

QUAD CITIES STATION TIME LINE FOR DRILL #3

121
021(a)

The following time line was derived using Quad Cities simulator to model plant response. The core model used was

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EX 4

The initial conditions were :

Reactor operating @ 100% thermal power, normal feedwater level control with all systems available.

EX 4

The times shown are

Actions shown are for one unit. The other unit would be handled in the same manner.

06: Manually scram Reactor from 100% power EX 4

06: Reactor stable, all rods in, Reactor pressure 870 psig, Reactor level at +10 inches recovering to normal level.

06: Commenced Reactor cooldown by main turbine bypass valves. Reactor level swells to > 48 inches which trips the Reactor Feed Pumps. There is no high pressure injection at this time.

06: Reactor level at -59 inches automatically start and inject to the vessel, all

06: at this point during the drill (Note: Procedures and training exist for this exist) Reactor pressure at 396 psig going down slowly, Reactor level at +35 inches going up due to will automatically trip off at +48 inches Reactor level. EX 4

06: Reactor level indicated +55 inches, and Reactor pressure was 388 psig.

06: Information point only: Reactor level -25 inches and Reactor pressure 180 psig.

06: Information point only: Reactor level -45 inches and Reactor pressure 138 psig

06: Started injecting into Reactor vessel with Reactor level at -76 inches and Reactor pressure 106 psig.

06: Reactor level at -78 inches and Reactor pressure at 76 psig. At this point

key
a
line
cont

01/2

06:

Reactor level being maintained at -78 to -79 inches with [] due to low Reactor pressure. The discharge of [] can be alternated between units [] to control level on both units. []

Ex

At this point there are [] in the [] mode.

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

Gary Klone
Quad Cities Operations

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