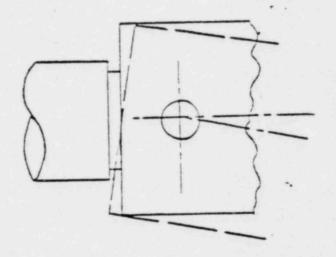


### FIGURE 1

6° off-axis rotation of clamp creates interference between bolt head and clamp.

### FIGURE 2

180° rotation (end-for-end) of PSCo. Shock Arrestor eliminates interference.



### FIGURE 3

Modification of clamp as shown eliminates interference without reduction of rated load.

Pipe Size 3/4" to 6" cut 1/4" x 45° Pipe Size 8" to 10" cut 1/2" x 45°

## REPAIR CRITERIA/PROCEDURE TO CORRECT BERGEN PATERSON SNUBBERS INTERFERENCE

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The following steps should be implemented for all sifected snubbers:

- 1. Disessemble the clamps from the snubber. Remove the load pin.
- 2. Remove the rear bracket by pushing out the load pin.
- 3. Reinstall the pipe clamp and rear bracket at the opposite and from which it was removed.
- 4. Rotate the pipe clamp by hand. At least 6° rotation should be evident. This is necessary due to the variance of pipe clamp lengths.

