THE	BA	BC	OCK	&	WIL	COX	COMPANY
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31-1/125-01;5/303-01;7,200-1 1119-01-11/132-01:14/344-01

POWER	GENERATION GROUP	SITE INSTRUCTION NO.
To	DISTRIBUTION	DISTRIBUTION 3,4,5,7,8,9,11,14
From	G. T. FAIRBURN, SERVICE MANAGER	APPROVED & S.A. A. P. C. Sons sons
Cust.	DUKE POWER COMPANY, METROPOLITAN EDISON C FLORIDA POWER CORP., AP&L, SMUD & TECO	
Subj.	OPERATING INSTRUCTIONS FOR SYMPTOMS OF A POWER OPERATED RELIEF VALVE	STUCK OPEN Date MAY 7, 1979
	This letter to cover one customer and one subject only.	

DISTRIBUTION

CD Russell

RC Luken JT Janis GT Fairburn

The attached information has been reviewed and approved for transmittal to your customer. Please forward this information to your customer as soon as possible.

GTF/hh Attachment

cc: GJ Brazill

JH Taylor

CE Mahaney

EJ Domaleski

DC Winterich

RL Boyer

RE Ham

RE Wascher

WS Delicate

KR Ellison

JR Bohart

JA Lind

RL Pittmar

GC Schieck

DE Lee

Record Ctr.

S. D. Fanhum

REVIEWED FOR ACCURACY

THE SERVICE

DATE: . 7 7

1. INTRODUCTION

Item 3 of IE Bulletin No. 79-05 requests utilities with B&W supplied NSS systems to review the actions required for coping with transients. This IE bulletin was prompted by the nuclear incident at Three Mile Island. During this incident, the power operated relief valve (PORV) on the pressurizer opened and failed to reclose. Considerable time passed before the operator determined that the PORV had failed open and took corrective action to isolate the valve. Operating and emergency procedures should be reviewed and revised as necessary to minimize the potential for a similar event. To support this effort, information relative to symptoms of a stuck open PORV is provided below for your consideration.

2. DESIGN FUNCTION OF THE PORV

Overpressure protection of the RCS is provided by two code safety valves on the pressurizer. The ASME code requires that these valves cannot be isolated. Prudent operation of these valves dictates minimizing the number of times the code safety valves will be opened. This is accomplished by providing a PORV with a lower opening setpoint.

3. SYMPTOMS OF A STUCK OPEN PORV (see note (1) below)

- A. RC pressure below the reset pressure of the PORV and decreasing (primary symptom) with
 - a. Pressurizer level increasing or indicated high (opposite trend may be possible under certain conditions).
 - b. Primary coolant temperature approaching saturation.
- B. Increase in the RC Drain tank level, pressure, and/or temperature.
- C. Sustained high (T/C) temperature downstream of the PORV.
- NOTE: (1) The PORV position indicator lights do not provide direct status of the valve position. The light indicates the position of the solenoid operator on the Folky. Therefore, the indicator lights might not indicate a stuck open PORV.

	KAND I (NSS-5) G. FAIRBURN
5/303 REV.01	OI FOR SYMPTOMS OF A STURK UPEN POLER PART MAY 7, 1919
	PLEASE REPLY TO THE ATTACHED S.I.P. AND FORWARD RESPONSE TO NUCLEAR SERVICE TECHNICAL SUPPORT, NSSE
NOTE:	SITE INSTRUCTION # 5/303 REV. O WAS NEVER SENT OUT DUE TO ERPORS IN WORDING. REV. OI IS A CORRECTION OF THIS ERPOR.
IATOR-DO NOT WRITE BELOW "HIS LI	NE REPLY TO SIGNED Med 3xettigh?
NATOR-DO NOT WRITE BELOW THIS LIE	DP Miller of Mit Ed was
Sent	