Preliminary

TEST RESULTS REPORT

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PROCEDURE NO. 91HF-1SC01			
PROCEDURE TITLE Steam Generator	Blowdown System Test		
REVISION AT THE COMMENCEMENT OF TH	ESTING1	DATE	5/21/83
REVISION AT COMPLETION OF TESTING	1	DATE	7/7/83
LATEST TEST CHANGE NOTICE NO	TCN 005	DATE	6/15/83
DATES OF TEST PERFORMANCE	6/11/83 to 6/15/83	_	
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Review and Approval of Test Results

PREPARED BY: Win Steam	DATE: 7-18-83
TECHNICAL REVIEW: Frank Ward	DATE: 7-18-83
GROUP SUPERVISOR REVIEW: ABack	DATE: 2.1-83
TEST WORKING GROUP MEETING NUMBER:	DATE:
PLANT REVIEW BOARD MEETING NUMBER:	DATE:
QUALITY ASSURANCE REVIEW: (Required for Test Results Reports not reviewed by TWG)	DATE:
STARTUP MANAGER APPROVAL:	DATE:

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A. Test Purpose and Scope:

91HF-1SCO1 Steam Generator Blowdown System Test was performed to demonstrate system operation during normal hot standby conditions. The following functions were tested:

- 1) Normal, Abnormal and High Rate blowdown flow control to the condensor and the blowdown flash tank.
- 2) Blowdown flash tank pressure and level control.
- 3) Blowdown demineralizer.
 - 1) Proper automatic sequencing and bed removal.
 - Demineralizer bed effluent water chemistry meets specification.
 - 3) Various alarms which required temperature and pressure not covered in preoperational test 91PE-1SCO1.
- B. Complimentary Tests:

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Secondary Chemistry Blowdown Flash Tank and Demineralizer Preoperational Test 91PE-1SCO1.

C. Test Description

The testing of this system was performed in three distinct phases:

- 1) Phase I demonstrated flow path control from the main control room, as well as Blowdown Flash Tank operation.
- 2) Phase II demonstrated proper blowdown demineralizer operation from the local control board.
- 3) Phase III demonstrated various alarms were received by either simulated or induced conditions.
- D. Test Events (TER's listed numerically)
 - 001 6/11/83 on Steam Generator Levels No retest is required.
 - 002 6/11/83 on Bed "A" Flow.
 - 003 6/11/83 Bed "B" not available.
 - 004 6/11/83 Flash tank relief valve opening. (SFR #1SC-255)
 - 005 6/11/83 on Max flow thru Bed "A".
 - 006 6/15/83 Bed "B" did not go into extended service.
 - 007 6/15/83 Bed "A" was not removed from service.
 - 008 6/15/83 No total through-put alarm.
 - 009 6/15/83 On Low flow alarm setpoint.

Completed Testing on 6/15/83

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D. Test Events (Cont'd.)

Resolved and retested TER's 002, 003, and 005 on 6/15/83. Resolved and retested TER 008 on 6/16/83. Resolved and retested TER's 006, 007, and 009 on 6/22/83.

E. Test Results

TER 004 remains open and is addressed by SFR #1SC-255. Briefly, the Flash Tank Pressure Control Valves do not actuate fast enough to prevent the atmospheric relief valves from opening when switching to high rate S/G Blowdown for a period of approximately 3 - 5 seconds. All other Acceptance Criteria were met.

F. Conclusions

The Steam Generator Blowdown Systems have been demonstrated to operate as designed. With the exception of TER 004. The system is now available for service.

G. Recommendations

As an interim solution to TER 004, if it is desired to use high rate blowdown to the flash tank, the pressure setpoint may be lowered to 175 - 200 psi until the pressure control valve respond, then increased to 225 psi (normal pressure) or, use the condensor for high rate blowdown. The PSE recommends approval of these test results by TWG.