



General Electric Company
175 Curtner Avenue, San Jose, CA 95128

April 23, 1993

Docket No. STN 52-001

Chet Poslusny, Senior Project Manager
Standardization Project Directorate
Associate Directorate for Advanced Reactors
and License Renewal
Office of the Nuclear Reactor Regulation

Subject: Submittal Supporting Accelerated ABWR Review Schedule - DFSE
Confirmatory Item 18.43-1

Dear Chet:

Enclosed are replacement pages for Page 18F-14 and Table 18F-23 of my April 22, 1993 transmittal of the same subject.

Please provide a copy of this transmittal to Clare Goodman.

Sincerely,

Jack Fox
Advanced Reactor Programs

cc: Norman Fletcher (DOE)
Keith Gregoire (GE)

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18F.3.5 RPV Flooding Contingency

When RPV water level cannot be determined or when water level instruments cannot be relied upon to provide indication of adequate core cooling, RPV flooding is required, as specified in the ABWR EPGs. The RPV Flooding Contingency provides strategies for flooding the RPV. RPV water level must be continuously monitored. The EOPs provide specific criteria for determination of validity of indicated water level instruments. A fixed-position alarm, Indicated RPV Water Level Abnormal, will alert the operator when conditions exist which indicates that the displayed RPV water level was not reliable. This alarm is considered part of the minimum set of fixed-position alarms.

A success path for RPV flooding is for the operator to initiate flooding using HPCF(B) or HPCF(C), bypassing the Level 8 HPCF shutoff interlock so that HPCF can continued to be used for flooding the RPV above level 8. The fixed-position controls and displays necessary for flooding the RPV with the reactor shutdown are given in Table 18F-21 and are included as part of the minimum inventory set.

Table 18F-21 RPV Flooding Contingency			
EPG Success Path	Controls	Alarms	Displays
C4-3.1: Initiate HPCF to inject into the RPV until at least 6 SRVs are open, RPV pressure is not increasing and is 3.27 kg/cm ² g or more above wetwell pressure, bypassing Level 8 interlock.	HPCF(B) System Initiation Switch, HPCF(C) System Initiation Switch, Level 8 HPCF(B) logic bypass (in system cabinet), Level 8 HPCF(C) logic bypass (in system cabinet),	Indicated RPV Water Level Abnormal	RPV pressure, Wetwell pressure, SRV position indication.

18F.3.6 Primary Containment Flooding Contingency

For certain postulated LOCAs, adequate core cooling can only be maintained when the primary containment is flooded to an elevation above the top of the active fuel. The minimum controls, displays, and alarms necessary for flooding the containment, and terminating injection flow into the containment, are included in Table 18F-14 and Table 18F-17, respectively.

TABLE 18F-23
MINIMUM INVENTORY OF DISPLAYS

NO.	FIXED POSITION
1	RPV WATER LEVEL
2	WETWELL PRESSURE
3	SUPPRESSION POOL BULK AVERAGE TEMPERATURE
4	HPCF(B) FLOW
5	HPCF(C) FLOW
6	RPV PRESSURE
7	DRYWELL PRESSURE
8	REACTOR POWER LEVEL, (NEUTRON FLUX, APRM)
9	REACTOR POWER LEVEL (SRNM)
10	REACTOR THERMAL POWER
11	MSIV POSITION STATUS (INBOARD AND OUTBOARD VALVES)
12	MAIN STEAM LINE RADIATION
13	SCRAM SOLENOIDS POWER STATUS LIGHTS (8)
14	RPV ISOLATION STATUS
15	RCIC FLOW
16	RHR(A) FLOW
17	RHR(B) FLOW
18	RHR(C) FLOW
19	EMERGENCY DIESEL GENERATOR (A) OPERATING STATUS
20	EMERGENCY DIESEL GENERATOR (B) OPERATING STATUS
21	EMERGENCY DIESEL GENERATOR (C) OPERATING STATUS

NO.	FIXED POSITION
22	PRIMARY CONTAINMENT WATER LEVEL
23	SUPPRESSION POOL LEVEL
24	AVERAGE DRYWELL TEMPERATURE
25	WETWELL HYDROGEN CONCENTRATION LEVEL
26	DRYWELL HYDROGEN CONCENTRATION LEVEL
27	DRYWELL OXYGEN CONCENTRATION
28	WETWELL OXYGEN CONCENTRATION
29	Main Stack radiation level
30	DRYWELL RADIATION LEVEL
31	WETWELL RADIATION LEVEL
32	SRV POSITION STATUS (6)