

HOPE CREEK GENERATING STATION

OP-AP.ZZ-101(Q)

POST REACTOR SCRAM/ECCS ACTUATION
REVIEW AND APPROVAL REQUIREMENTS

Remarks:

INFORMATION
ONLY

Prepared By: M. Rogers 2/1/85
Date

Reviewed By: James H. Jones 3/31/85
Operating Engr - Hope Creek Date

ALARA Review: Radiation Protection Dept. Date

Reviewed By: SQAE Date

SORC Review: Chairman Date Mtg. No.

Approved By: Operations Mgr - Hope Creek Date

ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

Date of Occurrence _____
Time of Occurrence _____

PART A INITIAL CONDITIONS

1. Personnel Assignments

SNSS _____	NSS _____
NCO(Board) _____	NCO(Desk) _____
Rx Bldg Operator _____	Aux & Services Bldg Operator _____
Turbine Bldg Operator _____	Shift Technician _____
Shift Electrician _____	
Others _____	_____
_____	_____
_____	_____
_____	_____

2. Plant status

Reactor Power _____ 8

Generator Load _____ MW

Mode Switch Position _____

Reactor Vessel Pressure _____ (PR 623B)

Reactor Vessel Level _____ (LR 3683B)

Reactor Feed Pumps	AP101 _____	BP101 _____	CP101 _____
Pri Cond Pumps	AP102 _____	BP102 _____	CP102 _____
Sec Cond Pumps	AP137 _____	BP137 _____	CP137 _____

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ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

PART A INITIAL CONDITIONS (cont.)

Circ Wtr Pumps AP501 _____ BP501 _____ CP501 _____ DP501 _____
Recir Pump Speed AP201 _____ % BP201 _____ %

3. Evolutions in Progress at the onset of the Event.

Surveillance Testing Yes _____ No _____

Trouble Shooting or Maintenance Yes _____ No _____

Plant Startup or Shutdown Yes _____ No _____

Other Activities which could have contributed to the event
Yes _____ No _____

If the answer to any of the above questions is yes, describe the
circumstances in detail.

ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

PART A INITIAL CONDITIONS (cont.)

4. Equipment/systems out of service or inoperable at the onset of the event.

Reactor Protection System	Yes _____	No _____
ECCS Systems	Yes _____	No _____
Control Systems	Yes _____	No _____
Electrical Systems	Yes _____	No _____
Major Equipment	Yes _____	No _____

If the answer to any of the above questions is yes, describe the circumstances in detail.

5. Provide any additional information which may have led to the initiation of the event.

ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

PART B DESCRIPTION OF THE EVENT

1. Reactor Protection System

Type of Scram: Manual _____ Automatic _____

Actuation Time _____

Cause: (if automatic) _____

Reason: (if manual) _____

a. Verify the following:

(1.) All Rods fully inserted _____

(2.) Scram Discharge Volume isolated

_____ Inboard _____ Outboard

b. From the computer printout, determine the scram initiating signal.

Scram initiated by _____

c. Comments: _____

ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

2. ECCS Actuations

a. Were any ECCS System Actuations required during the event

Yes _____ No _____

b. Provide the actuation signal and time for any ECCS Systems which actuated.

	Actuation Signal	Time
HPCI	_____	_____
RCIC	_____	_____
CS	_____	_____
LPCI	_____	_____
ADS	_____	_____

c. If any discrepancies were noted in the operations of the ECCS Systems, explain in detail. _____

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3. Isolations

- a. Were any PCIS isolations required during the event?

Yes _____ No _____

Actuation Signal _____ Time _____

- b. If any discrepancies were noted in the operation of the PCIS isolation, explain in detail. _____

- c. Were any NSSSS isolations required during the event?

Yes _____ No _____

Actuation Signal _____ Time _____

- d. If any discrepancies were noted in the operation of the NSSS isolation, explain in detail. _____

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4. ATWS Related functions

a. Were any RRCS actuations required during this event?

Yes _____ No _____

Actuation Signal _____ Time _____

b. Were any discrepancies noted in the operation of any of the following systems for the given actuation signal?

	Yes	No	N/A
A.R.I.	_____	_____	_____
Rx Feed Pmp Runback	_____	_____	_____
SLC Actuation	_____	_____	_____
RWCU Isolation	_____	_____	_____
RPT Breakers	_____	_____	_____

c. Comments: _____

ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

5. What is the classification of the event as defined in the Event Classification Guide?

Time declared _____

Time terminated _____

- a. Were all of the required notifications made?

Yes _____ No _____

- b. If no, explain why _____
- _____
- _____
- _____
- _____

6. Identify any discrepancies noted in the review of the sequence of events print out. _____

ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

7. List any alarms received which were out of the ordinary for the event and alarms which should have been received, but were not.
- _____
- _____
- _____
- _____
- _____
8. Describe any corrective actions that are required prior to the units return to service. _____
- _____
- _____
- _____
9. Reconstruct the event. Include the plant conditions prior to the event, indications that a problem existed and actions performed to place the plant in a stable condition. Describe any equipment malfunctions or inadequacies noted, and any identified procedure deficiencies. Attach additional pages if required.
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

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ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

10. Identify which strip chart traces are included.

Parameter	Recorder #
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

11. Transient data for pertinent plant parameters.

	Maximum	Minimum
Steam Dome Pressure	_____	_____
Reactor Vessel Water Level	_____	_____
Reactor Core Flow	_____	_____
Reactor Power	_____ 3	_____ N/A
Drywell Pressure	_____	_____
Drywell Temperature	_____	_____
Suppression Chamber Water Level	_____	_____
Suppression Chamber Water Temp.	_____	_____

ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

12. Final Plant Conditions

Reactor Power

SRM _____

IRM _____ Range _____

Mode Switch Position _____

Reactor Vessel Pressure _____

Drywell Temperature _____

Drywell Pressure _____

Suppression Chamber Water Level _____

Suppression Chamber Water Temp. _____

Any additional parameters or remarks:

ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

Prepared By: _____ Date _____ Time _____

Reviewed and Evaluated By:

STA _____ Date _____ Time _____

SNSS _____ Date _____ Time _____

Reviewed with Operations Manager _____ Date _____ Time _____

Operations Manager _____
(Signature)

ATTACHMENT 1
POST REACTOR SCRAM/ECCS ACTUATION REVIEW

SORC and GENERAL MANAGER Review

Major findings of Investigations.

(Attach additional sheets if necessary)

Recommendations by SORC.

(Attach additional sheets if necessary)

Startup Authorization:

SORC Chairman _____	Date _____
General Manager _____	Date _____

ATTACHMENT 2
FACT FINDING QUESTIONNAIRE

1. What was the first indication that a problem existed?

2. What actions did you take as a result of the indications?

3. What were the subsequent indications and plant response, including any manual actions taken?

4. Were any equipment malfunctions or inadequacies noted?

INFORMATION
ONLY

ATTACHMENT 2
FACT FINDING QUESTIONNAIRE

5. Were any procedure deficiencies identified during the transient? _____

6. Additional Questions or Information: _____

Interviewer _____ Title _____

Interviewee _____ Title _____

Date _____