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 EISENHUT,D.G. Division of Licensing

SUBJECT: Forwards outline of sys & equipment required for initial fuel loading & for operational support during initial fuel load, based on listed assumptions. Operational support sys not required during fuel load for public health & safety.

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August 24, 1982

Mr. D. G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Eisenhut:

The attached lists indicate 1) those systems and equipment required for initial fuel loading and 2) those systems and equipment that will provide operational support during initial fuel load. In preparing these lists the following assumptions were used:

No decay heat and no fission product inventory will be created during the period.

The steam generators will remain in dry layup throughout this period.

Systems and equipment not included in the lists will be available and may be used if necessary or desirable.

All instrumentation associated with the required systems is also required.

Buildings and structures that contain and/or support the required systems and equipment will be available.

Those systems or portions of systems that have been identified as required for initial fuel loading will be fully qualified. Those systems or portions of systems that have been identified

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as operational support systems will be functional and can provide the functional aspects required during the initial fuel load operation. However, the operational support systems are not required during the initial fuel load operations for the public health and safety.

Very truly yours,

Philip A. Crono, Jr.

Attachments

cc: Service List
Mr. R. H. Engelken, NRC Region V
Dr. W. E. Cooper, Teledyne Engineering Services
Mr. R. F. Reedy
Dr. R. L. Cloud

TABLE 1:
SYSTEMS REQUIRED FOR INITIAL FUEL LOAD

I. PIPING

1. Reactor Coolant System
2. Chemical and Volume Control System - only those portions required as a flow path for boration
3. Safety Injection System - only that portion required as a flow path for boration
4. Residual Heat Removal System - pump and flow path to allow boron mixing
5. Sample System - only that portion which allows sampling for Boron and Chloride
6. Component Cooling Water System - only that portion for cooling of RHR pump and CCW pump and charging pump
7. Fire Protection System
8. Diesel Generator System
9. Ventilation Systems - only those portions for control room habitability and cooling of pump motors

II. ELECTRICAL

1. One offsite circuit
2. One diesel generator*
3. One vital 4kv bus*
4. One vital 480v bus*
5. One vital 125v battery
6. Two vital 120v instrument AC systems

*same train

III. INSTRUMENTATION

1. Two source range NIS detectors
N-31, N-32
2. Plant vent rad monitors
RE 14A/B, FR-12 (flow), FIS 24
3. Effluent (radwaste) monitors
RE 23/27 S/G blowdown
RE 18 liquid radwaste
RE 22 gas radwaste
RE 3 oily water separator
4. CRVS Rad monitors and miscellaneous
RE 25/26 both units
RE 51, 52, 53, 54
RE 2, RE 5, RE 9
5. SSPS for CVI
6. All seismic instruments - (Kinemetrics, PARS,
Engdahl)
7. Met tower instruments
8. Area temperature monitors for
CCW PP room
RHR PP room
Battery room
CCPP room
D/G room
Inverter rooms
480v (vital) room
4kv (vital) bus room
9. Smoke detectors
Panel A, Zones 1, 3, 4, 7, 8, 9, 10, 11, 12,
13, 14A
Panel B, Zones 1, 2, 6, 13, 15, 16
10. All racks, cabling, power supplies, indication,
alarms and automatic functions associated with the
listed instrumentation.

TABLE 2:

I. PIPING

1. Portions of Reactor Coolant System - pressurizer relief tank and lines for RHR and charging pump relief valve discharges
2. Portions of Chemical and Volume Control System - only that portion needed to maintain RCS volume and chemistry control
3. Portions of Residual Heat Removal System - only that portion that provide a letdown path for CVCS samples
4. Portions of Sample System - only that portion required to obtain CVCS letdown samples
5. Portions of Component Cooling Water System - only those non-vital portions of CCWS
6. Auxiliary Salt Water System - normal functions, could use Unit 2 pumps if needed
7. Service Cooling Water System - normal functions: cooling air compressors and air conditioning
8. Compressed Air System - instrument air portion
9. Radwaste Systems - liquid - for drains disposal;
 gaseous - for vent relief or
 disposal

II. ELECTRICAL

1. Two offsite circuits
2. Three diesel generators
3. Three vital 4kv buses
4. Three vital 480v buses
5. Three batteries
6. Four 120v instrument AC systems
7. Non-vital 4kv, 480v and 120v systems to power equipment

III. PHYSICAL EQUIPMENT

1. Spent fuelpool bridgecrane
2. Fuel transfer system
3. Manipulator crane
4. Polar crane
5. Lifting rigs for internals and vessel head