e. Core flood tank (CFT) vent valves CF-V3A and CF-V3B shall be closed and the breakers to the CFT vent valve motor operators shall be tagged open, except when adjusting core flood tank level and/or pressure

3.3.1.3 Reactor Building Spray System and Reactor Building Emergency Cooling System

The following components must be operable:

- a. Two reactor building spray pumps and their associated spray nozzles headers and two reactor building emergency cooling fans and associated cooling units (one in each train).
- b. The sodium hydroxide tank level shall be maintained at 8 ft. \pm 6 inches lower than the BWST level as measured by the BWST/NaOH tank level differential indicator. The NaOH tank concentration shall be $10.0 \pm .5$ weight percent (%).
- c. All manual valves in the discharge lines of the sodium hydroxide tank shall be locked open.

3.3.1.4 Cooling Water Systems

- a. Two nuclear service closed cycle cooling water pumps must be operable.
- b. Two nuclear service river water pumps must be operable.
- c. Two decay heat closed cycle cooling water pumps must be operable.
- d. Two decay heat river water pumps must be operable.
- e. Two reactor building emergency cooling river water pumps must be operable.
- 3.3.1.5 Engineered Safeguards Valves and Interlocks Associated with the Systems in specifications 3.3.1.1, 3.3.1.2, 3.3.1.3, 3.3.1.4 are operable.
- 3.3.2 Maintenance shall be allowed during power operation on any component(s) in the makeup and purification, decay heat, RB emergency cooling water, RB spray, CFT pressure instrumentation, CFT level instrumentation, BWST level instrumentation, or cooling water systems which will not remove more than one train of each system from service. Components shall not be removed from service so that the affected system train is inoperable for more than 72 consecutive hours. If the system is not restored to meet the requirements of Specifications 3.3.1 within 72 hours, the reactor shall be placed in a cold shutdown condition within twelve hours.

The iodine removal function of the reactor building spray system requires one spray pump and sodium hydroxide tank contents.

The spray system utilizes common suction lines with the decay heat removal system. If a single train of equipment is removed from either system, the other train must be assured to be operable in each system.

When the reactor is critical, maintenance is allowed per Specification 3.3.2 and 3.3.3 provided requirements in Specification 3.3.4 are met which assure operability of the duplicate components. The specified maintenance times are a maximum. Operability of the specified components shall be based on the results of testing as required by Technical Specification 4.5.

An allowable maintenance period of up to 72 hours may be utilized if the operability of equipment redundant to that removed from service is demonstrated immediately prior to removal.

In the event that the need for emergency core cooling should occur, operation of one makeup pump, one decay heat removal pump, and both core flood tanks will protect the core. In the event of a reactor coolant system rupture their operation will limit the peak clad temperature to less than 2,300 F and the metal-water reaction to that representing less than 1 percent of the clad.

Two nuclear service river water pumps and two nuclear service closed cycle cooling pumps are required for normal operation. The normal operation requirements are greater than the emergency requirements following a loss-of-coolant.

REFERENCES

- (1) FSAR, Section 14.2.2.3
- (2) FSAR, Section 9.5.2
- (3) FSAR, Section 15.3.2
- (4) FSAR, Section 14.2.2.3.4

					DEMA	DVC	
	CHARRIEL DESCRIPTION	CHECK	TEST	CALIBRATE	REMA	IKA	
38.	Steam Generator Water Level	W	MA	R			
39.	Turbine Overspeed Trip	NA	R*	NA			1
40.	Sodium Hydroxide Tank Level	NA	NA	R			
41.	BWST/NaOH Tank Differential Pressure Indicator	ĦΛ	ΝΛ	R			
42.	Diesel Generator Protective Relaying	NA	IIA	R			
43.	4 KV ES Bus Undervoltage Relays (Diesel Start) a. Degraded Crid	HA.	H(1)	R	(1)	Relay operation will by local test pushbo	l be check
	b. Loss of Voltage	HA	H(1)	R	(1)		1 be check
44.	Reactor Coolant Pressure DH Valve Interlock Blatable	5(1)	н.	R	(1)	When reactor coclan pressurized above 3 Taves is greater th	00 pate or
S =	Each Shift	T/W -	T/W - Twice per week			R - Each Refueling Period	
	Dally	n/n	B/H - Every 2 months			NA - Not applicable	
	Weekly	Q - Quarterly			n/w	- Every two weeks	
11 -	Honthly P - Prior to each startup If not done previous week						

^{*} Test to be performed prior to exceeding 20% power during Cycle 5 startup only.

Item

Check

Frequency

- 11. Deleted
- 12. Condenser Partition Factor

131 Partition Factor

Once if prinary/
secondary leakage
developes, i.e.: Gross
Beta-Gamma on secondary
side of OTSO is greater
than 2 x 10-5 micro
curies per cc and
evidence of fission
products is present

- (1) When radioactivity level is greater than 10 percent of the limits of Specification 3.1.4, the sampling frequency shall be increased to a minimum of 5 times per week.
- (2) E determination will be started when the 15 minute gross degassed betagamma activity analysis indicates greater than 10 pCi/ml and will be redetermined each 10 pCi/ml increase in the 15 minute gross degassed beta-gamma activity analysis. A radio chemical analysis for this purpose shall consist of a quantitative measurement of 95 percent of radionuclides in reactor coolant with half lives of >30 minutes.
- (3) When the gross activity increases by a factor of two above background, an iodine analysis will be made and performed thereafter when the gross activity increases by 10 percent.