

THE BABCOCK & WILCOX COMPANY  
POWER GENERATION GROUP

3,4,9/57; 5,6/130; 7/193;  
SITE INSTRUCTION NO. 8/65; 11/73; 12,13/12; 14/65

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From	G. N. ELLIOTT, NUCLEAR SERVICES (3505)	ORIGINATOR SIGNATURE <i>G.N. Elliott</i>
Cust.	ALL 177 FA PLANTS	APPROVED <i>[Signature]</i> --BDS 663- <i>20</i>
Subj.	ANALYSIS & CLASSIFICATION OF LOSS OF FEEDWATER SITUATIONS	Date AUGUST 10, 1977

File No. NSS-3,4,5,6,7,8,9,  
or Ref. 11,12, & 13 & 14  
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During HFT and mini-HFT, instances of loss of feedwater to the main feedwater nozzles will occur. These instances are hard to classify into the existing categories of allowable operating transient cycles in the reactor coolant system functional specification.

The present categories are as follows. They are reserved for actual reactor trip or dry steam generator incidents, and are considered much more severe than the simple loss of feedwater situations being experienced during functional testing.

<u>TRANSIENT TYPE (NO.)</u>	<u>TRANSIENT TITLE</u>	<u>ALLOWABLE DESIGN CYCLES</u>
8C	Reactor Trip Due to Loss of Feedwater Flow	88
17A	Loss of Feedwater Flow to One Steam Generator	20
—	Emergency Conditions	25

Based on the above information, B&W will investigate the establishment of a new and more appropriate category to be entitled "Interruption of Feedwater to the Main Nozzles".

In order to ascertain the number of transient cycles allowable under this new category, it is requested that the following information be made available to the Stress Analysis Group at Mount Vernon on as many of the loss of feedwater flow to the main nozzles incidents as practical:

- Initial Steam Pressure (saturated steam temperature)
- Initial Feedwater Flowrate
- Initial Feedwater Temperature

8002 100 058 A

AUGUST 10, 1977

Estimate of Time of Loss of Feedwater Flow  
Final Steam Pressure  
Final Feedwater Flowrate  
Final Feedwater Temperature

This information should be sent to Mr. R. W. Winks at Lynchburg. Average nozzle condition information will then be sent to Mr. C. W. Bruny at Mount Vernon.

If there are any questions concerning the above information, please contact me.

GNE/hh

cc: KR Ellison  
JD Phinney  
WH Spangler  
JR Bohart  
LR Pletke  
BW Street  
JA Lauer  
JR Burris  
CW Bruny - Mt. Vernon  
RB Davis  
CD Russell  
DB Tulodieski

REVIEWED FOR ACCURACY	
ENGINEERING: <i>Robert Winks</i>	DATE: 8/11/77
NUCLEAR SERVICE: <i>CD Russell</i>	DATE: 8/11/77
<i>KR ELLISON</i>	

PG-30306

F L.C. ROGERS - M  
R  
O TMT-182 (NSS 5 F 6)  
M

T  
O G.N. Elliott  
Nuclear Service Dept.

SUBJECT SI # 5,6/130 - Anal. & Classif. of Loss of Feedwater Situations

DATE 8/11/77

FOLD - MESSAGE

NO RESPONSE REQUIRED

ORIGINATOR DO NOT WRITE BEYOND THIS LINE

REPLY TO

SIGNED

David H. Peterson

DATE

SIGNED

RETURN THE COPY TO SENDER