

~~PROPRIETARY INFORMATION~~

September 1, 2000

021(d)

Quad Cities Station Time Line for Drill #3  
Time Line was run on September 1, 2000, with the incorporation of a Loss of Offsite Power (LOOP) coincident with the SCRAM

On September 1, 2000, the following time line was derived using Quad Cities Station simulator to model plant response. The reactor core model was

Ex

1

Initial conditions of operating at 100% thermal power, normal feed water level control with all systems available. The times shown

Example: 13: [redacted]  
Actions are shown for one unit. Actions would be the same on the other unit.  
NOTE: With Loss Of Offsite Power, the

[redacted] This will limit the loss of inventory as compared to waiting and letting the [redacted] close at -59 inches Rx level.

- 13: Manually scram reactor from 100% power per [redacted] procedure. NOTE: Loss of Offsite Power initiated at the same time.
- 13: All rods verified in, Rx level at +8 inches, entry for [redacted]
- 13: Main Generator Trip causing loss of power to Rx Feed and Condensate pumps.
- 13: Rx level +39 inches, Rx pressure 867 psig.
- 13: Opened [redacted] to start Rx cooldown [redacted] Rx Pressure at 911 psig. This caused Rx level to swell to > +48 inches.
- 13: Opened [redacted] Rx pressure 795 psig and Rx level still > +48 inches.
- 13: Opened [redacted] Rx pressure 731 psig, Rx level +40 inches going down.
- 13: Started [redacted] per [redacted] for Injection/Pressure Control. Rx level +23 inches, Rx pressure 581 psig.
- 13: Started [redacted] per [redacted] for Injection/Pressure control. Rx level +12 inches, Rx pressure 513 psig.
- 13: [redacted] running in automatic. Rx level -11 inches (dropped due to shrink from injecting cold water), Rx pressure 415 psig, Closed all [redacted] to limit cooldown per procedure.
- 13: [redacted] Rx level 0 inches going up, Rx pressure 412 psig.
- 13: [redacted]
- 13: Rx level swelled to > +48 inches [redacted] and Rx pressure 391 psig.
- 13: Rx level still > +50 inches, Rx pressure 225 psig.
- 13: Rx level > +50 inches, Rx pressure 185 psig.

Ex

6/10

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 4 FOIA 2001-0224

Proprietary information pursuant to 2.790(d) - contains information concerning physical protection of the facility. Exemption 4

~~PROPRIETARY INFORMATION~~

13: Rx level +40 inches, Rx pressure 166 psig.

13

The Shift Manager decides overall station priorities while the Unit Supervisors control their own units. This timeline assumes the operators

84

(per drill timeline).

Unit Supervisors were able to monitor Rx level and pressure.

Personnel were dispatched to the

Operation of these systems for each unit was directed by the respective Unit Supervisors. The procedure applies to each unit independently and it directs the operation of these injection systems.

13: Rx level +22 inches, Rx pressure 143 psig.

13: Rx level +5 inches, Rx pressure 126 psig.

13: Rx level -9 inches, Rx pressure 113 psig.

13: Rx level -25 inches, Rx pressure 101 psig.

13

Rx level -43 inches, Rx pressure 93 psig.

13: Rx level -103 inches, Rx pressure 83 psig.

13: Injecting with at 400 gpm. Rx level -104 inches Rx pressure 77 psig.

13: Rx level -105 inches, Rx pressure 68 psig,

13: Rx level -105 inches Rx pressure 62 psig, One closed on its own due to low pressure.

13: Rx level -104 inches Rx pressure 59 psig.

13: Rx level -105 inches, Rx pressure 54 psig.

At this point the Shift Manger could elect to alternate to each unit to control level. steps are available to inject to either unit, however no specific steps for swapping between units explicitly direct this. There are that can be lined up to inject in operation to control Rx level.

At no time did core damage occur during the running of this model.