WOLF CREEK
NUCLEAR OPERATING CORPORATION

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CO 94-0038

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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Washington, D. C. 20555

Subject: Docket No. 50-482: Submittal of Scenario for Walk-through Portion of Inspection Scheduled for December of 1994

Gentlemen:

Attached is a scenario summary for the walk-through portion of the Operational Status of the Emergency Preparedness Program Inspection. The inspection is scheduled for December 5 through 8, 1994. The attached scenario consists of a timeline of major plant events. It is designed to achieve the objectives provided by Region IV NRC personnel during a recent meeting between NRC and Region IV Emergency Planners. The meeting was held in Arlington, Texas on August 15 through 17, 1994.

This submittal is in accordance with guidance provided by Region IV NRC to Region IV Emergency Planners during that meeting. If you have any questions concerning this submittal, please contact me at (316) 364-8831, extension 4001 or Mr. Richard D. Flannigan at extension 4500.

Very truly yours,

Richard N. Johannes

Richard N. Johannes

RNJ/jra

Attachments

cc: L. J. Callan (NRC), w/a
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Scenario Summary

INITIAL CONDITIONS:
The plant has been operating steady-state at 100% power for the last 24 days. The "A" EDG, "A" MDAFP and "A" SI pump are out of service for maintenance. A Process Rad HiHi alarm was received approximately 30 minutes ago on the CVCS Letdown Rad Monitor. Chemistry is sampling the RCS for activity.

EVENT	TIME	MALF	Description
Pre	0		Chemistry reports RCS Gross Activity 130 µCi/ml (above T/S limit). NUE
1	+10	EPS6	4160 Emergency Bus NB02 lockout. This will result in both EDGs being unavailable for service and only 1 Emergency Bus will have power. ALERT
2	#1 + 15	FWM9 AFW2	A Feedline break occurs in the Turbine Building resulting in a loss of S/G level and a Reactor Trip on SG LOLO level. The TDAFP will fail to start resulting in a loss of heat sink (FR-H1). SITE AREA EMERGENCY
3	#2 + 15 *	CVC13	When the operating crew initiates SI, the "A" CCP will fail to start. This will result in less than minimum required ECCS injection available. GENERAL EMERGENCY

* Estimated time, conditional on operators actions.

After turnover, Chemistry will report RCS Gross Activity is 130 µCi/ml, which is in excess of the value allowed by T/S. (Present value for 100/E is 117 µCi/ml).
Using Fuel Element Failure tree: FEF1 answered no, FEF6 answered yes results in a classification of NUE.

After the NUE is completed, NB02 will experience a lockout. The crew will respond using OFN NB-30.
Operator will report damage to the NB Bus, Electrical Maintenance reports several hours to repair.
Using Loss of Electric Power/Assessment Capability tree:
LEP/AC1 answered yes from the OR statement, -- LEP/AC2 answered no, -- LEP/AC5 answered yes, -- ALERT.

Feedline break in the Turbine Building results in a loss of S/G level and a Reactor Trip on SG LOLO level or operator discretion to manual trip.
The TDAFP will fail to start resulting in a loss of heat sink since the "A" MDAFP is tagged out, and the "B" MDAFP has no power.
Two paths to determine classification at S.O.:
Using the Safety System Failure or Malfunction tree:
SSFM1 answered yes, -- SSFM2 answered yes, -- SSFM3 answered no, -- SITE AREA EMERGENCY.
Using the Fuel Element Failure tree:
FEF1 answered yes, -- FEF2 answered yes, -- FEF3 answered no, -- FEF5 answered no, --SITE AREA EMERGENCY.

S/G inventory will continue to deplete until SI initiation criteria is met, or the crew may decide to initiate Feed and Bleed before S/G level reaches initiation criteria.

When SI is actuated, the "A" CCP will fail to start and ECCS flow will be less than 250 gpm.
Using the Safety System Failure or Malfunction tree:
SSFM1 answered yes, -- SSFM2 answered yes, -- SSFM3 answered yes, -- GENERAL EMERGENCY.