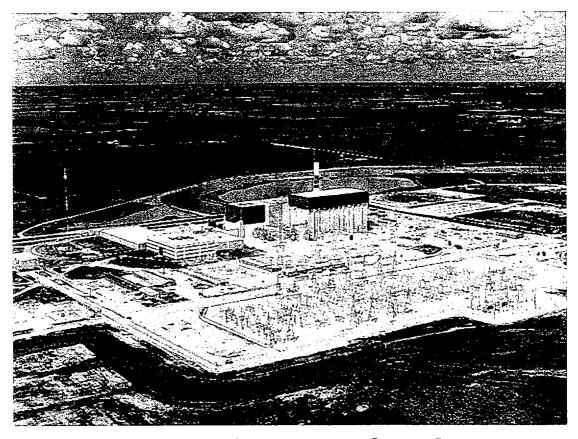
Improved Technical Specifications

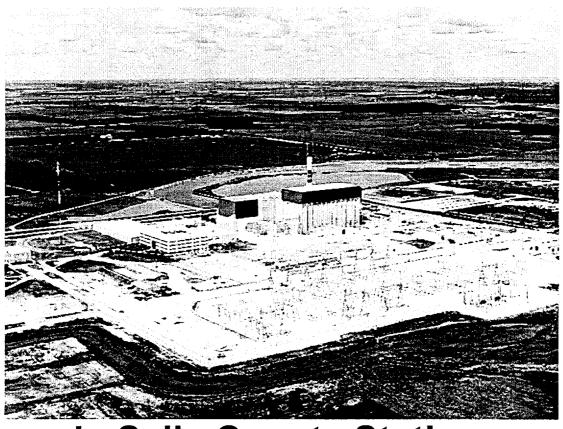


LaSalle County Station

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Improved Technical Specifications



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LA SALLE - UNIT 2

1-1

The CHANNEL FUNCTIONAL TEST may be performed by any series of sequential. overlapping, or total channel steps such that the entire channel is tested.

Amendment No. 116

Page 16 of 29

CORE ALTERATION

CORE ALTERATION shall be the movement of any fuel, sources, or reactivity control components, within the reactor vessel with the vessel head removed and fuel in the vessel. The following exceptions are not considered to be CORE ALTERATIONS:

- Movement of source range monitors, local power range monitors, intermediate range monitors, traversing incore probes, or special movable detectors (including undervessel replacement): (and)
- Control rod movement, provided there are no fuel assemblies in the associated core cell.

Suspension of CORE ALTERATIONS shall not preclude completion of movement of a component to a safe position.

cycle Specific

parameter

The CORE OPERATING LIMITS REPORD is the unitespecific document that provides core operating limits for the current operating reload cycle. These cycle specific core operating limits shall be determined for each reload cycle in accordance with Specification 6.6/A.B. Plant operation within these operating limits is addressed in individual specifications.

(5.6.5)

A.I.

CRIVICAL POWER RATIO

CORE OPERATING LIMITS REPORT (COLR)

(appropriate) The CMILLAL PUWER RAIZO OCPRO Shaze be the ratio of that power/in the assembly which is calculated by application of the approved CPRO correlation to cause some point in the assembly to experience boiling transition, divided by the actual assembly operating power

DOSE EQUIVALENT I-131

Insert into MAR definition on Party

(microcuries/gram) (microcuries/

A.1

-AVERAGE DISINTEGRATION ENERGY

E shall be the average, weighted in proportion to the concentration of each radionuclide in the reactor coolant at the time of sampling, of the sum of the average beta and gamma energies per disintegration, in MeV. for isotopes, with half lives greater than 15 minutes, making up at least 95% of the total non-jodine activity in the coolant.

A.2

EMERGENCY CORE COOLING SYSTEM (ECCS) RESPONSE TIME

The EMERGENCY CORF COOLING SYSTEM DECCSO RESPONSE TIME shall be that time interval from when the monitored parameter exceeds its ECCS actuation (nother setpoint at the channel sensor until the ECCS equipment is capable of performing its safety function (i.e., the valves travel to their required positions, pump discharge pressures reach their required values, etc.) Itimes shall include diesel generator starting and sequence loading delays where applicable. The response time may be measured by any series of sequential, overlapping or total steps (SUCD) that the entire response time is measured. (means of

AI

LA SALLE - UNIT 2

Amendment No. 121

L.A

Table E-7 of Regulatory Guide 1.109, Rev. 1, NRC, 1977; or ICRP 30, Supplement to Part 1, pages 192-212, Table titled, "Committed Dose Equivalent in Target Organs or Tissues per Intake of Unit Activity.

The END-OF-CYCLE RECIRCULATION PUMP TRIP SYSTEM RESPONSE TIME SOCIETY THE COC-RPT TRIP SYSTEM RESPONSE TIME shall be that time interval to energization of the recipculation pump circuity

Insert 1 A.6

LA SALLE - UNIT 2

1-2a

Amendment No. 121

Page 180 f 29

DEFINITIONS ENDAORACYCLE RECIRCULATION PUMP TRIPESYSTEM RESPONSE TIME (Continued) breaker trip coil from when the monitored parameter exceeds its trip setpoint at the channel sensor of the associated: Turbine stop valves, and (A.1 Yurbine control valves The response time may be measured by any series of sequential, overlapping or total steps such that the entire response time is measured. 1.14 DELETED A·1 FRACTION OF RATED THERMAL POWER The FRACTION OF RATED THERMAL POWER (FRTP) shall be the measured THERMAL POWER. A.L FREQUENCY NOTATION The FREQUENCY NOTATION specified for the performance of Surveillance A.T Requirements shall correspond to the intervals defined in Table 1.1. GASEOUS RADWASTE TREATMENT SYSTEM 1.17 A GASEOUS RADWASTE TREATMENT SYSTEM shall be any system designed and installed to reduce radioactive gaseous effluents by collecting primary coolant system offgases from the primary system and providing for delay A. 2 or holdup for the purpose of reducing the total radioactivity prior to release to the environment. IDENTIFUED LEAKAGE AB AI THE COENTYFIED LEAKAGE shall be: M-9 that from (Leakage into collection systems) such as pump sea (sor valve A.1 packing (baks, that is captured and conducted to a sump or collecting tank or Leakage into the containment atmosphere from sources that are both specifically located and known either not to interfere with the operation of the leakage detection systems or not to A.9 a. Identified be PRESSURE BOUNDARY LEAKAGE O A.B LEAKAGE ISOLATION SYSTEM RESPONSE TIME Ciritiation 1/19 The ISOLATION SYSTEM RESPONSE TIME shall be that time interval from when the monitored parameter exceeds its isolation actuation setpoint at the channel sensor until the isolation valves travel to their required positions. Times shall include diesel generator starting and sequence loading delays where applicable. The response time may be measured by any series of sequential, overlapping or total steps such that the entire A.10 (1.26 DELETED INSERT definition of Unidentified LEAKAGE and Total LEAKAGE from page 1-7 INSERT definition of Pressure Boundary LEAKAGE from page 1-5 8.A LA SALLE - UNIT 2 Amendment No. 101

DEFINITIONS LIMITING CONTROL ROD PATTERN 1.21 A LIMITING CONTROL ROD PATTERN shall be a pattern which results in the core being on a thermal hydraulic limit, i.e., operating on a limiting value for APLHGR, LHGR, or MCPR. 4.2 LINEAR HEAT GENERATION RATE (LHGP) INCOLUMN HEAT GENERATION RATE (LHGRE) shall be the heat generation per unit length of fuel rod. It is the integral of the heat flux over the heat transfer area associated with the unit length. (LHGR is monitored by the transfer for the length of LHGR to its fuel apprint A.1 ratio of LHGR to its fuel specific limit, as specified in the CORE OPERATING LIMITS REPORT. LOGIC SYSTEM FUNCTIONAL TEST (Soired) A LOGIC SYSTEM FUNCTIONAL TEST shall be a test of all logic components, (i.e. all relays and contacts, D) trip units, solid state logic elements, of the etc.) of a logic circuit, from sensor through and including the actuated device to verify OPERABILITY. THE LOGIC SYSTEM FUNCTIONAL TEST may be performed by any series of sequential, overlapping or total system steps such that the entire logic system is tested. (means of) as close to th aspracticable 1.24 Deleted MEMBERS(S) OF THE PUBLIC 1.25 MEMBER(S) OF THE PUBLIC shall include all persons who are not occupationally associated with the plant. This category does not include employees of the licensee, its contractors, or venders. Also excluded from this category are persons who enter the site to service equipment or to make deliveries. This category does include persons who use portions of the site for recreational, occupational, or other purposes not associated with the plant. A. 2 MINIMUM CRITICAL POWER RATIO (MCPR) Critical power ratio The MINIMUM CRITICAL POWER RATIO (MCPRO) shall be the smallest CPR) which that exists in the core. (Great class of fuel) A-1 Insert definition of CPR OFFSITE DOSE CALCULATION MANUAL from page 1-2 A,S 1.27 The OFFSITE DOSE CALCULATION MANUAL (ODCM) shall contain the methodology The OFFSITE DOSE CALCULATION MANUAL (ODCM) shall contain the methodology and parameters used in the calculation of offsite doses resulting from radioactive gaseous and liquid effluents, in the calculation of gaseous and liquid effluent monitoring Alarm/Trip Setpoints, and in the conduct of the Environmental Radiological Monitoring Program. The ODCM shall also contain (1) the Radioactive Effluent Controls and Radiological Environmental Monitoring Programs required by Technical Specification Section 6.2.F.4 and (2) descriptions of the information that should be included in the Annual Radiological Environmental Operating and Annual Radioactive Effluent Release Reports required by Technical Specification Sections 6.6.A.3 and 6.6.A.4. A.12 moves Section



DEFINITIONS

LIMITING CONTROL ROD PATTERN

1.21 A LIMITING CONTROL ROD PATTERN shall be a pattern which results in the core being on a thermal hydraulic limit, i.e., operating on a limiting value for APLHGR, LHGR, or MCPR.

LINEAR HEAT GENERATION RATE

1.22 LINEAR HEAT GENERATION RATE (LHGR) shall be the heat generation per unit length of fuel rod. It is the integral of the heat flux over the heat transfer area associated with the unit length. LHGR is monitored by the ratio of LHGR to its fuel specific limit, as specified in the CORE OPERATING LIMITS REPORT.

LOGIC SYSTEM FUNCTIONAL TEST

1.23 A LOGIC SYSTEM FUNCTIONAL TEST shall be a test of all logic components, i.e, all relays and contacts, all trip units, solid state logic elements, etc: of a logic circuit, from sensor through and including the actuated device to verify OPERABILITY. THE LOGIC SYSTEM FUNCTIONAL TEST may be performed by any series of sequential, overlapping or total system steps such that the entire logic system is tested.

1.24 Deleted

pter ho

MEMBERS(S) OF THE PUBLIC

1.25 MEMBER(S) OF THE PUBLIC shall include all persons who are not occupationally associated with the plant. This category does not include employees of the licensee, its contractors, or vendors. Also excluded from this category are persons who enter the site to service equipment or to make deliveries. This category does include persons who use portions of the site for recreational, occupational, or other purposes not associated with the plant.

MINIMUM CRITICAL POWER RATIO

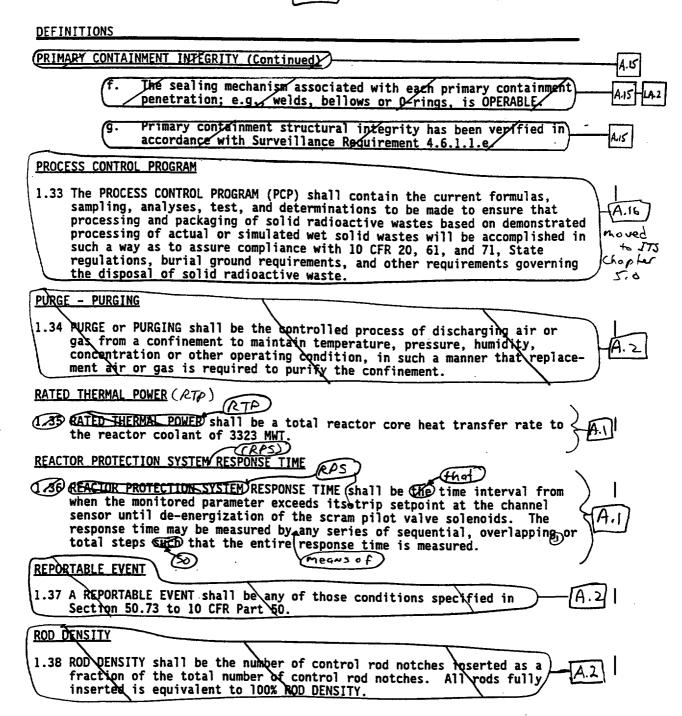
1.26 The MINIMUM CRITICAL POWER RATIO (MCPR) shall be the smallest CPR which exists in the core.

5.5.1 OFFSITE DOSE CALCULATION MANUAL

1.27 The OFFSITE DOSE CALCULATION MANUAL (ODCM) shall contain the methodology and parameters used in the calculation of offsite doses resulting from radioactive gaseous and liquid effluents, in the calculation of gaseous and liquid effluent monitoring Alarm/Trip Setpoints, and in the conduct of the Environmental Radiological Monitoring Program. The ODCM shall also contain (1) the Radioactive Effluent Controls and Radiological Environmental Monitoring Programs required by Technical Specification Section 6.2.F.4 and (2) descriptions of the information that should be included in the Annual Radiological Environmental Operating and Annual Radioactive Effluent Release Reports required by Technical Specification Sections 6.6.A.3 and 6.6.A.4.

Amendment No. 113

DEFINITIONS	
OPERABLE - OPERABILITY Sivision	71
A system, subsystem, (thair), component or device shall be OPERABLE or have OPERABLITY when it is capable of performing its specified function(s), and when all necessary attendant instrumentation, controls, a normal and emergency electrical power source, cooling of seal water, lubrication other auxiliary equipment that are required for the system, subsystem, that the second of the system, subsystem, subs	413
(500-16)	113
AN OPERATIONAL CONDITION, i.e., CONDITION, shall be any one inclusive combination of mode switch position and average reactor coolant temperature specified in Table 52.	14
to it tensioning) (Pactor description	
1.30 PHYSICS TESTS shall be those tests performed to measure the fundamental nuclear characteristics of the reactor core and related instrumentation and 1) described in Charter 14 of the FSAR, 2) authorized under the provisions of 10 CFR 50.59, or 3) otherwise approved by the Commission.	<u>A.2</u>
H) PRESSURE BOUNDARY/LEAKAGE	
in a reactor coolant system component body, pipe wall or vessel wall.]
PRIMARY CONTAINMENT INTEGRITY	
1.32 PRIMARY CONTAINMENT INTEGRITY shall exist when:	AIS
a. All primary containment penetrations required to be closed during accident conditions are either:	
Capable of being closed by an OPERABLE primary containment automatic isolation system, or	- LA2
2. Closed by at least one manual valve, blind flange, or deactivated automatic valve secured in its closed position, except for valves that are open under administrative control as permitted by Specification 3.6.3.	A15
b. All primary containment equipment hatches are closed and sealed.	
c. Each primary containment air lock is OPERABLE pursuant to **Specification 3.6.1.3.	
d. The primary containment leakage rates are maintained within the limits per Surveillance Requirement 4.6.1 1.b.	A.G
e. The suppression chamber is OPERABLE pursuant to Specification 3.6.2.1.	14.0



(See ITS Chapter 1.0)

DEFINITIONS

PRIMARY CONTAINMENT INTEGRITY (Continued)

- f. The sealing mechanism associated with each primary containment penetration; e.g., welds, bellows or 0-rings, is OPERABLE.
- g. Primary containment structural integrity has been verified in accordance with <u>Surveillance Requirement 4.6.1.1.e.</u>

PROCESS CONTROL PROGRAM

1.33 The PROCESS CONTROL PROGRAM (PSP) shall contain the current formulas, sampling, analyses, test, and determinations to be made to ensure that processing and packaging of solid radioactive wastes based on demoistrated processing of actual or simulated wat solid wastes will be accomplished in such a way as to assure compliance with 10 CFR 20, 61, and 71, State regulations, burial ground requirements, and other requirements governing the disposal of solid radioactive waste.



PURGE - PURGING

1.34 PURGE or PURGING shall be the controlled process of discharging air or gas from a confinement to maintain temperature, pressure, humidity, concentration or other operating condition, in such a manner that replacement air or gas is required to purify the confinement.

RATED THERMAL POWER

1.35 RATED THERMAL POWER shall be a total reactor core heat transfer rate to the reactor coolant of 3323 MWT.

REACTOR PROTECTION SYSTEM RESPONSE TIME

1.36 REACTOR PROTECTION SYSTEM RESPONSE TIME shall be the time interval from when the monitored parameter exceeds its trip setpoint at the channel sensor until de-energization of the scram pilot valve solenoids. The response time may be measured by any series of sequential, overlapping or total steps such that the entire response time is measured.

REPORTABLE EVENT

1.37 A REPORTABLE EVENT shall be any of those conditions specified in Section 50.73 to 10 CFR Part 50.

ROD DENSITY

1.38 ROD DENSITY shall be the number of control rod notches inserted as a fraction of the total number of control rod notches. All rods fully inserted is equivalent to 100% ROD DENSITY.

(See ITS Chapter 1.0)

LA SALLE - UNIT 2

1-5a

Amendment No. 87

Rage Sofy

<u>DEFINITIONS</u> SECONDARY CONTAINMENT INTEGRITY 1.39 SECONDARY CONTAINMENT INTEGRATY shall exist when: All secondary containment penetrations required to be closed during accident conditions are either: Capable of being closed by an OPERABLE secondary containment automatic isolation system, or AIS Closed by at least one manual valve, blind frange, or deactivated automatic damper secured in its closed position, except as provided in Table 3.6.5.2-1 of Specification 3. All secondary containment hatches and blowout panels are closed Ъ. and sealed. AIS HLAZ The standby gas treatment system is OPERABLE pursuant to Specification 3.6.5.3. A.15 At least one door in each access to the secondary containment d. The sealing mechanism as ociated with each secondary containment penetration, e.g., welds, bellows or O-rings/is OPERABLE. A.15 The pressure within the secondary containment is less than o equal to the value required by Specification 4.6.5.1.a. A.IS SHUTDOWN MARGIN (50M) (that:) A SHUTDOWN MARGIN shall be the amount of reactivity by which the reactor is subcritical or would be subcritical assuming Al control rods are fully) (I.Ak inserted except for the single control rod of highest reactivity worth which is assumed to be fully withdrawn and the reaction is in the shutdown Condition; cold, 1.e) 68°F; and xenon free (Insert 1 b. The moderator a. The rea. tor A.17 SITE BOUNDARY temperature is 1.41 The SITE BOUNDARY shall be that line beyond which the land is neither owned, nor leased, nor otherwise controlled by the licensee. A - 2 SOURCE CHECK 1.42 A SOURCE CHECK shall be the qualitative assessment of chaquel response when the channel sensor is exposed to a radioactive source. STAGGERED TEST BASIS 143 A STAGGERED TEST BASIS shall consist of A test schedule for n systems, subsystems, trains or other designated components obtained by dividing the specified test A.18 interval into n equal subintervals. (Insert LA SALLE - UNIT 2 1-6

DEFINITIONS STAGGERED TEST BASIS (Continued) The testing of one system, subsystem, train or other designated component at the beginning of each subinterval. THERMAL POWER 1.44 THERMAL POWER shall be the total reactor core heat transfer rate to the reactor coolant. TURBINE BYPASS SYSTEM RESPONSE TIME The TURBINE BYPASS SYSTEM RESPONSE TIME shall be time interval from when the turbine bypass control unit generates a turbine bypass valve flow signal until the turbine bypass valves travel to their required positions. The response time may be measured by any series of sequential, overlapping or total steps such that the entire (response time is measured. (b.) UNIDENTIFIED LEAKAGE Means of into the drywell that AIL (MADENTIFIED LEAKAGE Shall be all leakage which is not [IDENTIFIED] LEAKAGE VENTILATION EXHAUST TREATMENT SYSTEM A VENTILATION EXHAUST TREATMENT SYSTEM shall be any system designed and installed to reduce gaseous radioiotine or radioactive material in particulate form in effluents by passing ventilation or vent exhaust gases through charcoal adsorbers and/or HERA filters for the purpose of removing (A.2 iodines or particulates from the gaseous exhaust stream prior to the release to the environment (such a system is not considered to have any effect an noble gas effluents). Engineered Safety Feature (ESF) atmospheric cleanup systems are not considered to be VENTILATION EXHAUST TREATMENT SYSTEM components. VEN'XING 1.48 VENTING shall be the controlled process of discharging air or gas from a confinement to maintain temperature, pressure, humidity, concentration or other operating condition, in such manner that replacement ir or gas is not provided or required during VENTING. Vent, used in system names, does A.2 not imaly a VENTING process. LA SALLE - UNIT 2 1-7 Amendment No. 87 C. TOTAL LEAKAGE Page 26 of 29 SUM DE THE IDENTIFIED AND

UNIDENTIFIED LEAKAGE; AND

A.1

TABLE 1.1

SURVEILLANCE FREQUENCY NOTATION

NOTATION S D W M Q SA A R S/U

N.A.

FREQUENCY

- At least once per 12 hours
- At least once per 24 hours.
- At least once per 7 days.
- At least once per 31 days.
- At least once per 92 days.
- At least once per 184 days.
- At least once per 366 days.
- At least once per 18 months (550 days).

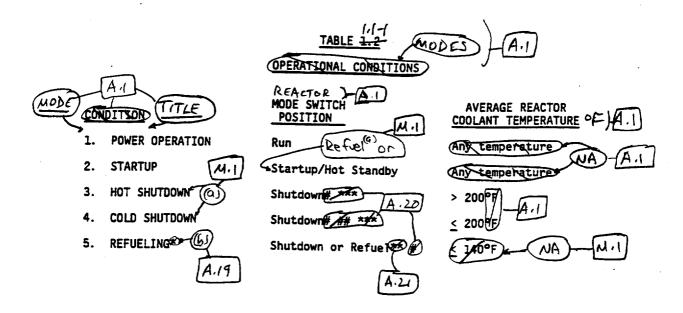
Prior to each reactor startup.

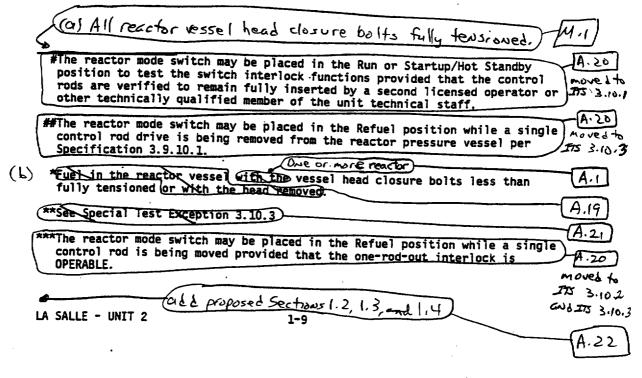
Prior to each radioactive release.

Not applicable.

LA SALLE - UNIT 2







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AI

TABLE 1.2

OPERATIONAL CONDITIONS

CONDITION		MODE SWITCH POSITION	AVERAGE REACTOR COOLANT TEMPERATURE	
1.	POWER OPERATION	Run	Any temperature	
2.	STARTUP	Startup/Hot Standby	Any temperature	
3.	HOT SHUTDOWN	Shutdown ***	> 200°F	
4.	COLD SHUTDOWN	Shutdown ## ****	≤ 200°F	
5.	REFUELING*	Shutdown or Refuel**	≤ 140°F	

<See IIS Chapter 1.6>

Applicability

in core cells containing one or more tuel assembles. Applicability of MODE 3,4, and 5add proposed LCO 3.10.1.6 (F)he reactor mode switch may be placed in the Run or Startup/Hot Standby position to test the switch interlock functions provided that the control rods are verified to remain fully inserted by a second licensed operator or LCO3.10.1 other technically qualified member of the unit technical staff. ##The reactor mode switch may be placed in the Refuel position while a single control rod drive is being removed from the reactor pressure vessel per Specification 3.9.10.1. *Fuel in the reactor vessel with the vessel head closure bolts less than fully tensioned or with the head removed. *See Special Test Exception 3.10.3 ^{ext}The reactor'mode switch may be placed in the Refuel position while a single control rod is being moved provided that the one-rod-out interlock is OPERABLE. (See ITS Chapter 1.07 LA SALLE - UNIT 2

1.1

1-9

Add proposed ACTION and Surveillance Requirements

TABLE 1.2 OPERATIONAL CONDITIONS AVERAGE REACTOR HODE SWITCH COOLANT TEMPERATURE POSITION POWER OPERATION Run Any temperature STARTUP Startup/Hot Standby Any temperature HOT SHUTDOWN Shutdown# (* > 200°F Applicability COLD SHUTDOWN Shutdown# # < 200°F REFUELING* Shutdown or Refuel** < 140°F #The reactor mode switch may be placed in the Run or Startup/Hot Standby position to test the switch interlock functions provided that the control rods are verified to remain fully inserted by a second licensed operator or other technically qualified member of the unit technical staff. ##The reactor mode switch may be placed in the Refuel position while a single control rod drive is being removed from the reactor pressure vessel per Specification 3.9.10.1. *Fuel in the reactor vessel with the vessel head closure bolts less than fully tensioned or with the head removed. Applica bility of Mode 3 **See Special Test Exception 3.10.3 LC03.10.2 reactor mode switch may be placed in the Refuel position while a single control rod is being moved provided that the one-rod-out interlock is OPERABLE. 4 LC03.10.2.a add proposed LCD 3.10.2.b, C, andd

LA SALLE - UNIT 2

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-	(TABLE 1.2		
		OPERATIONAL CONDITIONS	·	
	CONDITION	MODE SWITCH POSITION	AVERAGE REACTOR COOLANT TEMPERATURE	
	1. POWER OPERATION	R un	Any temperature	10 - 0
	2. STARTUP	Startup/Hot Standby	Any temperature	See Its Chapter 1.0>
	3. HOT SHUTDOWN	Shutdown# ***	> 200°F	
	4. COLD SHUTDOWN	Shutdown# (##)	< 200°F	
icability -	5. REFUELING*	Shutdown or Refuel**	≤ 140°F	
.			•	
		·		
		•	•	
. المار				
			·	
icability Mode 4	position to test the rods are verified to	tch may be placed in the Run switch interlock functions p remain fully inserted by a s alified member of the unit to	provided that the contro second licensed operator	1 or
LCD 3.10.3	softhe reactor mode swits control rod drive is Specification 3.9.10.	both may be placed in the Refu being removed from the react 1.	uel position while a sin tor pressure vessel per	gle
	*Fuel in the reactor fully tensioned or w	vessel with the vessel head (ith the head removed.	closure bolts less than	See ITS Chapter 1.0;
•	meSee Special Test Exc	eption 3.10.3	•)
LCO 3.10.3 LCO 3.10.3 b.	control rod is being	tch may be placed in the Refi moved provided that/the one	uel position while a sin- -rod-out interlock is	ngle .
	Applicability of NOOF		•	
	LA SALLE - UNIT 2	add proposed LCD 3-10.3. b.1 con	trol rod position indication	requirement) 112
				U

LA SALLE - UNIT 2

2-1

Amendment No.116

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	SAFETY LIMITS AND LIMITING SAFETY SYSTEM SETTINGS	<u></u>
		mated to
	SAFETY LIMITS (Continued)	213 33.1.1
	REACTOR VESSEL WATER LEVEL	
2.1.1.3	2.1.4 The reactor vessel water level shall be above the top of the active irradiated fuel.	•
	APPLICABILITY: OPERATIONAL CONDITIONS 3, 4 and 5	M.I
•	ACTION:	
2.2	With the reactor vessel water level at or below the top of the active irradiated fuel. Manually initiate the ECCS to restore the water level after depressurizing the reactor vessel, if required. Comply with the requirements of Specification 5.4.	 /.

IA SALLE - INIT 2

moved to movedto ITS 3.3,1.1 급 42 With a reactor protection system instrumentation setpoint less conservative than the value shown in the Allowable Values column of Table 2.2.1-1. declare the channel inoperable and apply the applicable ACTION statement requirement of Specification 3.3.1 until the channel is restored to OPERABLE status with its setpoint adjusted consistent with the Trip Setpoint value. 2.2.) The reactor protection system instrumentation setpoints shall be set consistent with the Irip Setpoint velues shown in Table 2.2.1-1. REACTOR PROTECTION SYSTEM INSTRUMENTATION SETPOINTS SAFETY LIMITS (NO LIMITING SAFETY SYSTEM SELLINGS) APPLICABILITY: As shown in Table 3.3.1-1. 2.2 LIMITING SAFETY SYSTEM SETTINGS ACTION:

fage 8 of 10

LA SALLE - UNIT 2

SAFETY LINITS AND LIMITING SAFETY SYSTEM SETTINGS

2.2 LIMITING SAFETY SYSTEM SETTINGS

REACTOR PROTECTION SYSTEM INSTRUMENTATION SETPOINTS

LCO 3.3.1.1 2.2.1 The reactor protection system instrumentation setpoints shall be set consistent with the The Setpoint values shown in Table 2.2.1-12-14.11

APPLICABILITY: As shown in Table 3.3.1-1.

ACTION:

ACTIONS A, B, and C With a reactor protection system instrumentation setpoint less conservative than the value shown in the Allowable Values column of Table (2.2.1-1) declare the channel inoperable and apply the applicable ACTION statement requirement of Specification 3.3.1 until the channel is restored to OPERABLE status with its setpoint adjusted consistent with the Trip Setpoint value.

FIINC	TIONAL UN	·		ALLOWABLE
_			IRIP SETPOINT	YALUES
1. 2.		iate Range Monitor, Neutron Flux-High	≤ 120 divisions of full scale	≤ 122 divisions of full scale
٤.	a. Neu	Power Range Monitor: tron Flux-High, Setdown	≤ 15% of RATED THERMAL POWER	≤ 20% of RATED THERMAL POWER
	1)	w Biased Simulated Thermal Power - Upsc Two Recirculation Loop Operation	ale	
		a) Flow Biased	≤ 0.58W + 59% with a	≤ 0.58W + 62% with
		b) High Flow Clamped	a maximum of ≤ 113.5% of RATED THERMAL POWER	a maximum of ≤ 115.5% of RATED THERMAL POWER
	2)	Single Recirculation Loop Operation		
		a) Flow Biased	≤ 0.58W + 54.3% with a maximum of	≤ 0.58W + 57.3X with a maximum (
		b) High Flow Clamped	≤ 113.5% of RATED THERMAL POWER	≤ 115.5% of RATED THERMAL POWER
	c. Fixed	d Neutron Flux-High	≤ 118% of RATED THERMAL POWER	≤ 120% of RATED THERMAL POWER
3.	Reactor	Vessel Steam Dome Pressure – High	≤ 1043 psig	≤ 1063 psig
4.	Reactor	Vessel Water Level - Low, Level 3	≥ 12.5 inches above instrument zero*	≥ 11 inches above instrument zero
5.	Main Ste	am Line Isolation Valve - Closure	≤ 8% closed	≤ 12% closed
6.	DELETED			
7.	Primary (Containment Pressure – High	≤ 1.69 psig	≤ 1.89 psiq
8.	Scram Di	scharge Volume Water Level – High	≤ 767′ 5₺"	≤ 767′ 5¼"
9.	Turbine :	Stop Valve - Closure	≤ 5% closed	≤ 7% closed

*See Bases Figure B 3/4 3-1.

LA SALLE - UNIT 2

(LF.)

T.A.I

Table 3.3.1.1-1

Function **FUNCTIONAL UNIT** I.a and I.b \$ 1. Intermediate Range Monitor, Neutron Flux-High 2.a {2. Average Power Range Monitor: a. Neutron Flux-High, Setdown Flow Biased Simulated Thermal Power - Upscale Two Recirculation Loop Operation a) Flow Blased b) High Flow Clamped Single Recirculation Loop Operation
a) Flow Biased b) High Flow Clamped $2.c \frac{1}{2}$ c. Fixed Neutron Flux-High 3. 33. Reactor Vessel Steam Dome Pressure - High 4. 34. Reactor Vessel Water Level - Low, Level 3 5, 5. Main Steam Line Isolation Valve - Closure 6. DELETED (...) 7. Primary Containment Pressure - High

TRIP SETPOINT ≤ 120/divisions of full scale ≤ 1/5% of RATED THERMAL POWER ≤ 0.58W +/59% with ≤ 113.5% of RATED THERMAL POWER ≤ 0.5#W + 54.3%/with a waximum of ≤ 118.5% of RATED THERMAL POWER ≤ /118% of RATED THERMAL POWER ≥ 12.5 inches above Instrument zero* ≤ 8% c/losed ≤ 1/69 psig ≤ #67' 5\" 5% closed

ALLOWABLE **YALUES**

≤ 122 divisions of full scale

≤ 20% of RATED THERMAL POWER

≤ 0.58W + 62% with a maximum of

≤ 115.5% of RATED THERMAL POWER

≤ 0.58W + 57.3% ≤ 115.5% of RATED

THERMAL POWER ≤ 120% of RATED THERMAL POWER

≤ 1063 psig

≥ 11 inches above Instrument zero*

(LA.6)

≤ 12% closed

≤ 1.89 psig

≤ 767' 54"

≤ 7% closed

7.a and 7.b 38. Scram Discharge Volume Water Level - High

8, §9. Turbine Stop Valve - Closure

IA SALLE .. HATT 9

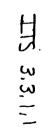
TABLE 2.2.1-1					
REACTOR	PROTECTION	SYSTEM	INSTRUMENTATION	SETPOINTS	(Continued)

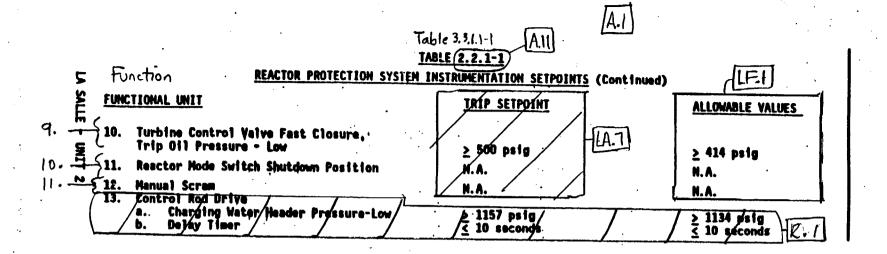
FUNCTIONAL UNIT	TRIP SETPOINT	ALLOWABLE VALUES
10. Turbine Control Valve Fast Closure, Trip Oil Pressure - Low	≥ 500 psig	≥ 414 psig
11. Reactor Mode Switch Shutdown Position	N.A.	N. A.
12. Manual Scram 13. Control Rod Drive	N.A.	N.A.
a. Charging Water Header Pressure-Lo b. Delay Timer	w ≥ 1157 psig ≤ 10 seconds	≥ 1134 psig ≤ 10 seconds

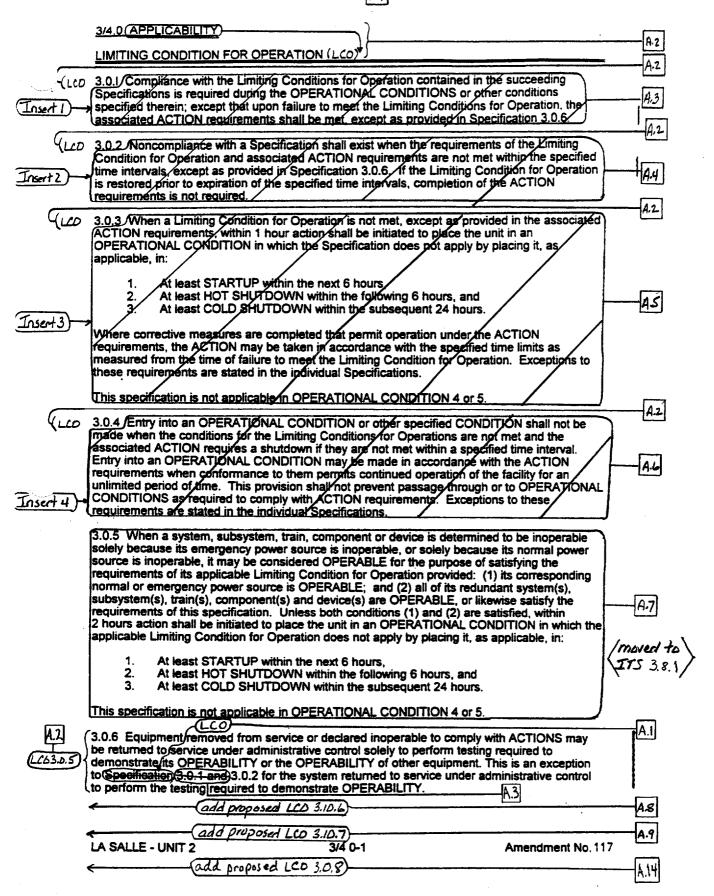
LA SALLE - UNIT 2

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moved to
Its 3.3.1.1







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3/4.0 APPLICABILITY

A.I

LIMITING CONDITION FOR OPERATION

3.0.1 Compliance with the Limiting Conditions for Operation contained in the succeeding Specifications is required during the OPERATIONAL CONDITIONS or other conditions specified therein; except that upon failure to meet the Limiting Conditions for Operation, the associated ACTION requirements shall be met, except as provided in Specification 3.0.6.

3:0.2 Noncompliance with a Specification shall exist when the requirements of the Limiting Condition for Operation and associated ACTION requirements are not met within the specified time intervals, except as provided in Specification 3.0.6. If the Limiting Condition for Operation is restored prior to expiration of the specified time intervals, completion of the ACTION requirements is not required.

3.0.3 When a Limiting Condition for Operation is not met, except as provided in the associated ACTION requirements, within 1 hour action shall be initiated to place the unit in an OPERATIONAL CONDITION in which the Specification does not apply by placing it, as applicable, in:

At least STARTUP within the next 6 hours,

At least HOT SHUTDOWN within the following 6 hours, and 2.

At least COLD SHUTDOWN within the subsequent 24 hours.

Where corrective measures are completed that permit operation under the ACTION requirements, the ACTION may be taken in accordance with the specified time limits as measured from the time of failure to meet the Limiting Condition for Operation. Exceptions to these requirements are stated in the individual Specifications.

This specification is not applicable in OPERATIONAL CONDITION 4 or 5.

3.0.4 Entry into an OPERATIONAL CONDITION or other specified CONDITION shall not be made when the conditions for the Limiting Conditions for Operations are not met and the associated ACTION requires a shutdown if they are not met within a specified time interval. Entry into an OPERATIONAL CONDITION may be made in accordance with the ACTION requirements when conformance to them permits continued operation of the facility for an unlimited period of time. This provision shall not prevent passage through or to OPERATIONAL CONDITIONS as required to comply with ACTION requirements. Exceptions to these requirements are stated in the individual Specifications.

Required Actions A.2. B.2, C.2, and D.1

3.0.5 When a system, subsystem, train, component or device is determined to be inoperable solely because its emergency power source is inoperable, or solely because its normal power source is inoperable, it may be considered OPERABLE for the purpose of satisfying the requirements of its applicable Limiting Condition for Operation provided: (1) its corresponding normal or emergency power source is OPERABLE; and (2) all of its redundant system(s), subsystem(s), train(s), component(s) and device(s) are OPERABLE, or likewise satisfy the requirements of this specification. Unless both conditions (1) and (2) are satisfied, within 2 hours action shall be initiated to place the unit in an OPERATIONAL CONDITION in which the applicable Limiting Condition for Operation does not apply by placing it, as applicable, in:

At least STARTUP within the next 6 hours,

At least HOT SHUTDOWN within the following 6 hours, and

2. At least COLD SHUTDOWN within the subsequent 24 hours.

This specification is not applicable in ORERATIONAL CONDITION 4 or 5.

24 hours for proposed Required Action A.2 12 hours for proposed Required Action D.1 4 hours for

3.0.6 Equipment removed from service or declared inoperable to comply with ACTIONS may be returned to service under administrative control solely to perform testing required to demonstrate its OPERABILITY or the OPERABILITY of other equipment. This is an exception to Specification 3.0.1 and 3.0.2 for the system returned to service under administrative control to perform the testing required to demonstrate OPERABILITY.

proposed Required Actions B.1 and C.2

(See ITS 3.0)

1.17

See ITS 3.0) declare required features inoperable.

LA SALLE - UNIT 2

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Amendment No. 117

ITS Section 3.0 (APPLICABILITY 3.0 SURVEILLANCE REQUIREMENTS (SR) SR30| 4.0.1 Spreadlance Requirements shall be met during the OPERATIONAL CONDITIONS or other conditions Specified for individual Continues for Operation (cos) unless otherwise stated in an individual Surveillance Requirement. Inserts SR 30:2 4.0.2 Each Surveillance Requirement shall be performed within the specified Inserted surveillance interval with a maximum allowable extension not to exceed 25 percent of the specified surveillance interval. Mil \$\frac{4.0.3}{\text{Failure}}\$ to perform a Surveillance Requirement within the allowed surveillance interval, defined by Specification 4.0.2, shall constitute noncompliance with the OPERABILITY requirements for a Limiting Condition for Operation. The time limits of the ACTION requirements are applicable at the time it is identified that a Surveillance Requirement has not been performed. The ACTION requirements may be delayed for up to 24 hours to parmit the completion of the surveillance when the allowable outage time limits of the ACTION requirements are less than 24 hours. Surveillance Requirements do not have to be performed on inoperable equipment. 4.2 CONDITION shall not be made unless the Surveillance Requirements associated with the Limiting Condition for Operation have been performed within the applicable surveillance interval or as otherwise specified. This provision shall not prevent passage through or to OPERATIONAL CONDITIONS as required to comply with ACTION requirements.

4.0.5 Surveillance Requirements for inservice inspection and testing of ASME Code Class 1, 2, & 3 components shall be applicable as follows:

- Inservice inspection of ASME Code Class 1, 2, and 3 components and inservice testing of ASME Code Class 1, 2, and 3 pumps and valves shall be performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10 CFR 50, Section 50.55a(g), except where specific written relief has been granted by the Commission pursuant to 10 CFR 50, Section 50.55a(g)(6)(i).
- Ь. Surveillance intervals specified in Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda for the inservice inspection and testing activities required by the ASME Boiler and Pressure Vessel Code and applicable Addenda shall be applicable as follows in these Technical Specifications:

ASME Boiler and Pressure Vessel Code and applicable Addenda terminology for inservice inspection and testing activities

Weekly Monthly Quarterly or every 3 months Semiannually or every 6 months Every 9 months Yearly or annually

Required frequencies for performing inservice inspection and testing activities

At least once per 7 days At least once per 31 days
At least once per 92 days
At least once per 184 days
At least once per 276 days
At least once per 366 days

ITS SECTION

A.13

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add proposed SR 3.0.5

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Amendment No. 78

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APPLICABILITY

SURVEILLANCE REQUIREMENTS

- 4.0.1 Surveillance Requirements shall be met during the OPERATIONAL CONDITIONS or other conditions specified for individual Limiting Conditions for Operation unless otherwise stated in an individual Surveillance Requirement.
- 4.0.2 Each Surveillance Requirement shall be performed within the specified surveillance interval with a maximum allowable extension not to exceed 25 percent of the specified surveillance interval.
- 4.0.3 Failure to perform a Surveillance Requirement within the allowed surveillance interval, defined by Specification 4.0.2, shall constitute noncompliance with the OPERABILITY requirements for a Limiting Condition for Operation. The time limits of the ACTION requirements are applicable at the time it is identified that a Surveillance Requirement has not been performed. The ACTION requirements may be delayed for up to 24 hours to permit the completion of the surveillance when the allowable outage time limits of the ACTION requirements are less than 24 hours. Surveillance Requirements do not have to be performed on inoperable equipment.
- 4.0.4 Entry into an OPERATIONAL CONDITION or other specified applicable CONDITION shall not be made unless the Surveillance Requirements associated with the Limiting Condition for Operation have been performed within the applicable surveillance interval or as otherwise specified. This provision shall not prevent passage through or to OPERATIONAL CONDITIONS as required to comply with ACTION requirements.

5.5.7 4.0.5 Surveillance Requirements for inservice inspection and testing of ASME Code Class 1, 2, & 3 Comportents shall be applicable as follows:

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See ITS Section

Inservice inspection of ASME Code Class 1. and 3 components and inservice testing of ASME Code Class 1, 2, and 3 pemps and valves shall be performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10 CFR 50, Section 50:55a(g), except where specific written relief has been granted by the Commission pursuant to 10 CFR 50 Section 50:55a(g)(1).

LA.4

5.5.7.a b.

Surveillance intervals specified in Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda for the inservice Inservice testing activities required by the ASME Boiler and Pressure Vessel Code and applicable Addenda shall be applicable as follows in these Technical Specifications:

ASME Boiler and Pressure Vessel Code and applicable Addenda terminology for inservice assection and testing activities

Required frequencies for performing inservice inspection and testing activities

Weekly
Monthly
Quarterly or every 3 months
Semiannually or every 6 months
Every 9 months
Yearly or annually

At least once per 7 days At least once per 31 days At least once per 92 days At least once per 184 days At least once per 276 days At least once per 366 days

Bienially or every 2 years Every-48 months

At least once per 731 days

At least once per 1461 days

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APPLICABILITY (SR)
SURVEILLANCE REQUIREMENTS (Continued)

- c. The provisions of Specification 4.0.2 are applicable to the above required frequencies for performing inservice inspection and testing activities.
- d. Performance of the above inservice inspection and testing activities shall be in addition to other specified Surveillance Requirements.
- e. Nothing in the ASME Boiler and Pressure Vessel Code shall be construed to supersede the requirements of any Technical Specification.
- f. The inservice inspection program for piping identified in NRC Generic Letter 88-01 shall be performed in accordance with the NRC staff positions on schedule, methods, personnel, and sample expansion included in Generic Letter 88-01 or in accordance with alternate measures approved by the NRC staff.

(A. 13)

Moved to ITS)



APPLICABILITY

SURVEILLANCE REQUIREMENTS (Continued)

5.5.7.6 The provisions of Specification 4.0.2 are applicable to the above required frequencies for performing inservice dispection and testing activities.

Performance of the above inservice inspection and testing activities shall be in addition to other specified Surveillance Requirements.

5,5,7,2

Nothing in the ASME Boiler and Pressure Vessel Code shall be construed to supersede the requirements of any Technical Specification.

The inservice inspection program for piping identified in NRC Generic Letter 88-01 shall be performed in accordance with the NRC staff positions on schedule, methods, personnel, and sample expansion included in Generic Letter 88-01 or in accordance with alternate measures approved by the NRC staff.

5.5.7.c The provisions of 5R3.0.3 are applicable to inservice testing activities; and

A.2

3/4.1 REACTIVITY CONTROL SYSTEMS

3/4.1.1 SHUTDOWN MARGIN

LIMITING CONDITION FOR OPERATION

- 3.1.1 The SHUTDOWN MARGIN shall be equal to or greater than:
 - a. 0.38% delta k/k with the highest worth rod analytically determined, or
 - b. 0.28% delta k/k with the highest worth rod determined by test.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 4, and 5.

ACTION:

With the SHUTDOWN MARGIN less than specified:

- a. In OPERATIONAL CONDITION 1 or 2, reestablish the required SHUTDOWN MARGIN within 6 hours or be in at least HOT SHUTDOWN within the next 12 hours.
- b. In OPERATIONAL CONDITION 3 or 4, immediately verify all insertable control rods to be inserted and suspend all activities that could reduce the SHUTDOWN MARGIN. In OPERATIONAL CONDITION 4, establish SECONDARY CONTAINMENT INTEGRITY within 8 hours.

in OPERATIONAL CONDITION 5, suspend CORE ALTERATIONS and other activities that could reduce the SHUTDOWN MARGIN, and insert all insertable control rods within 1 hour. Establish SECONDARY CONTAINMENT INTEGRITY within 8 hours.

See ITS 3.1.1

SURVEILLANCE REQUIREMENTS

- 4.1.1 The SHUTDOWN MARGIN shall be determined to be equal to or greater than specified at any time during the fuel cycle:
 - a. By measurement, prior to or during the first startup after each refueling.
 - b. By measurement, within 500 MWD/T prior to the core average exposure at which the predicted SHUTDOWN MARGIN, including uncertainties and calculation biases, is equal to the specified limit.
 - c. Within 12 hours after detection of a withdrawn control rod that is immovable, as a result of excessive friction or mechanical interference, or is untrippable, except that

SHUTDOWN MARGIN the above required SHUTDOWN MARGIN shall be verified acceptable with an increased allowance for the withdrawn worth of the immovable or untrippable control rod.

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3/4.1 REACTIVITY CONTROL SYSTEMS

3/4,1,1 SHUTDOWN MARGIN

LIMITING CONDITION FOR OPERATION

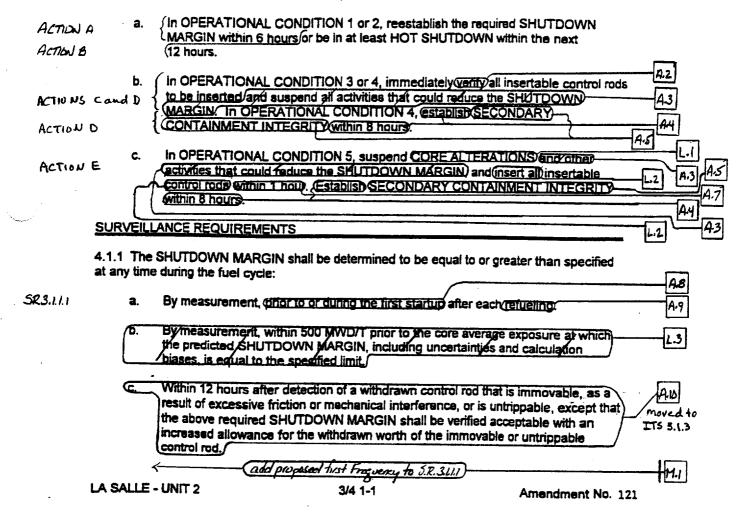
LCO3.1.1

- 3.1.1 The SHUTDOWN MARGIN shall be equal to or greater than:
 - a. 0.38% delta k/k with the highest worth rod analytically determined, or
 - b. 0.28% delta k/k with the highest worth rod determined by test.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 4, and 5.

ACTION:

With the SHUTDOWN MARGIN less than specified:



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3/4.1 REACTIVITY CONTROL SYSTEMS

A,1

3/4.1.1 SHUTDOWN MARGIN

LIMITING CONDITION FOR OPERATION

- 3.1.1 The SHUTDOWN MARGIN shall be equal to or greater than:
 - 0.38% delta k/k with the highest worth rod analytically determined, or
 - b. 0.28% delta k/k with the highest worth rod determined by test.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 4, and 5.

ACTION:

With the SHUTDOWN MARGIN less than specified:

- In OPERATIONAL CONDITION 1 or 2, reestablish the required SHUTDOWN MARGIN within 6 hours or be in at least HOT SHUTDOWN within the next 12 hours.
- b. In OPERATIONAL CONDITION 3 or 4, immediately verify all insertable control rods to be inserted and suspend all activities that could reduce the SHUTDOWN MARGIN. In OPERATIONAL CONDITION 4, establish SECONDARY **CONTAINMENT INTEGRITY within 8 hours.**
- In OPERATIONAL CONDITION 5, suspend CORE ALTERATIONS and other C. activities that could reduce the SHUTDOWN MARGIN, and insert all insertable control rods within 1 hour. Establish SECONDARY CONTAINMENT INTEGRITY within 8 hours.

SURVEILLANCE REQUIREMENTS

4.1.1 The SHUTDOWN MARGIN shall be determined to be equal to or greater than specified at any time during the fuel cycle: .

(See ITS 3.1.1)

Reguland Action At

- By measurement, prior to or during the first startup after each refueling.
- b. By measurement, within 500 MWD/T prior to the core average exposure at which the predicted SHUTDOWN MARGIN, including uncertainties and calculation biases, is equal to the specified limit.

Within Thours after detection of a withdrawn control rod that is immovable, as a result of excessive friction or mechanical interference, or is untrippable except that the above required SHUTDOWN MARGIN shall be verified acceptable with an increased allowance for the withdrawn worth of the immovable or untrippable control rod.

Moved to ITS Chapter 1.0

LA SALLE - UNIT 2

3/4 1-1

Amendment No. 121

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REACTIVITY CONTROL SYSTEM

3/4.1.2 REACTIVITY ANOMALIES

	INITING CONDITION FOR OPERATION
LC03.1.2	3.1.2 The reactivity equivalence of the difference between the actual critical control fod configuration) and the predicted critical control fod configuration shall not exceed 1% delta k/k. Core Kegg
	APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.
	ACTION:
	With the reactivity different by more than 1% delta k/k:
ACTIONA	a. Within W hours perform an analysis to determine and explain the cause of the reactivity difference; operation may continue if the difference is explained and corrected.
ACTION P	b. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours.
	SURVEILLANCE REQUIREMENTS
SR 3.1.2.1	4.1.2 The reactivity equivalence of the difference between the actual (critical control rod configuration) and the predicted efficial control rod (configuration) shall be verified to be less than or equal to 1% delta k/k:
	a. During the first startup following CORE ALTERATIONS and
-	b. At least once per 31 effective full power days during POWER OPERATION.
Co	re kett (M.1)

LA SALLE - UNIT 2

3/4 1-2

Amendment No. 101

3/4.1.3 CONTROL RODS general reorganization > CONTROL ROD OPERABILITY LIMITING CONDITION FOR OPERATION LG3.1.33.1.3.1 All control rods shall be OPERABLE. APPLICABILITY: OPERATIONAL CONDITIONS 1, and 2 GEL DIOPOSES ACTIONS NOTE ACTION: a. With one control rod inoperable due to being immovable, A.5 ACTION A excessive friction or mechanical interference, or known to be untrippable: Within (1) hour: MI Verify that the inoperable control rod, if withdrawn is Action Da) separated from all other inoperable control rods by at least two control cells in all directions. M.2 Disarm(the associated directional control valves either: Electrically. Rokni Leg CCDD) Hydraulically by closing the drive water and exhaust water Actions isolation valves. A. Zune A.4 LA. add proposed Comply with Surveillance Requirement 4.1.1.c. Pured Atowall ACTION E2. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours. Restore the inoperable control rod to OPERABLE status within 48 hours or be in at least NOT SHUTDOWN within the next 12 hours With one or more control rods trippable but inoperable for causes ALTION C D. Add propsed other than addressed in ACTION a, above: ACTIONB 1. If the inoperable control rod(s) is withdrawn: ammediately verify: That the inoperable withdrawn control rod(s) is ALTIOND separated from all other inoperable withdrawn control rod(s) by at least two control cells in all directions, MI and The insertion capability of the inoperable withdrawn M.3 control rod(s) by inserting the control rod(s) at least one notch by drive water pressure within the normal operating range**. Kegvire d Otherwise, insert the inoperable withdrawn control rod(s) and b) disarm the associated directional control valves CRD 1) Mectrically, or Hydraulically by closing the drive water and exhaust LA. water isolation valves Cadd proposed Regured Action CA Note May be rearmed intermittently, under administrative control, to permit testing associated with restoring the control rod to OPERABLE status.

The inoperable control rod may then be withdrawn to a position no further withdrawn than its position when found to be inoperable. MIS LA SALLE - UNIT 2 3/4 1-3 Amendment No. Page 10 of 18

LIMITING CONDITION FOR OPERATION (Continued)

ACTION (Continued) If the inoperable control rod(s) is inserted: ACTION C Within Thour disarm the associated directional control CRD valves either: Electrically, or LA.I Hydraulically by closing the drive water and exhaust water isalation valves. Otherwise, be in at least HOT SHUTDOWN within the next ACTION E b) 12 hours. With more than 8 control rods inoperable, be in at least HOT SHUTDOWN ACTION E C. within 12 hours. With one or more SDV vent or drain lines with one valve inoperable, moved to Isolate the associated line within 7 days. IT53.1.8 Otherwise, be in HOT SHUTDOWN within the next 12 hours. e". With one or more SDV vent or drain lines with both valves inoperable, Isolate the associated line within 8 hours. Otherwise, be in HOT SHUTDOWN within the next 12 hours. SURVEILLANCE REQUIREMENTS (A,7 4.1.3.1.1 The scram discharge volume drain and vent valves shall be demonstrated OPERABLE by: moved to ITS 3.1.8 At least once per 31 days verifying each valve to be open. and At least once per 92 days cycling each valve through at least one complete cycle of full travel. \$\(\text{R3.(.3.2} \)

4.1.3.1.2 When above the low power setpoint of the RVM, all withdrawn control rods not required to have these directional control valves disarmed electrically or hydraulically shall be demonstrated OPERABLE by moving each control rod at least one notch: B.A M.5 At least once per (7) days, and L.5 At that once per 24 hours when any control rod is immovable as a Resuired result of excessive friction or mechanical interference. Action A.3 A.6 May be rearmed intermittently, under administrative control, to permit testing

associated with restoring the control rod to OPERABLE status.

These valves may be closed intermittently for testing under administrative

Separate Action statement entry is allowed for each SDV vent and drain line. **An isolated line may be unisolated under administrative control to allow draining and venting of the SDV.

LA SALLE - UNIT 2

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115 2.L2

add proposed LCO and Applicability

See ITS

LIMITING CONDITION FOR OPERATION (Continued)

ACTION (Continued)

- If the inoperable control rod(s) is inserted: 2.
 - Within, I hour disarm the associated directional control valves either:
 - Electrically, or
 - Hydraulically by closing the drive water and exhaust water isolation valves.
 - Otherwise, be in at least HOT SHUTDOWN within the next 12 hours.
- With more than 8 control rods inoperable, be in at least HOT SHUTDOWN within 12 hours.
- With one or more SDV vent or drain lines with one valve inoperable,

ACTION A

Isolate the associated line within 7 days.

Otherwise, be in HOT SHUTDOWN within the next 12 hours.

e*. With one or more SDV vent or drain lines with both valves inoperable,

ACTION B

Isolate the associated line within 8 hours. Otherwise, be in HOT SHUTDOWN within the next 12 hours. ACTION C

SURVEILLANCE REQUIREMENTS

4.1.3.1.1 The scram discharge volume drain and vent valves shall be demonstrated OPERABLE by:

SR 3.1.8.1 At least once per 31 days verifying each valve to be open", and

5R3.1.R.2 D. At least once per 92 days cycling each valve through at least one complete cycle of full travel.

4.1.3.1.2 When above the low power setpoint of the RWM, all withdrawn control rods not required to have their directional control valves disarmed electrically or hydraulically shall be demonstrated OPERABLE by moving each control rod at least one notch:

3.1.3

- At least once per 7 days, and
- At least once per 24 hours when any control rod is immovable as a result of excessive friction or mechanical interference.

May be rearmed intermittently, under administrative control, to permit testing associated with restoring the control rod to OPERABLE status.

These valves may be closed intermittently for testing under administrative

583.181 Separate Action statement entry is allowed for each SDV vent and drain line. Note 1 to Actions **An isolated line may be unisolated under administrative control to allow draining and venting of the SDV.

Note 26 LA SALLE - UNIT 2 ACTIONS

Note to

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Amendment No. 78

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SURVEILLANCE REQUIREMENTS (Continued)

4.1.3.1.3 All control rods shall be demonstrated OPERABLE by performance of Surveillance Requirements 4.1.3.2; 4.1.3.4, 4.1.3.5, 4.1.3.6 and 4.1.3.7.

A.9

4.1.3.1.4 The scram discharge volume shall be determined OPERABLE by demonstrating the scram discharge volume drain and vent valves OPERABLE at least once per 18 months by verifying that the drain and vent valves:

Maved

 Close within 30 seconds after receipt of a signal for control rods to scram, and B.1.8021

b. Open after the scram signal is reset.

SURVEILLANCE REQUIREMENTS (Continued)

4.1.3.1.3 All control rods shall be demonstrated OPERABLE by performance of Surveillance Requirements 4.1.3.2. 4.1.3.4. 4.1.3.5, 4.1.3.6 and 4.1.3.7.

See ITS

5R3.J.8.3 4.1.3.1.4 The scram discharge volume shall be determined OPERABLE by demonstrating the scram discharge volume drain and vent valves OPERABLE at least once per months by verifying that the drain and vent valves:

Open after the scram signal is reset.

 Close within 30 seconds after receipt of a signal for control rods to scram, and

actual or simulated

TA 3

	REACTIV	ITY CONTROL SYST	EM	A.T			
	CONTRO	L ROD MAXIMUM SC	RAM INSER	TION TIMES			
	LIMITING	CONDITION FOR OF	PERATION		Equival organi	zation)	A-11
	notch pos	he maximum scram in ition 05, <u>based op/de-</u> d 7.0 seconds.					An
	APPLICA	BILITY: OPERATION	AL CONDITIO	ONS 1 and 2.			
	ACTION:						
oi C	With the n	naximum scram inserti	on time of on	e or more contro	I rods exceeding 7.0 s	econds:	
	1. Dec	lare the control rod(s)	with the slow	insertion time in	operable, and		
	whe	om the Surveillance F n operation is continue s in excess of 7.0 seco	ed with three	of Specification or more control r	4.1.3.2.c at least once ods with maximum scr	per 60 days am insertion	<u>r.8</u>
	Otherwise	be in at least HOT SI					
(SURVEILL	ANCE REQUIREMEN	ITS (add	proposed SR3.13	3.4)		A.13
	measurem	e maximum scram ins ent with reactor coolar scram time tests, the	nt pressure gr	reater than or eq	ual to 950 paig and, du	irina sinale	
	a .	For all control rods p POWER following Ci than 120 days,	rior to THER! ORE ALTERA	MAL POWER ex ATIONS or after	ceeding 40% of RATE a reactor shutdown the	D THERMAL at is greater	/See ITS
	b.	For specifically affect modification to the constraint time of those	ontrol rod or c	control rod drive s	owing maintenance on system which could aff	or ect the scram	Coma
	C .	For at least 10% of the operation.	ne control rod	ls, on a rotating b	pasis, at least once per	120 days of	
						1	
	•						
-							
		mal control rod moven	(ent)			1	
l	LA SALLE	- UNIT 2	3/4	4 1-6	Amendr	nent No. 121	

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CONTROL ROD MAXIMUM SCRAM INSERTION TIMES

A.1

LIMITING CONDITION FOR OPERATION

3.1.3.2 The maximum scram insertion time of each control rod from the fully withdrawn position to notch position 05, based on de-energization of the scram pilot valve solenoids as time zero, shall not exceed 7.0 seconds.

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.

ACTION:

With the maximum scram insertion time of one or more control rods exceeding 7.0 seconds:

- 1. Declare the control rod(s) with the slow insertion time inoperable, and
- 2. Perform the Surveillance Requirements of Specification 4.1.3.2.c at least once per 60 days when operation is continued with three or more control rods with maximum scram insertion times in excess of 7.0 seconds.

Otherwise, be in at least HOT SHUTDOWN within 12 hours.

SURVEILLANCE REQUIREMENTS (BOD) M.I SR3-1.4.2 4.1.3.2 The maximum scram insertion time of the control rods shall be demonstrated through 5R 3,1.4.4 measurement with reactor coolant pressure greater than or equal to 950 psig and, during single control rod scram time tests, the control rod drive pumps isolated from the accumulators: For all control rods prior to THERMAL POWER exceeding 40% of RATED THERMAL POWER(following CORE ALTERATIONS) or after a reactor shutdown that is greater Non is . (than 120 days, Surreillance M.2 (pnortoexceeding 40% RTP) Reguliements b. For specifically affected individual control rods following maintenance on or modification to the control rod or control rod drive system which could affect the scram SR3.14.4) insertion time of those specific control rods, and SR3.14.1> (add proposed SR 3.1.4.3) 523.144) For at least 10% of the control rods, on a potating basis) at least once per 120 days of £83.1.4.2> operation.

SR 3.1.4.4 (Except normal control rod movement.

LA SALLE - UNIT 2

3/4 1-6

Amendment No. 121

lage 4 of 6

-12.1

REACTIVITY CONTROL SYSTEM CONTROL ROD AVERAGE SCRAM INSERTION TIMES

LIMITI	NG CONDITION FOR OPERATION	add propo	sed LCo 3.1.4
3.1.3. the fu valve	lly withdrawn position Dased	on time of all OPERABLE control rods on de-energization of the scram pi not exceed any of the following:	10t 7.3
Footwoters) to Table 31.4-1	Position Inserted From Fully Withdrawn	Average Scram Insertion Time (Seconds)	
<0531>	45 39 25 05	0.43/ 0.86 1.93 3/49	

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.

ACTION:

Across With the average scram insertion time exceeding any of the above limits, be in at least HOT SHUTDOWN within 12 hours.

SURVEILLANCE REQUIREMENTS

(4.1.3.3 All control rods shall be demonstrated OPERABLE by scram time testing from the fully withdrawn position as required by Surveillance Requirement 4.1.3.2.

5831.41,5831.4.2,4025831.4.4

4

FOUR CONTROL ROD GROUP SCRAM INSERTION TIMES

LIMITING CONDITION FOR OPERATION

add proposed LCO3.1.4 and Table 3.1.4-1

3.1.3.4 The average screen insertion time, from the fully withdrawn position, for the three fastest control rads in each group of four control rads arranged in a two-by-two array based on deenergization of the screen pilot valve solenoids as time zero, shall not exceed any of the tollowing:

7

footnote(c) to To ble

31.41

Position Fully	Inserted Withdrawn	From
45	\	

25

Average Scram Insertion Time (Seconds)

0.45 0.92 2.06

0.92 2.06 3.70

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.

ACTION:

 A_{cTiD} With the average scram insertion times of control rods exceeding the above limits:

14.3

Declare the control rods with the slower than average scram insertion times inoperable until an analysis is performed to determine that required scram reactivity remains for the slow four control rod group, and

 Perform the Surveillance Requirements of Specification 4.1.3.2.c at least once per 60 days when operation is continued with an average scram insertion time(s) in excess of the average scram insertion time limit.

Otherwise be in at least HOT SHUTDOWN within the next 12 hours.

SURVEILLANCE REQUIREMENTS

(4.1.3.4 All control rods shall be demonstrated OPERABLE by scram time testing from the fully withdrawn position as required by Surveillance Requirement 4.1.3.2.

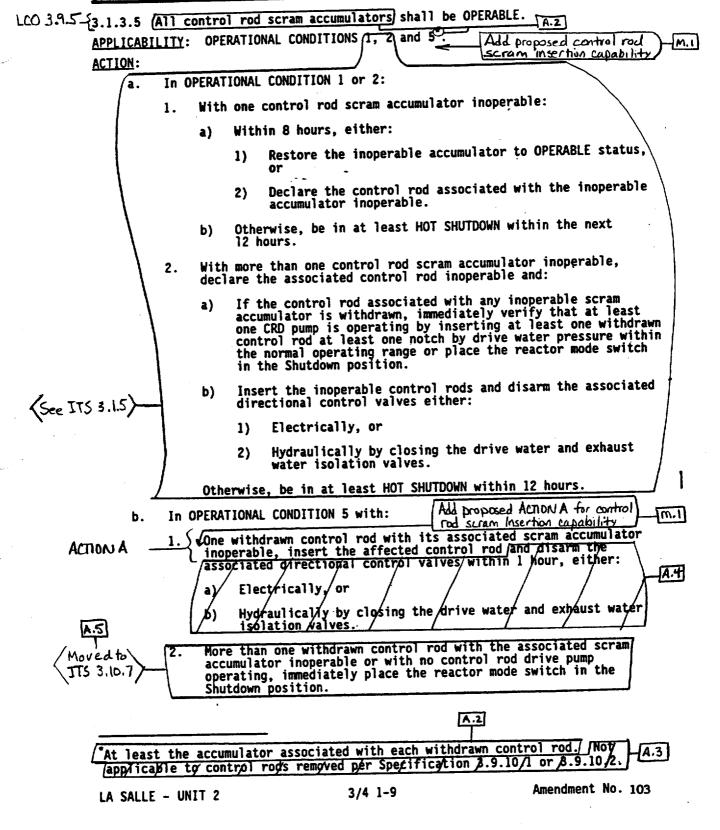
SR3,1.4.1, SR3,1.4.2, SR3,1.4.4

CONTROL ROD SCRAM ACCUMULATORS

LIMITING CONDITION FOR OPERATION

$L_{0,3,1,5}^{2}$ 3.1.3.5 All control rod scram accumulators shall be OPERABLE. $A.2$
APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 5° moved to
ACTION: TTS 3.10.7
ACTION A 1. With one control rod scram accumulator inoperable. and reactorpressure
a) Within 8 hours, either:
1) Restore the inoperable accumulator to OPERABLE status (A, 4)
add proposed Required Action A.D.
2) Declare the control rod associated with the inoperable (L.I) accumulator inoperable.
b) Otherwise, be in at Teast HOT SHUTDOWN within the next A.5
ACTIMES 2. With fore than one control rod scram accumulator inoperable,
Band c With fore than one control rod scram[accumulator inoperable, declare the associated control rod inoperable and: within hours add proposed becomed Action B. 2.1)
a) (If the control rod associated with any inoperable scram
a) (If the control rod associated with any inoperable scram Required Action) (accumulator is withdrawn, ammediately verify that at least one CRD pump is operating by inserting at least one withdrawn one CRD pump is operating by inserting at least one withdrawn
the normal operating range or place the reactor mode switch
ACTION D - (In the Shutdown position.
Insert the inoperable control rods and disarm the associated directional control valves either:
1) Electrically, or
 Hydraulically by closing the drive water and exhaust water isolation valves.
Otherwise, be in at reast HOT SHUTDOWN within 12 hours.
b. In OPERATIONAL CONDITION 5 with:
1. One withdrawn control rod with its associated scram accumulator moved to inoperable, insert the affected control rod and disarm the associated directional control valves within 1 hour either.
a) Electrically, or ITS 3.10.
b) Hydraulically by closing the drive water and exhaust water / isolation valves.
2. More than one withdrawn control rod with the associated scram accumulator inoperable or with no control rod drive pump operating, immediately place the reactor mode switch in the Shutdown position.
At least the accumulator associated with each withdrawn control rod. Not applicable to control rods removed per Specification 3.9.10.1 or 3.9.10.2

LIMITING CONDITION FOR OPERATION



2.

Λ.

(See ITS 3.9.5)

(See IB3.15)

11.1

(See Its 395>

CONTROL ROD SCRAM ACCUMULATORS

LIMITING CONDITION FOR OPERATION

3.1.3.5 All control rod scram accumulators shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 5%.

ACTION:

a. In OPERATIONAL CONDITION 1 or 2:

- 1. With one control rod scram accumulator inoperable:
 - a) Within 8 hours, either:
 - Restore the inoperable accumulator to OPERABLE status, or
 - Declare the control rod associated with the inoperable accumulator inoperable.
 - b) Otherwise, be in at least HOT SHUTDOWN within the next 12 hours.

With more than one control rod scram accumulator inoperable, declare the associated control rod inoperable and:

- a) If the control rod associated with any inoperable scram accumulator is withdrawn, immediately verify that at least one CRD pump is operating by inserting at least one withdrawn control rod at least one notch by drive water pressure within the normal operating range or place the reactor mode switch in the Shutdown position.
- b) Insert the inoperable control rods and disarm the associated directional control valves either:
 - 1) Electrically, or
 - Hydraulically by closing the drive water and exhaust water isolation valves.

Otherwise, be in at least HOT SHUTDOWN within 12 hours.

b. (In OPERATIONAL CONDITION 5 with)

One withdrawn control rod with its associated scram accumulator inoperable, insert the affected control rod and disarm the associated directional control valves within 1 hour, either:

LC03.10.7.f and ACTION B

- a) Electrically, or
- b) Hydraulically by closing the drive water and exhaust water isolation valves.

•

More than one withdrawn control rod with the associated soram accumulator insperable or with no control rod drive pump operating, immediately place the reactor mode switch in the Shutdown position

and ACHONE

LCD 3-10.7. F

At least the accumulator associated with each withdrawn control rod. Not applicable to control rods removed per Specification 3.9.10.1 or 3.9.10.2.

LA SALLE - UNIT 2

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Amendment No. 103

Page 4 of 4

SURVEILLANCE REQUIREMENTS

4.1.3.5 Each control rod scram accumulator shall be determined OPERABLE:

At least once per 7 days by verifying that the indicated pressure is greater than or equal to 940 psig. unless the control rod is inserted and disarmed or scrammed.

SURVEILLANCE REQUIREMENTS

4.1.3.5 (Each control rod scram accumulator shall be determined OPERABLE:

At least once per 7 days by verifying that the indicated pressure is greater than or equal to 940 psig unless the control rod is inserted and disamped or scrammed.

> SR 3.9.5.1 M-1 Add proposed

LA SALLE - UNIT 2

3/4 1-10

Amendment No. 103

CONTROL ROD DRIVE COUPLING

LIMITING CONDITION FOR OPERATIO	N
---------------------------------	---

\$83.1.3.5 3.1.3.6 (All control rods shall be coupled to their drive mechanisms.) APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 5 ACTION: In OPERATIONAL CONDITIONS 1 and 2 with one control rod not coupled to ACTIONC its associated drive mechanism: L10 Within 2 hours, either: A.15 If permitted by the RWM insert the central rod drive a) mesoanism to accomplish recoupling and verify recoupling by withdrawing the control rod, and: Observing any indicated response of the nuclear instrumentation, and Demonstrating that the bontrol rod will not go to the Lill overtravel position. If recoupling is not accomplished on the first attempt or, if ACTION C not permitted by the RWM then until permitted by the RWM declare the control rod inoperable and insert the control rod and disarm the associated directional control valves 695 either) LA.I 1) Electrically, or Hydraulically by closing the drive water and exhaust water ishlation valves 49 ACTION E 2. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours. In OPERATIONAL CONDITION 5* with a withdrawn control rod not coupled to Its associated drive mechanism, within 2 hours, either: Insert the control rod to accomplish recoupling and verify recoupling by withdrawing the control rod and demonstrating that the control rod will not go to the overtravel position, or If recoupling is not accomplished, insert the control rod 2. and disarm the associated directional control valves** either:

> "At least each withdrawn control rod. Not applicable to control rods removed per Specification 3.9.10.1 or 3.9.18.2. May be rearmed intermittently, under administrative control, to permit testing associated with restoring the control rod to OPERABLE status.

Hydraulically by closing the drive water and exhaust water

LA SALLE - UNIT 2

3/4 1-11

Electifically, or

isolation valves.

a)

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SURVEILLANCE REQUIREMENTS

\$23.03.5 4.1.3.6 A control rod shall be demonstrated to be coupled to its drive mechanism by abserving any indicated response of the nuclear instrumentation while withdrawing the control rod to the fully withdrawn position and then verifying that the control rod drive does not go to the overtravel position:

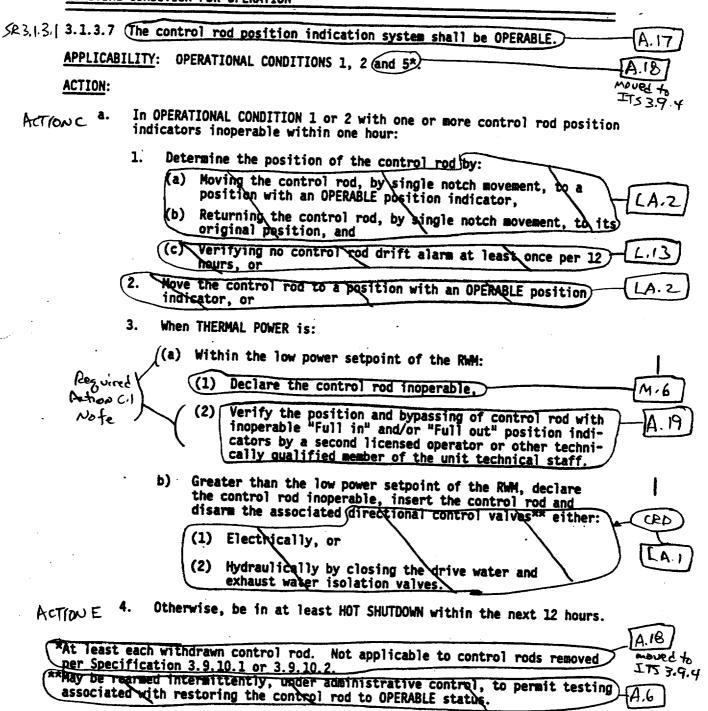
L:12

- a. Prior to reactor criticality after completing CORE ALTERATIONS that could have affected the control rod drive coupling integrity,
- b. Anytime the control rod is withdrawn to the "Full out" position in subsequent operation, and
- c. Following maintenance on or modification to the control rod or control rod drive system which could have affected the control rod drive coupling integrity.



CONTROL ROD POSITION INDICATION

LIMITING CONDITION FOR OPERATION



REACTIVITY CON	FROI SYSTEM		ITS 3.9.4	4
		A.V		
<u> </u>	SITION INDICATION	("full in")	-(Channel)	
LIMITING CONDIT	TION FOR OPERATION	7441111	-(Crannel)	
LCO 3.9.4 -{3.1.3.7 The co	entrol rod/position i	ndication system:	shall be OPERABLE.	L-1
APPLICABILITY:	OPERATIONAL CONDITION	DNS 1, 2 and 500	M.1)	•
ACTION:				
a. In OP	ERATIONAL CONDITION : ators inoperable with	l or 2 with one or	r more control rod pos	ition
1.	Determine the position	on of the control	rod by:	
	(a) Moving the conti position with ar	rol rod, by single n OPERABLE positio	e notch movement, to a on indicator,	
	(b) Returning the co original position	ontrol rod, by sin	ngle notch movement, t	o its
	(c) Verifying no cor hours, or	itrol rod drift al	arm at least once per	12
2.	Move the control rod indicator, or	to a position wit	th an OPERABLE position	n .
3.	When THERMAL POWER is	-		
	(a) Within the low p	ower setpoint of	the RWM:	1
·	(1) Declare the	control rod inop	erable,	
	inoperable cators by a	"Full in" and/or second licensed	ssing of control rod we selve the selve to the selve technical staff technical staff	ndi- hni-
/ See	the control rod	inoperable, inser	nt of the RWM, declared the control rod and control valves** eith	
· (ITS 3.1.3)	(1) Electricall	y, or		
	(2) Hydraulical exhaust wat	ly by closing the er isolation valv	drive water and es.	
4. (Otherwise, be in at 1	east HOT SHUTDOWN	within the next 12 ho	ours.

/*At least each withdrawn control rod. Not/applicable to control rods removed A.2

Der specification/3.9/10/1 of 3.9.10/2.

**May be rearmed intermittently, under administrative control, to permit testing associated with restoring the control rod to OPERABLE status.

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3/4 1-13

Amendment No. 73

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

b. In OPERATIONAL CONDITION 5° with a withdrawn control rod position indicator inoperable, move the control rod to a position with an OPERABLE position indicator or insert the control rod. Mayed ITS

L.14

SURVEILLANCE REQUIREMENTS

 $\leq 23.1/3.1$: 4.1.3.7 The control rod position indication system shall be determined OPERABLE by verifying:

 At least once per 24 hours that the position of each control rod is indicated,

b. That the indicated control rod position changes during the movement of the control rod drive when performing Surveillance Requirement 4.1.3.1.2, and

c. That the control rod position indicator corresponds to the control rod position indicated by the "Full out position indicator when performing Surveil Nance Requirement 4.1.3.6b.

d. That the control rod position indicator corresponds to the control rod position indicated by the "Full in" position indicator:

- 1. Prior to each reactor startup, and
- 2. Each time control rod is fully inserted.

At least each withdrawn control rod not applicable to control rods removed per Specifications 3.9.10.1 or 3.9.10.2.

Moved to

ITS 3.9.4

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Amendment No. 78

lige 18 of 18

LIMITING CONDITION FOR OPERATION (Continued)	
ACTION: (Continued) [m.1] [full-in] [L.1]	
ACTIONA b. In OPERATIONAL CONDITION 5 with a withdrawn control rod position with an OPERABLE position indicator or insert the control rod.	
SURVEILLANCE REQUIREMENTS LM.1 SURVEILLANCE REQUIREMENTS	
5R39.4.1 4.1.3.7 The control rod position indication (Figure 1) (Channel)	
a. At least once per 24 hours that the position of each control rod is indicated,	
b. That the indicated control rod position changes during the movement of the control rod drive when performing Surveillance Requirement 4.1.3.1.2, and	
c. That the control rod position indicator corresponds to the control rod position indicated by the "Full out" position indicator when performing Surveillance Requirement 4.1.3.6b.	
d. That the control rod position indicator corresponds to the control rod position indicated by the "Full in" position indicator:	ij
1. Prior to each reactor startup, and 2. Each time a control rod is fully inserted.	

At least each withdrawn control rod not applicable to/control rods removed per specyfications 3.9.10.1 or 3.9.10/2.

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Amendment No. 78

CONTROL ROD DRIVE HOUSING SUPPORT

LIMITING CONDITION FOR OPERATION

3.1.3.8 The control rod drive housing support shall be fn place.

APPLICABILITY OPERATIONAL CONDITIONS 1, 2 and 3.

ACTION:

With the control rod drive housing support not in place, be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the following 24 hours.

SURVEILLANCE REQUIREMENTS

4.1.3.8 The control rod drive housing support shall be verified to be in place by a visual inspection prior to startup any time it has been disassembled or when maintenance has been performed in the control rod drive housing support area.

3/4 1-15

11.A

3/4.1.4 CONTROL ROD PROGRAM CONTROLS

ROD WORTH MINIMIZER

LIMITING CONDITION FOR OPERATION

LC03.3.2.1 Table 33.21-13.1.4.1 The rod worth minimizer (RWM) shall be OPERABLE. Function 2 APPLICABILITY: OPERATIONAL CONDITIONS 1 and 28, when THERMAL POWER is less than or equal to 10% of RATED THERMAL POWER, the minimum allowable low power Add proposed Required Actions C.2.1.1 setpoint. ana ciz.1.2 ACTION: Conditions C+DJ= With the RWM inoperable, verify control rod movement and compliance with the prescribed control rod pattern by a second licensed operator Required Actions or other technically qualified member of the unit technical staff who is present at the reactor control console. Otherwise, control rod citiz and Oil movement may be only by actuating the manual scram or placing the reactor mode switch in the Shutdown position. Required Action With an inoperable control rod(s), OPERABLE control rod movement may continue by bypassing the inoperable control rod(s) in the RWM provided that: 5R 3.3.2.1.91 The position and bypassing of inoperable control rods is verified by a second licensed operator or other technically qualified member of the unit technical staff, and There are not more than 3 inoperable control rows in any RM group. The provisions of Specification 3.0.4 are not applicable, with the exception that control rod withdrawal for reactor startum shall not begin with the RMM inoperable. L.Z SURVEILLANCE REQUIREMENTS 4.1.4.1 The RWM shall be demonstrated OPERABLE: SR 3,3.7.1.2 In OPERATIONAL CONDITION 2 prior to withdrawal of control rods for AND NOTE the purpose of making the reactor critical, and in OPERATIONAL CONDITION 1 prior to reaching 10% of RATED THERMAL POWER when reducing 583,32,13 AND NOTE THERMAL POWER, by verifying proper annunciation of the selection LA.2 error of at least one out-of-sequence control rod. PEntry into OPERATIONAL CONDITION 2 and withdrawal of selected control rods is NOTE TO M.3 permitted for the purpose of determining the OPERABILITY of the RWM prior to SR3.3.2.1.2 withdrawal of control rods for the purpose of bringing the reactor to criticality.

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Amendment No. 73

ITS 3,3,2,1

3/4.1.4 CONTROL ROD PROGRAM CONTROLS



ROD WORTH MINIMIZER

SURVEILLANCE REQUIREMENTS (Continued)

SR 3.3.2.1.2 b.	In OPERATIONAL CONDITION 2 prior to withdrawal of control rods for the purpose of making the reactor critical, by verifying the rod block function by demonstrating inability to withdraw an out-of-sequence control rod.
SR 3,3,2,1,3 c.	In OPERATIONAL CONDITION 1 within one hour after RMM automatic

SR 3.3.2.1.3 c. In OPERATIONAL CONDITION 1 within one hour after RMM automatic Initiation when reducing THERMAL POWER, by varifying the rod block function by demonstrating inability to withdraw an out-of-sequence LA.2

Sk 3.3.2.18 d. By verifying the control rod patterns and sequence input to the RMM computer is correctly loaded following any loading of the program into the computer.

Add proposed SR 3, 3, 2, 1, 6 - M.4

A.I.

ITS 3.3.2.1

ROD BLOCK MONITOR

LIMITING CONDITION FOR OPERATION

LCO 3.3.2.1

TABLE 332.1-1 3.1.4.3 Both rod block monitor (RBH) channels shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITION 1, when THERMAL POWER is greater than or equal to 30% of RATED THERMAL POWER.

and no peripheral (Control rod is selected) A.2

ACTION:

ACTION B

With one RBM channel inoperable, verify that the reactor is not operating on a NIMITING CONTROL ROO PATTERN and restore the inoperable RBM channel to OPERABLE status within 24 hours; otherwise, place the inoperable rod block monitor channel in the tripped condition within the next hour.

Action B b. With both RBM channels inoperable, place at least one inoperable rod block monitor channel in the tripped condition within one hour.

SURVEILLANCE REQUIREMENTS

4.1.4.3 Each of the above required RBM channels shall be demonstrated OPERABLE by performance of a:

SR 3.3.2.1.1 SR 3.3.2.1.4

a. CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION at the frequencies and for the OPERATIONAL CONDITIONS specified in Table 4.3.6-1.

B. CHANNEL PURCTIONAL TEST prior to control rod withdrawal when the reactor is operating on a LIMITING CONTROL ROD PATTERN.

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REACTIVITY CONTROL SYSTEM
3/4.1.5 STANDBY LIQUID CONTROL SYSTEM
LIMITING CONDITION FOR OPERATION
LLO 3.1.7 3.1.5 The standby liquid control system shall be OPERABLE. APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 5
ACTION:
a. In OPERATIONAL CONDITION 1 or 2:
ACTION A 1. With one motor operated suction valve, one pump and/or one explosive valve inoperable, restore the inoperable suction valve, pump and/or explosive valve to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours.
ACTION B 2. With the standby liquid control system inoperable, restore the system to OPERABLE status within 8 hours or be in at least HOT SHUTDOWN within the next 12 hours.
b. In OPERATIONAL CONDITION 5*:
L With one motor operated suction valve, one pump and/or one explosive valve inoperable, restore the inoperable suction valve, pump and/or explosive valve to OPERABLE status within 30 days or insert all insertable control rods within the next hour.
2. With the standby liquid control system inoperable, insert all insertable control rods within 1 hour.
SURVEILLANCE REQUIREMENTS
4.1.5 The standby liquid control system shall be demonstrated OPERABLE:
a. At least once per 24 hours by verifying that;
Sea.17.2 solution are within the limits of Figures 3.1.5-1 and 3.1.5-2, and
2. The heat tracing clocult is APERABLE by verifying the indicated temperature to be 2 MPF on the local indicator. [A.] [A.]
(of the pump suction piping up to the storage touk outlet valves are)
With any control row withdrawn. Not applicable to control rods removed per

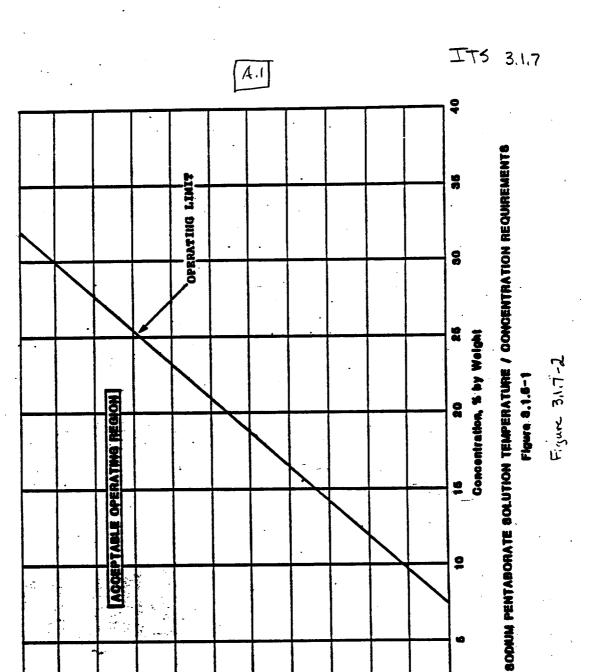
3/4 1-19

REACTIVITY CONTROL SYSTEM

LA SALLE - UNIT 2

SURVEILLANCE REQUIREMENTS (Continued)

b. At 1	least once per :	31 days by;	·	
1.	Starting both to the test to	pumps and recirculating dem	mineralized water	12,2
5R31.7.4 2	Verifying the	continuity of the explosive	e charge.	
5R3117.5	Determining to within the li	hat the concentration of bo mits of Figure 3.1.5-2 by c	ron in solution is hemical analysis.*	
SR 3-1.7.6 4.	Verifying the sealed or oth position?	t each valve in the flow parervise secured in position,	th that is not locked is in its correct or can be aligned correct positi	to the
c. At	least once per	Months during shutdown b	y; L.3	A.3
5R 3,1.7.8	from the pump	e of the standby liquid con explosive valve, and verify is to the reactor pressure v peralized value into the re-	ring that a flow pach ressel is available by	
Definition of STAGGEDEDTEST	laber bee	harge for the emplosive valued batch as the one fired an certified by having one of injection loops shall be to	sted in GB sonths.	-0.1]
5831177	the minimum than or equal	g that when tested pursuant flow requirement of 41.2 gpm 1 to 1220 psig is met.	to Specification 4.0. a at a pressure of gro	5, eater
1.4	not ectuate	g that the pump relief falve 1400 psig and verifying that during recirculation to the	test tank.	<u> </u>
storage tank outlet valves are SR3.17.9	tank and the	ing that all heat traced pi traction (edge) is unblocked tank to the actor operated Tushing the piping with to	austien valve and the	LA.3
(C	واف معالمهالسمين	g that the storage tank hea me expected temperature rise solution in the storage tan id-	TOP LIKE SUUTIES	tank outlet
SK3117.5 solution or	when the solut	erformed anytime water or bo tion temperature drops below	THE THE OF THE	3.1.5-1. {A5}
marthis test been found (overlapping	shall also be p to be inoperat ng or total flo	performed whenever the heat ole and may be performed by weath steps such that the	any series of sequent entire flow path is	Wala
IA SALIF - I		3/4 1-20	\ <u></u>	4.6



LA SALLE - UNIT 2

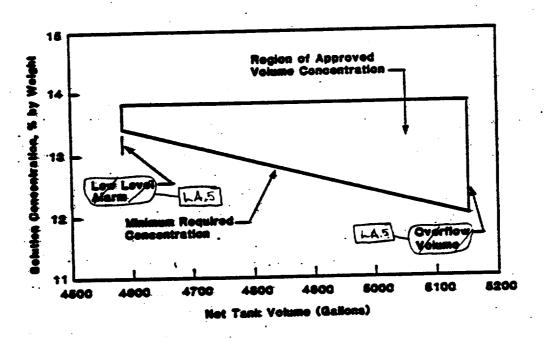
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٤.

2

3 ·

[A.1]



SCORUM PENTABORATE (Na₂8₁₀0₁₆ 10H₂0) ROLUME/CONCENTRATION REQUIREMENTS

Figure 3.1.7-1

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3/4.1.6 ECONOMIC GENERATION CONTROL SYSTEM

LIMITING CONDITION FOR OPERATION

- 3.1.6 The economic generation control system may be in operation with automatic flow control provided that:
 - a. Core Now is \geq 65% of rated core flow, and
 - b. THERMAL NOWER is greater than or equal to 20% of RATED THERMAL POWER.

APPLICABILITY: OPERATIONAL CONDITION 1.

ACTION: With core flow less than 65% of rated core flow or THERMAL POWER less than 20% of RATED THERMAL POWER, cease operation under the economic generation control system.

SURVEILLANCE REQUIREMENTS

- 4.1.6 The economic generation control system shall be demonstrated OPERABLE by:
 - a. Calculating current efficiency and, using a nominal curve of efficiency versus THERMAL POWER, verifying that the EGC lower MW setpoint will maintain core flow > 65% of rated core flow and THERMAL POWER > 20% of RATED THERMAL ROWER:
 - 1. Prior to entry into EGC operation, and
 - At least once per 12 hours while operating in EGC.
 - b. Verifying that current core flow is > 65% of rated core flow and NHERMAL POWER is > 20% of RATED THERMAL POWER:
 - 1. Prior to entry into EGC operation, and
 - 2. At least once per 12 hours while operating in EGC.

1R.1

	3/4.2 POWER DISTRIBUTION LIMITS A.I.
	3/4.2.1 AVERAGE PLANAR LINEAR HEAT-GENERATION RATE
	LIMITING CONDITION FOR OPERATION
LCD 3.2.1	3.2.1 All AVERAGE PLANAR LINEAR HEAT GENERATION RATES (APLHGRs) shall not exceed the limits specified in the CORE OPERATING LIMITS REPORT.
	APPLICABILITY: OPERATIONAL CONDITION 1) when THERMAL POWER is greater than or equal to 25% of RATED THERMAL POWER.
	ACTION:
ACTION A -	With an APLHGR exceeding the limits specified in the CORE OPERATING LIMITS REPORT, initiate corrective action within 15 minutes and restore APLHGR to within the required limits within 2 hours or reduce THERMAL POWER to less than (25% of RATED THERMAL POWER within the next 4 hours.
	SURVEILLANCE REQUIREMENTS
	4.2.1 All APLHGRs shall be verified to be equal to or less than the limits specified in the CORE OPERATING LIMITS REPORT.
5R 3.2.1,1	a. At least once per 24 hours. (≥25%)
	b. Within 12 hours after completion of a THERMAL POWER (increase of at) least 152 of RATED THERMAL POWER, and
	c. Initially and at least once per 12 hours when the reactor is operating with a LIMITING CONTROL ROD PARTERN for APUMGR.

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Amendment No. 116

[I.A POWER DISTRIBUTION LIMITS 3/4.2.3 MINIMUM CRITICAL POWER RATIO LIMITING CONDITION FOR OPERATION 3.2.3 The MINIMUM CRITICAL POWER RATIO (MCPR) shall be equal to or greater LC03.2.2 than the MCPR limit specified in the CORE OPERATING LIMITS REPORT. APPLICABILITY: OPERATIONAL CONDITION I when THERMAL POWER is greater than or equal to 25% of RATED THERMAL POWER. **ACTION** With MCPR less than the applicable MCPR limit as determined for one of the conditions specified in the CORE OPERATING LIMITS REPORT: ACTION A 1. Initiate corrective action within 15 minutes, and 2. Restore MCBR to within the required limit within 2 hours LA.I ACTION B 3. Otherwise, reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within the next 4 hours. When operating in a condition not specified in the CORE OPERATING LIMITS REPORT / reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within 4 hours. ACTION A. ACTION B-

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POWER DISTRIBUTION LIMITS

3/4.2.3 MINIMUM CRITICAL POWER RATIO

LIMITING CONDITION FOR OPERATION

1.00 3.3.4.1.b

3.2.3 The MINIMUM CRITICAL POWER RATIO (MCPR) shall be equal to or greater than the MCPR limit specified in the CORE OPERATING LIMITS REPORT.

APPLICABILITY:

OPERATIONAL CONDITION 1 WORD THERMAL POWER is greater than or equal to 25% of RATED THERMAL POWER.

A.3

ACTION

- a. With MCPR less than the applicable MCPR limit as determined for one of the conditions specified in the CORE OPERATING LIMITS REPORT:
 - 1. Initiate corrective action within 15 minutes, and
 - 2. Restore MCPR to within the required limit within 2 hours.
 - 3. Otherwise, reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within the next 4 hours.

Required b. Action C.Z When operating in a condition not specified in the CORE OPERATING LIMITS REPORT, reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within 4 hours.

Add Required Action C.I.

1.2

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tA2

LA3

POWER DISTRIBUTION LIMITS 3/4.2.3 MINIMUM CRITICAL POWER RATIO

SURVEILLANCE REQUIREMENTS

4.2.3.1 MCPR shall be determined to be equal to or greater than the applicable MCPR limit specified in the CORE OPERATING LIMITS REPORT. SR3.2.2.1

- At least once per 24 hours,
- (25%) Within 12 hours after completion of a THERMAL POWER (DCTEASE of at) b.

A.1

Initially and at least once per 12 hours when the reactor is operating with a LIMITING CONTROL ROD PAPTERN for MCPR.

5R3.2.2.2

- The applicable MCPR limit shall be determined from the COLR based on: 4.2.3.2
 - Technical Specification Scram Speed (TSSS) MCPR limits, or
 - Naminal Scram Speed (NSS) MCPR limits if scram insertion times determined per surveillance 4.1/3.2 meet the NSS insertion times identified in the COLR. b.

Within 72 hours of completion of each set of scram testing, the results will be compared against the nominal scram speed (NSS) insertion times specified in the COVR, to verify the applicability of the transient analyses. Prior to initial scram time testing for an operating cycle, the MCPR operating limits used shall be based on the lechnical Specification Scram Speeds (TSSS).

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,	PUWER DISTRIBUTION LIMITS	
•	3/4.2.4 LINEAR HEAT GENERATION RATE	
and the state of t		
	LIMITING CONDITION FOR OPERATION	
LCO 3.2.3	3.2.4 The LINEAR HEAT GENERATION RATE (LHGR) shall not exceed the limits specified in the CORE OPERATING LIMITS REPORT.	1
	APPLICABILITY: OPERATIONAL CONDITION 1) when THERMAL POWER is greater than or equal to 25% of RATED THERMAL POWER.	<u>A2</u>
	ACTION:	
	(With the LHGR of any fuel rod exceeding the limit, Initiate corrective action-	LA-1
ACTION A	(a) In 15 minutes and restore the LHGR to within the limit within 2 hours for	
ACTION B	reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within the next	
		:
		•
	SURVEILLANCE REQUIREMENTS	
SR 3.2.3.1	4.2.4 LHGR's shell be determined to be equal to or less than the limit:	
	a. At least once per 24 hours,	
	(>25%)	
	b. Within 12 hours after COMPACTION OF THERMAL POWER (DETERMED THERMAL POWER, and	<u></u>
	c. Intigly and at least once per/12 hours when the reactor is operating on a LIMITING CONTROL ROD PATTERN for LHGR.	

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3/4.3.1 REACTOR PROTECTION SYSTEM INSTRUMENTATION

LIMITING C	ONDITION	FOR	OPERATION
------------	----------	-----	-----------

L(O 3.3.1.) 3.3.1 As a minimum, the reactor protection system instrumentation channels shown in Table 3.3.1-1 shall be OPERABLE with the REACTOR PROTECTION SYSTEM RESPONSE TIME as shown in Table 3.3.1-2. SE 33.1.1.17 3

As shown in Table 3.3.1-1.

ACTION: Add proposed ACTIONS NOTE 1-12.2

With one channel required by Table 3.3.1-1 inoperable in one of more Functional Mnits place the inoperable channel and/or that trip system ACTION A in the tripped condition within 12 hours. [A.2

Actions A,B Jb. With two or more channels required by Table 3.3.1-1 inoperable in one or more Functional Units: and C

Within one hour, verify sufficient channels remain OPERABLE or ACTION C tripped to maintain trip capability in the Functional Unit, and

within 6 hours, place the inoperable channel(s) in one trip system and/or that trip system in the tripped condition, and

Within 12 hours, restore the inoperable channels in the other trip system to an OPERABLE status or tripped. [A.2] ACTION A

ACTION D Otherwise, take the ACTION required by Table 3.3.1-1 for the Functional Unit.

SURVEILLANCE REQUIREMENTS

Note 1 to Surveillance

(4.3.1.1 Each reactor protection system instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL REQUIREMENTS FUNCTIONAL TEST and CHANNEL CALIBRATION operations for the OPERATIONAL CONDITIONS and at the frequencies shown in Table 4.3.1.1-1.

SA 33.1.15 4.3.1.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all channels shall be performed at least once per (4) months.

SR 3.3.1.1.17

(4.3.1.3 The REACTOR PROTECTION SYSTEM RESPONSE TIME of Gath reactor trip functional unit shown in Table 3.3.1-2 shall be demonstrated to be within its limit at least once per (4) months.4 Each test shall include at least one channel per trip system such that all channels are vested at least once every n times 18 months where N is the total number of redundant channels in a specific reactor trip system. Add proposed Note 4)-1A.3

An insperable channel or trip system need not be placed in the tripped Condition where this would cause the Trip Function to occur. In these cases, if the inoperable channel is not restored to OPERABLE status within the required time, the ACTION required by Table 3.3.1-1 for the Functional Unit shall be taken. ACTION D

This ACTION applies to that trip system with the most imperable channels; if both trip systems have the same number of inoperable channels, the ACTION can be applied to either trip system.

Addressed by Definition of STAGGERED TEST BASIS, Note 3, and DOC A.S

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Table 3.3.1.1-1

IABLE 3.3.1-1

REACTOR PROTECTION SYSTEM INSTRUMENTATION Note 2 to Surveillance REQUIREMENTS APPLICABLE MINIMUM OPERARIE REQUIREMENTS				
FUNCTIONAL UNIT C	PPLICABLE PERATIONAL ONDITIONS	MINIMUM OPERABLE CHANNELS PER IRIP SYSTEM (a)	ACTION	
1.a {1. Intermediate Range Monitors: a. Neutron Flux - High	2	3 6		
1.6 \{ b. Inoperative Add proposed Noted to Table 3.3.1.1-1	(a) 55 (A 4)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	27-(L.1) 13-(L.1) 13-(L.1)	
2.a 2. Average Power Range Monitor: LA.5 a. Neutron Flux - High, Setdown	(3)	2	61 3-1-3	
2.b - b. Flow Biased Simulated Thermal Power-Upscale	1	2 2	32 <u>1</u> 4 F 4	
2.c \longrightarrow c. Fixed Neutron Flux-High 2.1 \longrightarrow d. Inoperative	1	2	F4	
2.d —{d. Inoperative	1, 2	2 ? / /	9-L.3 21-L.3	
3. Reactor Vessel Steam Dome Pressure - High	1, 2 ¹ A.H	2 (رب <u>ئ</u> 1 1	
4, 4. Reactor Vessel Water Level - Low, Level 3	1, 2	2	3, 1	
5 {5. Main Steam Line Isolation Valve - Closure	INT HA.G	(B) A.5	F 4	
6. DELETED				

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TABLE 3.3.1-1 (Continued)

REACTOR PROTECTION SYSTEM INSTRUMENTATION

ACTION STATEMENTS

ACTION 6	ACTION 1 -	Be in at least HOT SHUTDOWN within 12 hours.
	ACTION 2 -	reactor mode switch in the Shutdrewn position within 1 hour.
Аспын	ACTION 3 -	insertable control rods within one hour Immediately (Initiate action to fully) AB
ACTION F	[ACTION 4 -	Be in at least STARTUP within 6 hours.
	ACTION 5 -	DELETED in core cells containing one or more fuel assembles.
ACTIONE	ACTION 6 -	Initiats/a reduction/in THERMAL/POWER/within 15/minutes and reduce THERMAL POWER to less than 25% of RATED THERMAL POWER, within Phours.
	ACTION 7 - Z	Verify all insertable control rods to be inserted within 1 hour
	ACTION 8 -	Cock the/reactor mode switch in the/Shutdown position within hour
ACTION H	ACTION 9 -	Suspend all/operations involving CORE/ALTERATIONS/and insert all insertable control rods(and loci/the reactor/mode switch/in the SHUZDOWN) L.2 position within/1 hour.
		Immediately A8
	(In case cells containing One or more fuel assemblies. In that eaction to fully A.B.

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TABLE 3.3.1-1 (Continued)

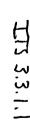
REACTOR PROTECTION SYSTEM INSTRUMENTATION

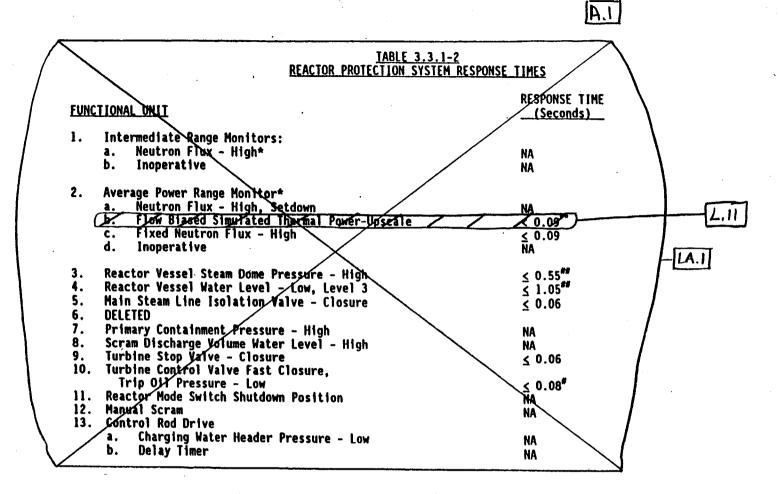
[I.A]

TABLE NOTATIONS

(a) A channel may be placed in an inoperable status for up to 6 hours for required surveillance without placing the channel in the tripped condition provided at least one OPERABLE channel in the same trip system is Surveillance monitoring that parameter. Requirements The "shorting links" shall/be removed from the RPS circuitry prior to and during the time any control rod is withdrawn* and during shutdown margin demonstrations performed/per Specification 3.10.3. An APRM channel is inoperable if there are less than 2 LPRM inputs per level or less than 14 LPRM inputs to an APRM channel. (c) This function is not required to be OPERABLE when the reactor pressure vessel head is unboited or reproved per Specification 2.10.1. (e) This function shall be automatically bypassed when the reactor mode switch is not in the Run position. This function is not required to be OPERABLE when PRIMARY CONTAINMENT, INTEGRITY is not/required/ from a control cell containing Also actuates the standby gas treatment system! (g) (LA.6) one or more fuel assemblies. Note (a) to **S**(h) With any control rod withdrawn. Not applicable to control rods removed per *pecification \$3.9.10/1 or \$3.9.10/2 Table 3,3,1,1-1 C This function shall not be automatically bypassed when THERMAL POWER is greater than or equal to 25% of RATED THERMAL POWER. Also actuates the £00-RPX

*Not required for a 2.9.10.2.	control rods pemo	ved per specificat	igh 3.9.10 2 or LA.4
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Note 1 to SR 3.3.1.1.17

*Neutron detectors are exempt from response time testing. Response time shall be measured from the detector output or from the input of the first electronic component in the channel.

Note 5 to SR 3.3.11.17

**Mot /ncluding/simulated thermal/power time/constant/
Measured from start of turbine control valve fast closure.

Note 2 to SR3.3.1.1.17

*##Sensor is eliminated from response time testing for the RPS circuits. Response time testing and conformance to the administrative limits for the remaining channel including trip unit and relay/logic are required.

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Table 3.3.1.1-1

REACTOR PROTECTION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

	MACION PROTECT			SORAFILLANCE KERN		
Func	tion (SR3.3.1		3.3.1.14, SR3.3.1.1.5 CHANNELISR3	(5R3.3.1.1.10.5) 3.1.1.9) SR3.3.1.1.13		
		CHANNEL	-FUNCTIONAL	CHANNEL	CONDITIONS FOR WHICH	
TAILE	I WAS THE	CHECK	IESI	CALIBRATION(a)	SURVEILLANCE REQUIRED	!
1.a }1.	Intermediate Range Monitors a. Neutron Flux - High	5/U ^(b) , S	(A.9) (S/U ⁽²⁾ , W-4	(Note 1 to SR 3.3.1.1	13.1.1.1 I Note to SK 3.3.1	1.4 [MI]
1.6 }	b. Inoperative SR 3.3.11.6	S NA	W-5 LE W-4,-5	1	37. 1 5+ add pro	oposed HL.2
2.a{2.	Average Power Range Honitor: a. Neutron Flux - High, Setdown SR3.3.1.1.7	- 5R 3.3. 1.1.8 5/U ^(b) , S	A.9 (8/W ²), N-4	SA-11 (L.3)-[L.3	S Note to	3.3.1.1-1) 5 SR 3.3.1.1.4 1-15 SR 3.3.1.1.11
1.b {	b Plan Bland Al 2 A Am 2	15/		SA / Se 3.5.1.1 (V(d)(a)) SK 14	.3 29 29 114	16 JRJG,111119
2.c {	c. Fixed Neutron Flux - High	S	[3] (AUD) 0-9	(WID) SA-11	TE.III	
2.9 8	d. Inoperative	NA	0-9	NA 58 33.1	1, 2, 3 3 L 4	
3. \{3.	Reactor Vessel Steam Dome Pressure - High	NĄ	0 -9	Q-10	1, 2	
4.}4.	Reactor Vessel Water Level - Low, Level 3	S	0-9 LE	1 R -13	1, 2	
5, 25.	Main Steam Line Isolation Valve – Closure	NA	9-9 LE.]R-13	. 1	
6.	DELETED		•			ı
6. {7.	Primary Containment Pressure - High	NA	0-9 [LE	<u>J</u> — (0 -13	1, 2	TTS 3.7
						. ~

Table 3.3.1.1-1 TABLE 4.3.1.1-1 (Continued)

E la	REACTO	OR PROTECTION SYSTEM (SR 3.3.1.1.1) (5R3.3.	INSTRUMENTATION	SURVEILLANCE REQUI	REMENTS	
_	CTIONAL UNIT	CHANNEL CHECK	FUNCTIONAL TEST	3.1.19; \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	OPERATIONAL CONDITIONS FOR WHI SURVEILLANCE REQUI	ICH IRED L.L
7. 8. 8.\frac{9}{10. 9.\frac{10}{3}.	Scram Discharge Volume Level - High Turbine Stop Valve - (Turbine Control Valve Closure Valve Trip S	Closure NA NA Fast	Q-9 Q-9	LE.1-R 13	1. 2. 5€ N	dd proposed lote (a) to able 3.3.1.1-1
10,	Shutdown Position	NA NA NA	Q-9 [DZ] (P) 12 W-5	IE.I-R-13 NA NA	- L	Id proposed ote (a) to Table 3.3.1.1-1
Note ta SR 3.3.1.1.11	a. Charging Water He Pressure - Low b. Delay/Timer	/ / NA NA	M /	R R	2: 5 /	R.P
SR 3.3.11.7	The IRM and SRM channe and the IRM and APRM (trolled shutdown, if r Within 24 hours prior	els shall be determ channels shall be do not performed within to skartup/if not	ined to overlap (Tetermined to over the previous 7 (pertormed within	or at least 1/2 der lap for at least 1/2 days.	2 decades during e	each con-
Add proposed Note to SR 3.3.1.1.2	calculated by a heat to POWER. The APRIM Gain mined by the heat bala	I consist of the ad- balance during OPER Adjustment Factor ance divided by the	justment of the A ATIONAL CONDITION (GAF) for any chai APRM/reading for	PRM channel to con 1 when THERMAL PO nnel shall be equa that channel.	form to the power was 25% of RATED to the power value	THERMAL / ue deter/
Actions Note 2 -	Within 2 hours, adjust 12 hours, if power is < 0.98. Until any recreator control panel.	quired APRIN adjustmo	ent has been accor	mplished notifica	tion shall be post	ed on/the
SR 3.3.1.1.3 ——{(e) SR 3.3.1.1.8 — { (f)	calibrated flow signal The LPRMs shall be cal Measure and compare of	librated at least or	nce per 1000 effe	ctive full power h	ours (EFPH). (A.10)	(L.10)
$\frac{2}{5}$ $\frac{2}$	At least once per ABLAN Valve Trip System Oil RATED THERMAL POWER.	Consist of verify months, verify Turb Pressure - Low Tri Specification 4.0.	ing the 6 ± 1.secoine Stop Valve - 6 Functions are no applies to this	ot bypassed when Ti month interval	e Control Valve Fa: HERMAL POWER is > 1	st Closure 25% of
Note to SR 3.3.1.1.4 Sx Note 2 to SR 3.3.1.1.11 (Note 2 to SR 3.3.1.1.13	The provisions of Speci OPERATIONAL CONDITION 2	ification 4.0.4 are 2 or 3 when shutting	not applicable for down from OPERA	or a period of 24 t TIONAL CONDITION 1	hours after enteri	ng M.I

	LIMITING CONDITION FOR OFERALION
LLO 3.3.6.1.	shall be OPERABLE with their trip setpoints set consistent with the values shown in table 3.3.2-1 (In the Trip Setpoint column of Table 3.3.2-2 and with TSOLATION SYSTEM RESPONSE (TIME (as shown in Table 3.3.2-3.
K 3, 3, 4,1, 0	
	APPLICABILITY: As shown in Table 3.3.2-1. add proposed ACTIONS Note A.2
	ACTION:
ACTIONS A and B	a. With an isolation actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of Table 3.3.2-2, declare the channel inoperable until the channel is restored to OPERABLE status with its trip setpoint adjusted consistent with the Trip Setpoint value.
(
ACTION A	b. With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System Requirement for one trip system, either 1. Place the inoperable channel(s) and/or trip system in the tripped condition* within 1 hour for trip functions without an OPERABLE channels b) 12 hours for trip functions common to RPS Instrumentation, and c) 24 hours for trip functions not common to RPS Instrumentation,
	a) 1 hour for trip functions without an OFERABLE channel
	b) 12 hours for trip functions common to RPS Instrumentation, and c) 24 hours for trip functions not common to RPS Instrumentation,
	or
ACTION	$C \longrightarrow (2.$ Take the ACTION required by Table 3.3.2-1.
ACTION B	C. With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirement for both trip systems. 1. Place at least one trip system** in the tripped condition*** within
	1. Place at least one trip system** in the tripped condition*** within one hour, and
	2. a) Place the inoperable channel(s) in the remaining trip system in the tripped condition*** within
	2. a) Place the inoperable channel(s) in the remaining trip system in the tripped condition*** within (1) 1 hour for trip functions without an OPERABLE channel 2) 12 hours for trip functions common to RPS Instrumentation, and 3) 24 hours for trip functions not common to RPS Instrumentation,
' ACTIO	NC (b) Take the ACTION required by Table 3.3.2-1.
	b) Take the ACTION required by Table 3.3.2-1.
	An inoperable channel need not be placed in the tripped condition where this would cause the Trip Function to occur. In these cases, the [Inoperable channel shall be restored to OPERABLE status within 6 hours of the ACTION required by Table 3.A.2-1 for that Trip Function shall be taken.]
	If more channels are inoperable in one trip system than in the other, select that trip system to place in the tripped condition except when this would cause the Trip Function to occur.
	An inoperable channel need not be placed in the tripped condition where LA.3
Artin	this would cause the Trip Function to occur. In these cases, the
	the ACTION required by Table 3.3.2-1 for that Trip Function shall be taken.
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3/4.3.2 ISOLATION ACTUATION INSTRUMENTATION

	IMITING CONDITION FOR OPERATION
LC0 3,36.2	1.3.2 The isolation actuation instrumentation channels shown in Table 3.3.2-1 [LA.] shall be OPERABLE with their trip setpoints set consistent with the walues shown in the Trip Setpoint column of Table 3.3.2-2 and with asolation system RESPUNSD A.Z. THE as shown in Table 1.1.2-3.
	APPLICABILITY: As shown in Table 3.3.2-1.
	ACTION: add proposed ACTIONS Note
ACTIONS A	with an isolation actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of Table 3.3.2-2, declare the channel inoperable until the channel is restored to OPERABLE status with its trip setpoint adjustes consistent with the Trip Setpoint value.
	. / With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System Requirement for one trip system, either
ACTIONS	1. Place the inoperable channel(s) and/or trip system in the tripped condition* within
	a) 1 hour for trip functions without an OPERABLE channel b) 12 hours for trip functions common to RPS Instrumentation, and c) 24 hours for trip functions not common to RPS Instrumentation,
	or
ACTIO	C 2. Take the ACTION required by Table 3.3.2-1.
CHONB	With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirement for both trip systems. 1. Place at least one trip system** in the tripped condition*** within
	one hour, and
	(2. a) Place the inoperable channel(s) in the remaining trip system in the tripped condition*** within
ACTION A	1) 1 hour for trip functions without an OPERABLE channel 2) 12 hours for trip functions common to RPS Instrumentation, and 3) 24 hours for trip functions not common to RPS Instrumentation,
ACTION	C or (b) Take the ACTION required by Table 3.3.2-1.
	An inoperable channel need not be placed in the tripped condition where this would cause the Trip Function to occur. In these cases, the inoperable channel shall be restored to OPERABLE status within 6 hours of the ACTION required by Table 3.3.2-1 for that Trip Function shall be taken
(If more channels are inoperable in one trip system than in the other, select that trip system to place in the tripped condition except when this would cause the Trip Function to occur.
ACTION B	An inoperable channel need not be placed in the tripped condition where this would cause the Trip Function to occur. In these cases, the inoperable channel shall be restored to OPERABLE status within 1 hour or the ACTION required by Table 3.3.2-1 for that Trip Function shall be taken.
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INSTRUMENTATION

SURVEILLANCE REQUIREMENTS

Note 1 to surveillance Requirements 4.3.2.1 Each isolation actuation instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations for the OPERATIONAL CONDITIONS and at the frequencies shown in Table 4.3.2.1-1.

LA.4

5R3.3.61.5

4.3.2.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all channels shall be performed at least once per (& months. 24)

LD.I

A.3

5R3.3.6.1,6

4.3.2.3 The ISOLATION SYSTEM RESPONSE TIME of each isolation trip function shown in Table 3.3.2-3 shall be demonstrated to be within its limit at least once per (8) months. Each test shall include at least/one channel per trip system such that all channels are tested/at least once every N times 18 months, where N is the/total number of redundant/channels in a specific isolation trip system.

definition of STAGGERED TEST BASIS and A.4

(24)- LD,1

[A.1

INSTRUMENTATION

SURVEILLANCE REQUIREMENTS

Note 1 to Surveillance Requirements

4.3.2.1 Each isolation actuation instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations for the OPERATIONAL CONDITIONS and at the frequencies shown in Table 4.3.2.1-1.

12A3/

SR 3.3.6.2.4

4.3.2.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all channels shall be performed at least once per (8) months.

LD.1

4.3.2.3 The ISOLATION/SYSTEM RESPONSE TIME of each isolation trip function shown in Table 3.3.2-3 shall be desonstrated to be within its limit at least once per 18 months. Each test shall include at least one channel per trip system such that all channels are tested at least once every N times 18 months, where N is the total number of redundant channels in a specific isolation trip system.

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TABLE 3.3.2-1

ISOLATION ACTUATION INSTRUMENTATION

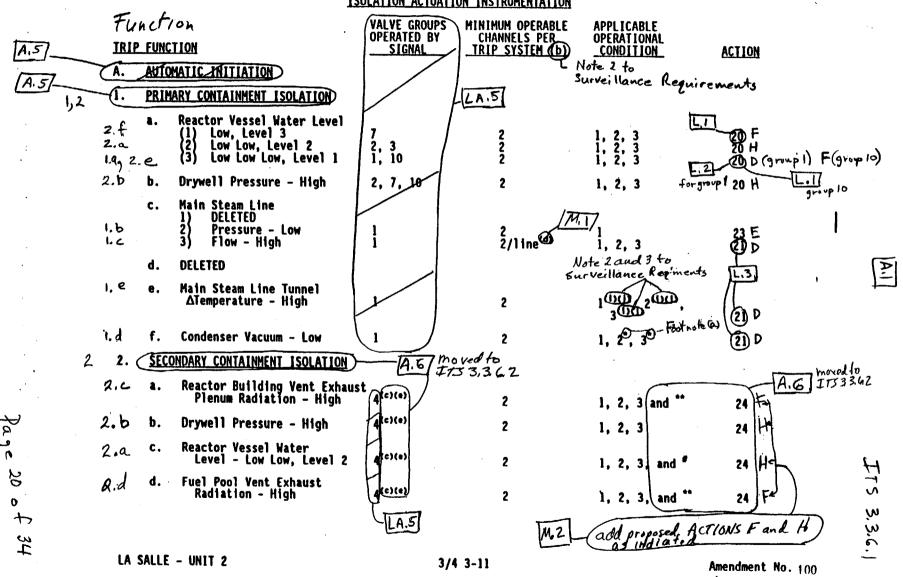


TABLE 3.3.2-1

ISOLATION ACTUATION INSTRUMENTATION

		Ii.	SATULTAL VELIANTION IN	PIKUTENIALIUN		•	
	ncti FUNC	•	OPERATED BY CH	MUM OPERABLE IANNELS PER IP SYSTEM (b)	APPLICABLE OPERATIONAL CONDITION	ACTION	
(A.	AUTO	MATIC INITIATION A. 4	LLA.4	ກ ້		-	
$\widetilde{\Box}$	PRIM	MARY CONTAINMENT ISOLATION	-[27]	3		Sec ITS 3.3.6	i. (<i>)</i>
	a.	Reactor Vessel Water Level (1) Low, Level 3 (2) Low Low, Level 2 (3) Low Low Low, Level 1	7 2. 3 1, 10	2 2 2	1, 2, 3 1, 2, 3 1, 2, 3	20 20 20 20	•
	b.	Drywell Pressure - High	2, 7, 10	2	1, 2, 3	20	
	c.	Main Steam Line 1) DELETED 2) Pressure - Low 3) Flow - High	1	2 2/1 ine ^(d)	1, 2, 3	23 21	
- 1	d.	DELETED				1	A
	●.	Hain Steam Line Tunnel ΔTemperature – High	1	2	1 ⁽¹⁾⁽¹⁾ , 2 ⁽¹⁾⁽¹⁾ ,	21	
	f.	Condenser Vacuum - Low	1	2	1, 2°, 3°	21	
2.	SEC	ONDARY CONTAINMENT ISOLATION					
3	a.	Reactor Building Vent Exhaus Plenum Radiation - High	st descent 1A.4	2	1, 2, 3 and	(a) and (b) to Table 3.3.6	i. z-(
2	b.	Dryweil Pressure - High	korto)	2	1, 2, 3		to
1	c.	Reactor Vessel Water Level - Low Low, Level 2	kenyan	2 .	1, 2, 3, and	24C (Note &1) Table 3.3	3.62-1
4	đ.	Fuel Pool Vent Exhaust Radiation – High	al entry	2	1, 2, 3, and 🍑	24 (ITS
			(See ITS 3.3.6.)	<i>)</i> .	No	stes (a) and (b) to Table 3.36.2-1	3.3.6
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ISOLATION ACTUATION INSTRUMENTATION

		ISULATION ACTUAL	10N INSTRUMENTATION		
•	Function TRIP FUNCTION	VALVE GROUPS OPERAVED BY SIGNAL	TRIP SYSTEM (b)	APPLICABLE OPERATIONAL CONDITION	ACTION
4	3. <u>REACTOR WATER CLEAN</u>	UP SYSTEM ISOLATION	, L N	ote 2 to Surveille Requirements	unce
add proport	4.a a. Δ Flow - High	5/1	1	1. 2. 3	22 F
Function 4. b	4.ሬ b. Heat Exchanger Temperature	Area - High	1/heat exchanger	1. 2. 3	22 F
M, 3	4.d c. Heat Exchanger Ventilation	Area aT - High	1/heat exchanger	1, 2, 3	22 F [L.]]
•	4.2. d. SLCS Initiation	1 /50 A.9 -	(B) (M)	1. 2. 2 - 1.4	Ø I
	4.k e. Reactor Vessel Level - Low L	Water S 5 - footnote	(b) ₂	1. 2. 3	22 =
•	ሦළ f. Pump and Valve Temperature	Area High 5	1/area	1. 2. 3	22 F
	4.4 g. Pump and Valve Ventilation A	17 - High 16	1/area	1, 2, 3	22 F
	4.9 h. Holdup Pipe Are Temperature	ea High 5	1	1. 2. 3	22 F
	الله i. Holdup Pipe Are Ventilation 2	ea ST - High 5	1	1. 2. 3	22 =
	4.1 j. Filter/Deminera Valve Room Ar Temperature -	rea /	. 1	1, 2, 3	22 F
Jago	Y, j k. Filter/Deminera Valve Room Ar Ventilation A	rea I I	1	1. 2. 3	22 F
	1. Pump Sugtion F1	ow - Hygh 5		1. 2. 3	22) LA.9
<u>44</u>					

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<u>TABLE 3.3.2-1</u> (Continued)

ISOLATION ACTUATION INSTRUMENTATION

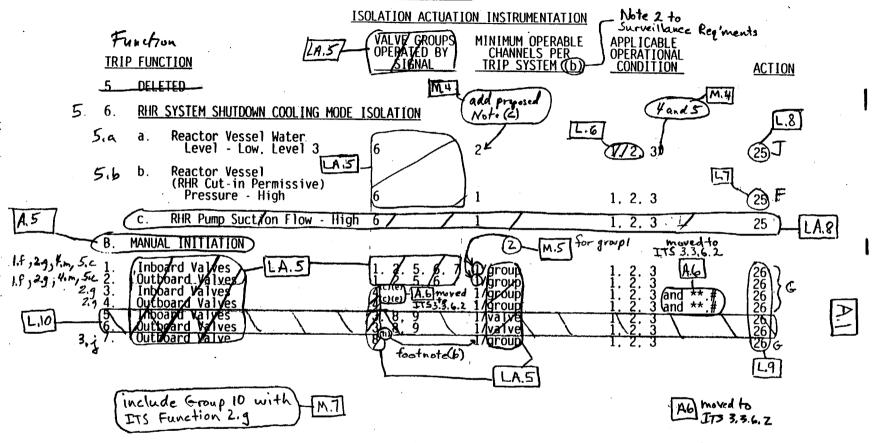
<u>TRIF</u> 4.	P FUNC RFAC	<u>CTION</u> CTOR CORE ISOLATION COOLING SY	STEM ISOLATION	CHANNELS PER TRIP SYSTEM (b)	OPERATIONAL <u>CONDITION</u> Note 2 to	ACTION	
	114710		STEIT TOULATTUN	_	Surveillance Requ	irements	
3.a	a.	RCIC Steam Line Flow - High	$\sqrt{8}$	1	1. 2. 3	22 F	
3, c	b.	RCIC Steam Supply Pressure - Low	8 9(9)	2	1. 2. 3	22 F	
3. d	С.	RCIC Turbine Exhaust Diaphragm Pressure - High	8	2	1. 2. 3	22 F	
3, e.	đ.	RCIC Equipment Room Temperature - High	B LA.	5 1	1. 2. 3	22 F	
3.9	е.	RCIC Steam Line Tunnel Temperature - High	8	1	1. 2. 3	22 F	
3.h	f.	RCIC Steam Line Tunnel	8	1	1, 2, 3	22 F '	D.
3.1	g.	Drywell Pressure - High	9(9)	2	1. 2. 3	22 F	
3.1	h.	RCIC Equipment Room \$\Delta\$ Temperature - High	8	1	1. 2. 3	22 F	

add proposed Function 3.6

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Table 3.3.6.1-1

TABLE 3.3.2-1 (Continued)



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Table 3.3.6.2-/ 1ABLE 3.3.2-1 (Continued)

ISOLATION ACTUATION INSTRUMENTATION

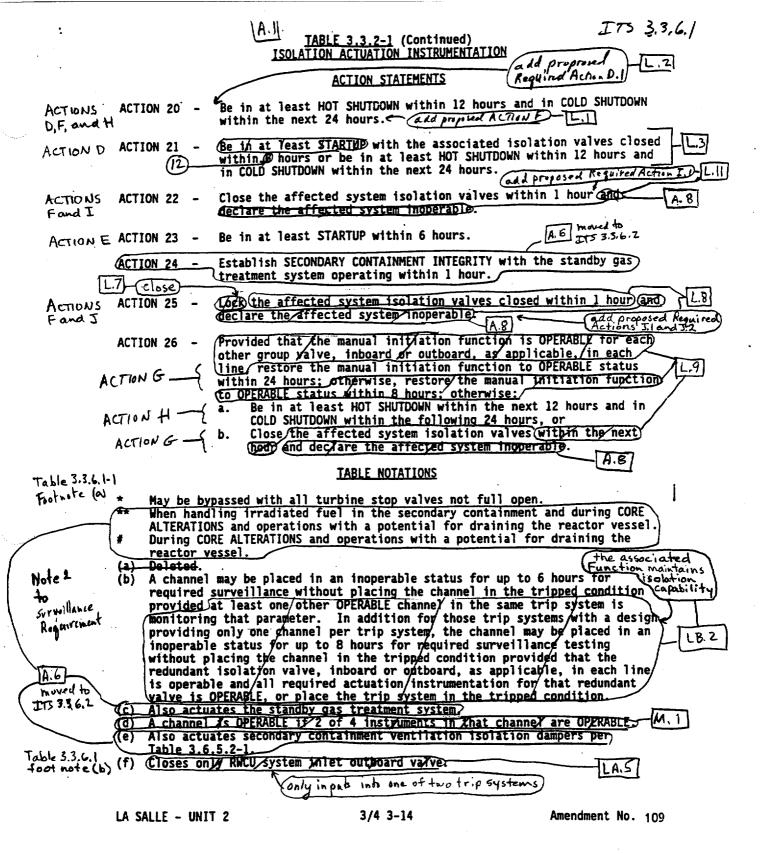
			nction P FUNC DELE	CTION	VALVE GROUPS OPERATED BY SIGNAL	MINIMUM OPERABLE CHANNELS PER TRIP SYSTEM (b) LAY	APPLICABLE OPERATIONAL CONDITION	ACTION	
	/	6.	RHR	SYSTEM SHUTDOWN COOLING MODE	ISOLATION	•			
5	See ITS 3.3.6.1	1	a.	Reactor Vessel Water Level - Low. Level 3	6	2	1. 2. 3	25	
	·		b	Reactor Vessel (RHR Cut-in Permissive) Pressure - High	6	1	1, 2, 3	25	
Ì	_	<u></u>	<u>C.</u>	RHR Pump Suction Flow - High	1 6	_1	1. 2. 3	25	1:1
1	5.	B.		L INITIATION					لــــا
	<u> </u>	$-\frac{1}{2}$	Outb (Inbo	pard Valves poard Valves pard Valves pard Valves LA.4 (See ITS)	1. 2. 5. 6. 7 2. 5. 6 -(4) - LA.4]	1/group 1/group 1/group 1/group	1. 2. 3 1. 2. 3 and **. 1. 2. 3 and **.	26 26 26 26 C	
	3.	5. 6. 7.	Inbo Outb	pard Valves poard Valves poard Valves	3. 8. 9 3 _{m,} 8. 9	l/group/ l/valve l/group	1. 2. 3 and **.# 1. 2. 3 1. 2. 3 1. 2. 3	26 26 26 26 26	
							(Notes (a) and	(b)	

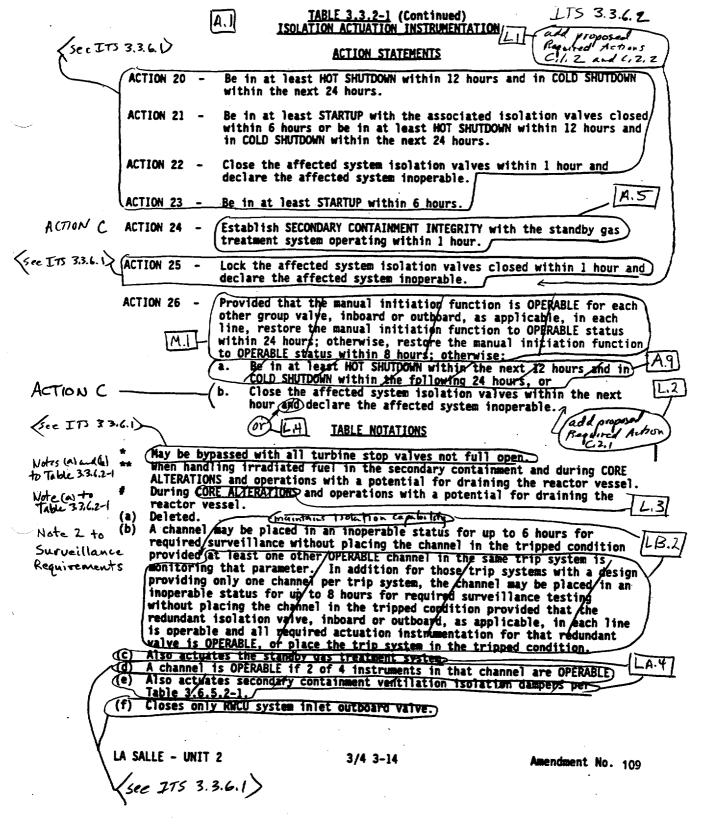
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TABLE 3.3.2-1 (Continued)

NOTES (Continued)

LA.5

Table 3.3.6.1-1 footnote (b) (h)

Notes

Requires BCIC steam supply pressure-low concident with driwell pressure high.

Manual Initiation isolates 2E51-F008 only and only with a coincident

reactor vessel water level-low, level 2. signal.

Both channels of each trip system may be placed in an inoperable status for up to 4 hours for required reactor building ventilation system corrective maintenance, filter changes, damper cycling and surveillance tests, other than Surveillance Requirement 4.6.5.1.c, without placing the trip system in

than Surveillance Requested the tripped condition.

ACTIONS (j) Both channels of each

j) Both channels of each trip system may be placed in an inoperable status for up to 12 hours due to loss of reactor building ventilation or for performance of Surveillance Requirement 4.6.5.1.c without placing the trip system in the tripped condition.

Only inputs into one of two trip systems

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Table 3.3.6.1-1

TABLE 3.3.2-2

ISOLATION ACTUATION INSTRUMENTATION SETPOINTS

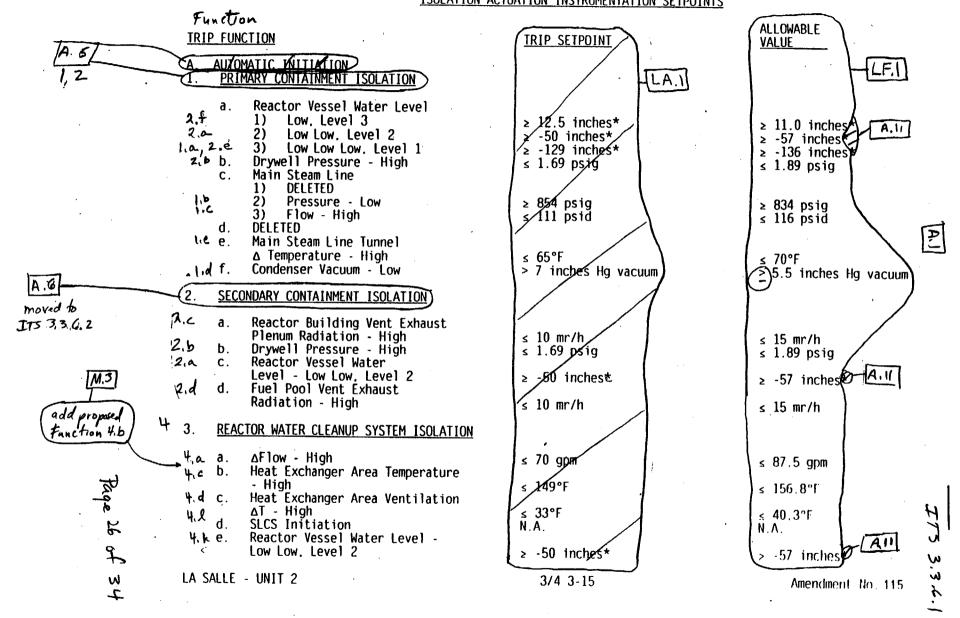


TABLE 3.3.2-2 ISOLATION ACTUATION INSTRUMENTATION SETPOINTS Function ALLOWABLE TRIP FUNCTION VALUE AUTOMATIC INITIATION PRIMARY CONTAINMENT ISOLATION Reactor Vessel Water Level Low. Level 3 ≥ 12.5 inches* ≥ 11.0 inches* Low Low, Level 2 ≥ -50 inches* See ITS 33,6.1) ≥ -57 inches* Low Low Low, Level 1 ≥ -129 inches* ≤ 1.69 psig ≥ -136 inches* Drywell Pressure - High ≤ 1.89 psig Main Steam Line DELETED Pressure - Low ≥ 854 psig ≥ 834 psiq 3) Flow - High s 111 psid ≤ 116 psiď DELETED Main Steam Line Tunnel A Temperature - High < 65°F < 70°F Condenser Vacuum - Low > 7 inches Hg vacuum > 5.5 inches Hg vacuum SECONDARY CONTAINMENT ISOLATION Reactor Building Vent Exhaust Plenum Radiation - High s 10 mm/h ≤ 15 mr/h Drywell Pressure - High Reactor Vessel Water b. ≤ 1.69 ps i/g ≤ 1.89 psig C. Level - Low Low, Level 2 ≥ -80 inches (m ITS 3,36.1)

20

17 0 + 27 ≥ -57 inches € Fuel Pool Vent Exhaust Radiation - High ≤ 10 m /h s 15 mr/h REACTOR WATER CLEANUP SYSTEM ISOLATION ΔFlow - High < 70 gpm ≤ 87.5 gpm Heat Exchanger Area/Temperature - High ≤ 149°F 156.8°F Heat Exchanger Arga Ventilation ΔT - High ≤ 33°F s 40.3°F SLCS Initiation N.A. N.A. Reactor Vessel Nater Level -Low Low, Leve 1/2 -50 inches* > -57 inches* LA SALLE - UNIT 2 3/4 3-15 Amendment to 115

ITS 33.6.

ISOLATION ACTUATION INSTRUMENTATION SETPOINTS

Funets TRIP FUNC		TRIP SETPOINT	ALLOWABLE VALUE
te f.	Pump and Valve Area Temperature - High	s 201/F	<pre></pre>
4,f.g.	Pump and Valve Area	1 2001	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
•	Ventilation ∆T - High	\$86°F	≤ 92.5°F
4.g h.	Holdup Pipe Area	PLA.I	LF.I
	Temperature - High	≤ 201°F	≤ 209°F
4.h i.	Holdup Pipe Area	1 /1	30 FOF
· ·	Ventilation ΔT - High	≤ 86°F	≤ 92.5°F
Y./ j.	Filter/Demineralizer Valve Room		
4.1 :	Area Temperature - High	≤ 201°F	≤ 209°F
4,j k.	Filter/Demineralizer Valve Room		1 1
	Area Ventilation ΔT - High	≤ 86°F	≤ 92.5°F
1.	Pump Suction Flow - High	≤ 560 gpm	≤ 610 opm /∠A.9/

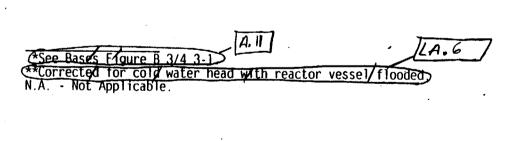
ISOLATION ACTUATION INSTRUMENTATION SETPOINTS

Function ALLOWABLE TRIP FUNCTION VALUE LA. REACTOR CORE ISOLATION COOLING SYSTEM ISOLATION A.7 3.a. a. RCIC Steam Line Flow - High ≤ 290% of rated flow, 178" HA ≤ (295% of rated flow) \$185" H,0 ろに b. RCIC Steam Supply Pressure - Low ≥ 53 psig ≥ 57 psig 3, d c. RCIC Turbine Exhaust Diaphragm Pressure - High ≤ 10. Ø psig ≤ 20.0 psig 3.e d. RCIC Equipment Room ≤ **2**00°F Temperature - High ≤ 206°F RCIC Steam Line Tunnel Temperature - High ₹ 200°F ≤ 206°F RCIC Steam Line Tunnel Δ Temperature - High ≤ 117/F ≤ 123°F 3.1 q. Drywell Pressure - High ≤ 1,69 psig ≤ 1.89 psig 3,8 h. RCIC Equipment Room ≤ 120°F ΔT Temperature - High ≤ 126°F DELETED add proposal Function S.b

Table 3.3.C.1-1

TABLE 3.3.2-2 (Continued)

ISOLATION ACTUATION INSTRUMENTATION SETPOINTS Function ALLOWABLE TRIP FUNCTION TRIP SETPOINT VALUE RHR SYSTEM SHUTDOWN COOLING MODE ISOLATION 5, a. Reactor Vessel Water Level -Low. Level 3 $\geq 1/2.5$ inches ≥ 11.0 inches 5,b Reactor Vessel (RHR Cut-in Permissive) Pressure - High 135 psig** s 145 psig RHR Pump Suction Flow - High ≤ 180" H₂0 ≤ 186"/H₂0 MANUAL INIZIATION N.A.



Inboard Valves
Outboard Valves
Inboard Valves
Outboard Valves
Inboard Valves

Outboard Valves
Outboard Valve

LA SALLE - UNIT 2

L.10

773 3.3.6.

TABLE 3.3.2-2 (Continued)

ISOLATION ACTUATION INSTRUMENTATION SETPOINTS

		nction P FUNCTION	TRIP SETPOINT	ALLOWABLE VALUE
	6.	RHR SYSTEM SHUTDOWN COOLING MODE ISOLATION)	
		a. Reactor Vessel Water Level - Low, Level 3	≥ 12.5 inches*	≥ 11.0 inches*
		Reactor Vessel (RHR Cut-in Permissive) Pressure - High	< 135 psig**	≤ 145 psig**
		c. RHR Pump Suction Flow - High	≤ 180" H ₂ 0	s 186" H ₂ 0
5.	B.	MANUAL INITIATION	N.A.	N.A.
5. \$	1. 2. 3. 4. 5. 6. 7.	Inboard Valves Outboard Valves Outboard Valves Inboard Valves Outboard Valves Outboard Valves Outboard Valves Outboard Valves	Se	Pe ITS 33.6.1

See Bases Moure B 3/4 3-D.

**Corrected for cold water head with reactor vessel flooded.

N.A. - Not Applicable.

See ITS 3.3.6.1

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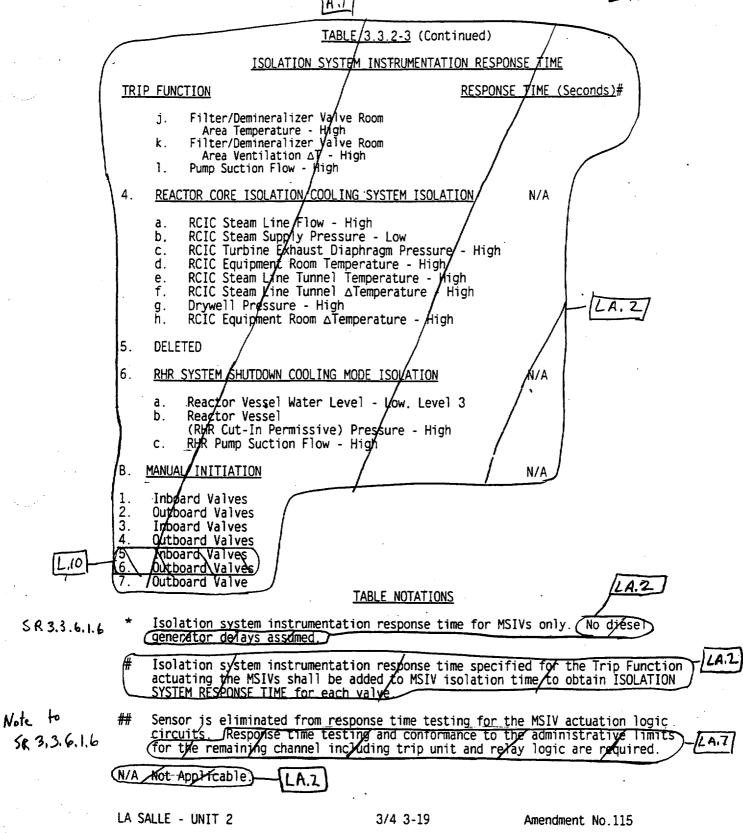
Amendment No 115

ITS 5.3.6.2

A.1

					1	ABLE 3.3.	2-3						
			18(DLATION	SYSTEM	INSTRUMEN'	TATION BE	SPONS	E TIM				
TRIF	P FUNC	TION					RESP	PONSE	TIME	(Second	is (#)		e to 3.6.1.6
Α.	AUTON	1ATIC	NITIAT	ON								311 .	
1.	PRIM	1APP C	ONTAINME	NT ISOL	<u>ATION</u>						1		
	a./	Reac 1) 2) 3)	tor Vess Low. Le Low Low Low Low	vel 3	2 /			·	N/A N/A ≤ 1.0)*.#/		•	
	b. c.	Main 1) 2) 3)	ell Pres Steam L DELETED Pressur Flow -	ine e Low					N/A \$ 2.0 \$ 0.5	*. # *. #			
	d. e. f.	Main	enser Va Steam L	ine Tun	nel ∆Teπ	perature	- High		N/A N/A			•	
2.	SEC0	NDARY	CONTAIN	MENT IS	OLATION				N/A				
	a. b d.	Radi Dryw Reac	ation - ell Pres tor Vess	High sure - el Wate	High r Level	st Plenum - Low. Le ation - H	vel 2				1	· ·	
8 .	REAC	TOR W	ATER CLE	ANUP SY	STEM ISO	LATION			N/A				
	a. b. c. d. e. f. g. h.	Heat Heat SLCS Reac Pump Pump Hold	Exchang Initiat tor Vess and Val and Val	er Area er Area ion el Wate ve Area ve Area Area Te	Mentila r Level Tempera Ventila mperatur	ture - Hi tion ΔT -H - Low Low ture - Hi tion ΔT - e - High n ΔT - Hi	figh r. Level : gh High	2					
	_								•				

ISOLATION SYSTEM INSTRUMENTATION RESPONSE TIME TRIP FUNCTION RESPONSE TIME (Seconds) # **AUTOMATIC INITIATION** PRIMARY CONTAINMENT ISOLATION 1. Reactor Vessel Water Level Low, Level 3 N/A 1) 2) Low Low. Level 2 N/A ≤ 1.0° ** Low Low Low, Level 1 Drywell Pressure - High N/A b. Main Steam Line DELETED 1) ≤ 2.0°.# ≤ 0.5°.# 2) Pressure - Low Flow - High 3) DELETED d. Condenser Vacuum - Low N/A e. Main Steam Line Tunnel Δ Temperature - High N/A SECONDARY CONTAINMENT/ISOLATION N/A Reactor Building Vent Exhaust Plenum a. Radiation - High b. Drywell Pressure - High Reactor Vessel Water Level - Low. Level 2 C. Fuel Pool Vent Exhaust Radiation - High 3. REACTOR WATER CLEANUP SYSTEM ISOLATION N/A See ITS 3.3.6.1 ΔFlow - High b. Heat Exchanger Area Temperature - High Heat Exchanger Area Ventilation ΔT -High C. d. SLCS Initiation Reactor Vessel Water Level - Low Low. Level 2 Pump and Valve Area Temperature - High Pump and Valve Area Ventilation ΔT - High Holdup Pipe Area Temperature - High Holdup Pipe Area Ventilation ΔT - High



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TABLE 1.2.1-1

ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

ISULATION	ACTUATION INSTR	RUMENTATION SURVE	ILLANCE REQUIREMENTS	
Function IRIP FUNCTION A. AUTOMATIC INITIATION	SR 3,3. C.I.I Channel <u>Check</u>	SR 3.3.6.1.2 CHANNEL FUNCTIONAL TEST	SR 3.3.6.13 SR 3.3.6.1.4 CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
1, 2 1. PRIMARY CONTAINMENT ISOLATION)			
a. Reactor Vessel Water Level 2. 1) Low, Level 3 2. 2) Low Low, Level 2 1. 2. 2. 3) Low Low Low, Level 1 2. 2. 5. Drywell Pressure - High c. Main Steam Line 1) DELETED	S NA S NA	Q Q Q	4-R 24) 4-R movitins 4-R 14-R 14-R 14-R 14-R 14-R 14-R 14-R 1	1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3
16 2) Pressure – Low 16 3) Flow – High	NA	Q	3-9	1
d. DELETED	NA	Q	3-12 days	1, 2, 3
e. Condenser Vacuum – Low 1. e f. Main Steam Line Tunnel	NA	Q	4-8 M.6	1, 2*, 3*
Δ Temperature - High	NA	Q	4-004	1, 2, 3
(2. SECONDARY CONTAINMENT ISOLATION	•		(24 months) -1	IBI
moved to ITS 3.3.C.2 2.6 b. Drywell Pressure - High 2.a c. Reactor Vessel Water Level - Low Low, Level 2 2.d proposed Function 4, b 4 3. REACTOR WATER CLEANUP SYSTEM IS	S NA NA S	q q q	4-80 4-80 4-80	1, 2, 3 and ** 1, 2, 3 and ** 1, 2, 3 and ** 1, 2, 3 and **
Ψia a. Δ Flow - High		•	24 months LE.	
4 6. Heat Exchanger Area	S	Q	4-84) ·	1, 2, 3
ال Temperature – High c., Heat Exchanger Area	NA	Q	4-8)	1, 2, 3
Ventilation ΔT - High 4. d. SLCS Initiation 4. e. Reactor Vessel Water	NA NA	Ø)—[A.12	4-@x.] NA	1, 2, 3 1, 2, 3 L.4
Level - Low Low, Level 2		months)	4-R	1, 2, 3
LA SALLE - UNIT 2	[LD]	3/4 7 20	(24months)	· ·
7	[20.1]		LEI	

TABLE 4.3.2.1-1

ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

A.4		TION TIC INSTINCTION	S17 3,3.6.2.(CHANNEL _CHECK_	SK 336.2.2. CHANNEL FUNCTIONAL TEST	CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
	1. PRIM	ARY CONTAINMENT ISOLATION				
(See ITS 33.4)	а. b. с.	Reactor Vessel Water Level 1) Low, Level 3 2) Low Low, Level 2 3) Low Low Low, Level 1 Drywell Pressure - High Main Steam Line 1) DELETED	S NA S NA	Q Q Q	R R R Q	1. 2. 3 1. 2. 3 1. 2. 3 1. 2. 3
		2) Pressure – Low 3) Flow – High DELETED	NA NA	9	Q R	1, 2, 3
	j ;	Condenser Vacuum – Low Main Steam Line Tunnel	NA	Q	Q	1, 2*, 3*
		Δ Temperature - High	NA NA	q	R	1, 2, 3
•	2. SECON	DARY CONTAINMENT ISOLATION				
·	3 a. 2 b. 1 c.	Reactor Building Vent Exhaus Plenum Radiation - High Drywell Pressure - High Reactor Vessel Water Level - Low Low, Level 2 Fuel Pool Vent Exhaust Radiation - High	S NA NA	Q Q	24 months LE. 1	Notes (a) and (b) to Table 3.3,6.2-1 1, 2, 3 and (a) 1, 2, 3, and (b) 1, 2, 3 and (c) 1, 2, 3 and (d) Notes (a) and (b) to Table 3.3.6.2-1
	<u>, </u>	_	S	Q	R 24 months	1, 2, 3 and (1) (Notes (4) and
(3. REACT	OR WATER CLEANUP SYSTEM ISOL	ATION			Take 3.36.27
/ see	a. b.	Δ Flow – High Heat Exchanger Area	S	Q	R	1, 2, 3
175 33.6.1	c.	Temperature - High Heat Exchanger Area	NA .	Q	ģ ·	1, 2, 3
Day 20	\ d.	Ventilation ∆T - High SLCS Initiation Reactor Vessel Water	NA NA	Q R	Q . NA	1, 2, 3
(Level - Low Low, Level 2	NA NA	Q	R	1, 2, 3
of of	LA SALLE -	UNIT 2		3/4 3-20		Amendment No. 100

TABLE 4.3.2.1-1 (Continued)

ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

* *		130E/11 1017 /1010/11 1011	THO INDITIONAL TON .	BONVETLEANCE RE	<u>JUTKEME</u> N12	
	Func	ton	5R3.3.61.1	5 R 3,3,6,1, 2. CHANNEL	SR 3.3.6.1.3 SR 3.3.6.1.4	OPERATIONAL
:	TRIP FU	NCTION	CHANNEL <u>CHECK</u>	FUNCTIONAL <u>TEST</u>	CHANNEL CO CALIBRATION SU	ONDITIONS FOR WHICH BURNELL REQUIRED
•	4.e f. 4.f g.	Pump and Valve Area Temperature - High Pump and Valve Area	NA	Q	1-8- ILE	+163
	4.g h.	Ventilation ΔT - High Holdup Pipe Area	NA	Q	4-8-	1. 2. 3
	4,h 1.	Temperature - High	NA	Q	4-@	1. 2. 3
	4.i j.	Ventilation ∆T - High Filter/Demineralizer Valve Room	NA	Q	4-@-	1, 2, 3
M.3	tig k,	Area Temperature - High Filter/Demineralizer Valve Room	NA	0	4-B	1. 2. 3
(add proposed)	(1)	Area Ventilation ΔT - High Pump Suction Flow - High	NA S:	<u>0</u>	4-0	1. 2. 3
function 3.6 3	4. <u>RE</u>	ACTOR CORE ISOLATION COOLING SYSTEM ISO				[LA.9]
	3.4 a.	RCIC Steam Line Flow - High RCIC Steam Supply Pressure -	NA	Q	0-3	1 2. 3
<i>i</i>	3.d c.	Low RCIC Turbine Exhaust Diaphragm	NA	Q ·	4-04	1 2. 3
	3.e d.	Pressure - High RCIC Equipment Room	NA	Q	4-@-	1 2. 3
	3.g e.	Temperature - High RCIC Steam Line Tunnel	NA	Q	4-0	1 2. 3
	3.h f.	Temperature - High RCIC Steam Line Tunnel	NA 	Q	4-@-	12,3
	3.i g. 3手 h.	Δ Temperature - High Drywell Pressure - High RCIC Equipment Room	·NA - NA	0	4-8	1 2. 3
	2 . (Δ Temperature - High	NA .	Q	4-1	1 2, 3
Page 33	5. DE L	(272)		•	(24 mor	iths)
(i)					LE	
ŭ o			•			r t
ota	LA SALLE	- IINIT 2	7/1 7 71			Μ

TABLE 4.3.2.1-1 (Continued)

ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

·	150LATION ACTUATION	<u>INSTRUMENTAT</u>	<u>ION SURVEILLAN</u>	<u>CE REQUIREMENT</u>	<u>S</u> .
Function TRIP FUNCTION	5	CHANNEL CHECK	5R 3.3.C.1, 2. CHANNEL FUNCTIONAL TEST	SR 3.3.6.1,3 SR 3.3.6.1,4 CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
5.6. RHR SYSTEM SHUTDOWN COX 5.4 a. Reactor Vessel Wat Low, Level 3 b. Reactor Vessel (RHR Cut-in Permis Pressure-High C. RHR Pump Suction F	er Level - ssive)	S · NA NA	0	4-05 E	month) LEI 6 - 1/2 3 45 M.4
A.5 B. MANUAL INVITATION S.c., I.f, 2.9, 4. m (1. Inboard Valves (2. Outboard Valves 1. Inboard Valves (3. Inboard Valves 4. Outboard Valves (5. Inboard Valves Outboard Valves (6. Outboard Valves 7. Outboard Valves	Toy-ringii	NA NA NA NA NA NA		Onths LD.1	-
Footute (a)					A.6 moved to 173 3.3.62

* Not required when all turbine stop valves are not full open.

** When handling irradiated fuel in the secondary containment and during CORE ALIERATIONS and operations with a potential for draining the reactor vessel.

** During CORE ALIERATIONS and operations with a potential for draining the reactor vessel.

** Handling irradiated fuel in the secondary containment and during CORE ALIERATIONS and operations with a potential for draining the reactor vessel.

A.6 moved to ITS 3.3.6.2

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Table 33.6.2-1

TABLE 4.3.2.1-1 (Continued)

1SOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS SR 3.3.4.2.2

	ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS				
	Function TRIP FUNCTION	SR 3-3.6.2. I CHANNEL <u>CHECK</u>	2633122	SR 3.3.4.2.3 CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
	6. RHR SYSTEM SHUTDOWN COOLING MODE	ISOLATION	·		
See ITS 3.3.6.1)	a. Reactor Vessel Water Level Low, Level 3 b. Reactor Vessel (RHR Cut-in Permissive)		Q	R	1. 2. 3
	Pressure-High c. RHR Pump Suction Flow-High	NA NA	Q Q	0	1. 2. 3
5.		7.	<i>i</i> .		
5, 5,	1. Inboard Valves 2. Outboard Valves 3. Inboard Valves 4. Outboard Valves 5. Inboard Valves 6. Outboard Valves	A.7 NA	R R R)-24	NA NA NA NA NA	1. 2. 3 1. 2. 3 1. 2. 3 and **.#
	7. Outboard Valve	NA NA	R	NA NA	1. 2. 3 1. 2. 3 1. 2. 3
Page		See Irs 3.3	. (.1)	Notes to 9	(a.) and (b) able 3562-1)
Notes (a) and (b) to) Table 33.6.2-1 Notes (a) to	** Not required when all turbine sto ** When handling irradiated fuel in potential for draining the reactor	the secondary contains	ment and durin	g CORE ALIERATIO	ONS and operations with a
Notes (91 to) Take 336.2-1).	# During CORE ALTERATIONS and operation	itions with a potential	for draining	the reactor ve	ssel.
					<i>''</i>

LA SALLE - UNIT 2

INSTRUMENTATION

3/4.3.3 EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

LIMITING	CORDITION FOR OPERATION
L(03,5.1 channels	shown in Table 3.3.3-1 shall be OPERABLE with their trip setpoints start with the values shown in the Trip Setpoint column of Table 3.3.3-2 EMERGENCY CORE COOLING SYSTEM RESPONSE TIME as shown in Table 3.3.3-3. EMERGENCY CORE COOLING SYSTEM RESPONSE TIME as shown in Table 3.3.3-3. A.2 Installation and 3.5.2. A.3
	With an ECCS actuation instrumentation channel trip setpoint less
ACTION A	conservative than the value shown in the Allowable Values column of Table 3.3.3-2, declare the channel inoperable until the channel is
PSHOW 7	restored to OPERABLE status with His trip setpoint adjusted consistent
·	with the Trip Satisfint value.
ACTION A b.	With one or more ECCS actuation instrumentation channels inoperable, take the ACTION required by Table 3.3.3-1.
ACTIONS Eand F	With either AOS trip system "A" or "B" inoperable, restore the inoperable trip system to OPERABLE status within:
	I 7 days, provided that the HPCS and RCIC systems are OPERABLE.
	2. 72 hours.
ACTTON G	Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and reduce reactor steam dome pressure to less than or equal to 122 psig within the following 24 hours.
	(50) [1.2]
SURVEILL	ANCE REQUIREMENTS

Note 1 to Surveillance Requirements

4.3.3.T Each ECCS actuation instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations for the OPERATIONAL CONDITIONS and at the frequencies shown in Table 4.3.3.1-1.

SR 3.3.5.1.5

4.3.3.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all channels shall be performed at least once per (8) months.

4.3.3.3 The ECCS RESPONSE TIME of each ECCS trip function shown in Table 3.3.3-3 shall be demonstrated to be within the limit at least once per 18 months. Each test shall include at least one channel per trip system such that all channels are tested at least once every N times 18 months where N is the total number of redundant channels in a specific ECCS trip system.

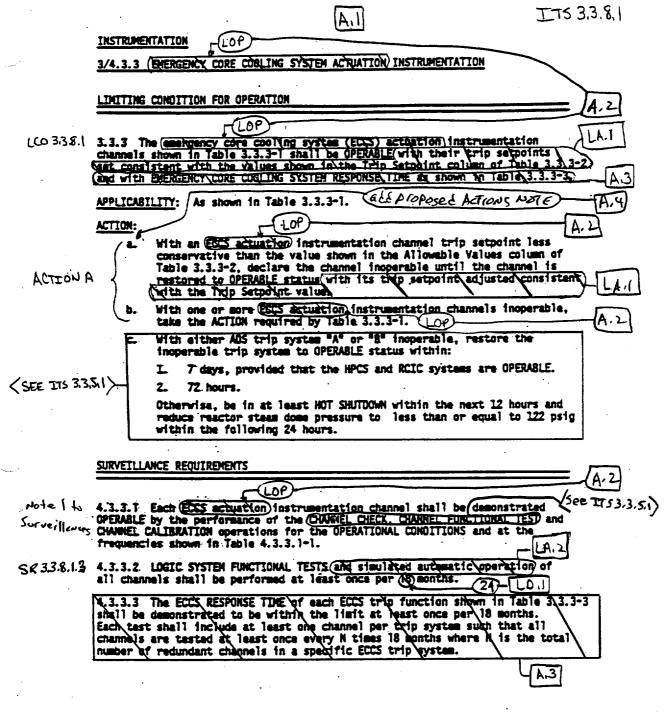
A.2 moved to ITS 3.5.1 and 3.5.2

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INSTRUMENTATION

3/4.3.3 EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3 The emergency core cooling system (ECCS) actuation instrumentation channels shown in Table 3.3.3-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.3.3-2 and with EMERGENCY CORE COOLING SYSTEM RESPONSE TIME as shown in Table 3.3.3-3.

APPLICABILITY: As shown in Table 3.3.3-1.

LA.4

ACTION:

- a. With an ECCS actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of Table 3.3.3-2, declare the channel inoperable until the channel is restored to OPERABLE status with its trip setpoint adjusted consistent with the Trip Setpoint value.
- b. With one or more ECCS actuation instrumentation channels inoperable, take the ACTION required by Table 3.3.3-1.
- c. With either ADS trip system "A" or "B" inoperable, restore the inoperable trip system to OPERABLE status within:
 - I 7 days, provided that the HPCS and RCIC systems are OPERABLE.
 - 2. 72 hours.

Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and reduce reactor steam dome pressure to less than or equal to 122 psig within the following 24 hours.

SURVEILLANCE REQUIREMENTS

- 4.3.3.7 Each ECCS actuation instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations for the OPERATIONAL CONDITIONS and at the frequencies shown in Table 4.3.3.1-1.
- 4.3.3.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all channels shall be performed at least once per 18 months.

SR 3.511.9-

4.3.3.3 The ECCS RESPONSE TIME of each ECCS trip function shown in Table 3.3.3-3 shall be demonstrated to be within the limit at least once per (A) months.

[Each test shall include at least one channel per trip system such that all channels are tested at least once every N times 18 months where N/is the total pumber of redupdant channels in a specific ECCS trip system.

LA SALLE - UNIT 2

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(See ITS 3.3.5.1)

LA.4

LA.4

LD.1

INSTRUMENTATION

3/4.3.3 EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3 The emergency core cooling system (ECCS) actuation instrumentation channels shown in Table 3.3.3-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.3.3-2 (and with EMERGENCY CORE COOLING SYSTEM RESPONSE TIME as shown in Table 3.3.3-3)

APPLICABILITY: As shown in Table 3.3.3-1.

ACTION:

- a. With an ECCS actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of Table 3.3.3-2, declare the channel inoperable until the channel is restored to OPERABLE status with its trip setpoint adjusted consistent with the Trip Setpoint value.
- b. With one or more ECCS actuation instrumentation channels inoperable, take the ACTION required by Table 3.3.3-1.
- c. With either AOS trip system "A" or "8" inoperable, restore the inoperable trip system to OPERABLE status within:
 - I 7 days, provided that the HPCS and RCIC systems are OPERABLE.
 - 2. 72 hours.

Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and reduce reactor steem dome pressure to less than or equal to 122 psig within the following 24 hours.

SURVEILLANCE REQUIREMENTS

- 4.3.3.7 Each ECCS actuation instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations for the OPERATIONAL CONDITIONS and at the frequencies shown in Table 4.3.3.1-1.
- 4.3.3.2. LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all channels shall be performed at léast once per 18 months.

SR3.5.2.7

4.3.3.3 The ECCS RESPONSE TIME of each ECCS trip function whown in Table 3.3.3 shall be demonstrated to be within the limit at least once per Apparents. Each test shall include/at least one channel per trip system such that all channels are tested at least once every N times 18 months where N/is the total number of redundant channels in a specific ECCS trip system.

(See ITS 3.3.5.1)

LA SALLE - UNIT 2

ADD proposed NOTE TO SR 3.5.2.7

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5		TABLE 3.3.3-1					
SALLE	.•	ENERGENCY CORE COOLING SYSTEM ACTUA	TION INST	RUMENTATION	•		
TE - UNIT	Funct TRIP FUN		CHANNELS	OPERABLE 5 PER TRIP TION ^(a)	APPLICABLE OPERATIONAL CONDITIONS	<u>ACTION</u>	
Ņ	A. DIV	LETON I TRIP SYSTEM		•			•
	1, 1.	RHR-A (LPCI MODE) & LPCS SYSTEM			•	i.e	
	a, a. b. b.	Reactor Vessel Water Level - Low Low Low, Level 1 Drywell Pressure - High	•	2 ^(b) 2 ^(b)	1, 2, 3, 4*; 5* 1, 2, 3	30 B	
	c, c.	LPCS Pump Discharge Flow-Low (Bypass)	•	1	1, 2, 3, 4*, 5*	-	
3/4	g. d.	LPCS and LPC1 A Injection Valve Injection Line Pressure-Low (Permissive)	;	1/Valve	1, 2, 3 44, 54	32 ⊂ 33 B	_
1 3-24	d, •.	LPCS and LPCI A Injection Valve Reactor Pressure-Low (Permissive)		2	1, 2, 3 4 ^k , 5 ^k	38 D 33 B	A.
-	. C. f.	LPCI Pump A Start Time Delay Relay	•	1 LA.3	1, 2, 3, 4*, 5*		
	f. g.	LPCI Pump A Discharge Flow-Low (Bypass)		1	1, 2, 3, 4*, 5*	_	
	h h.	Manual Initiation	,	1 division	1, 2, 3, 4*, 5*	34 ←	
t	2. AUT	OMATIC DEPRESSURIZATION SYSTEM TRIP SYSTEM "AND BATELO"	z 3,351	-1	•	•	
	a. a.	Reactor Vessel Water Level - Low Low Low, Level 1		2 ^(b)	1, 2, 3	30E	
	Ь. ь.	Drywell Pressure - High		2 ^(b)	1, 2, 3	30 E	
_	C. c.	Initiation Timer		1	1, 2, 3	32 F	
Ę	d. d.	Reactor Vessel Water Level - Low, Lével 3 (Permissive)	1 .	1, 2, 3	32 E	
ndment	e, e.	LPCS Pump Discharge Pressure-High (Permissive)	1.61	2 [LA.3]	1, 2, 3	32 F	
Ħ	£, f.	LPCI Pump A Discharge Pressure-High (Permissive)		2	1, 2, 3	32 F	
₹	h, g.	Manual Initiation		WOLF LAIDING	1, 2, 3	34 F	
27	g. h.		1-2	6	1, 2, 3	32F	
	(1.	Manual Inhibit		.1/division	1, 2, 3	<u>30</u>	
						<i>[R.]</i>	./

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LA SALLE - UNIT 2	, .		ON CHANN	M OPERABLE ELS PER TRIP NCTION ^(a)	APPLICABLE OPERATIONAL CONDITIONS	<u>ACTION</u>
	2.	1.	RHR B & C (LPCI MODE)	,		٠.
	a,	a. .b.	Reactor Vessel Water Level - Low, Low Low, Level 1 Drywell Pressure - High	2 ^(b) 2 ^(b)	1, 2, 3, 4 ⁴ , 5 ⁴	30 B
	ţ.	c.	LPCI B and C Injection Valve Injection Line Pressure-Low (Permissive)	1/valve	1, 2, 3 4 ^A , 5 ^A	32 C 33 B
3/	C'	d.	LPCI Pump B Start Time Delay Relay	1 (LA.3)	1, 2, 3, 4*, 5*	32 ←
3/4 3-25	e	ė.	LPCI Pump Discharge Flow - Low (Bypass)	1/pump	1, 2, 3, 4*, 5*	31 D
Š	g	ſ. g.	Hanual Initiation LPCI B and C Injection Valve Reactor Pressure-Low (Permissive)	1/Blylston 2	1, 2, 3, 4*, 5* 1, 2, 3, 4*, 5*	34 ← 38 b 33 B
5	2.	AUTO	DNATIC DEPRESSURIZATION SYSTEM TRIP SYSTEM "B" Table 3.3.5.	(-).		
	a.	a.	Reactor Vessel Water Level - Low Low Low, Level 1 coincident with	2 ^(b) ,	1, 2, 3	30 E
	Ъ,	b.	Drywell Pressure - High	2(p)	1, 2, 3	30 E
	¢ ·	c.	Initiation Timer	, 1	1, 2, 3	32 F
	d.	d.	Reactor Vessel Water Level - Low, Level 3 (Permissive)	1 -	1, 2, 3	32 E
Amendment No.	٤,	e.	LPCI Pump B and C Discharge Pressure, - High (Permissive)	2/pump /		32 F
	J.	f.	Manual Initiation	CONTINUE OF	1, 2, 3	34 F
≓	\$	g.	Drywell Pressure Bypass Timer	70	1,.2, 3	32 =

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Table 3.3.5.1-1

TABLE 3.3.3-1 (Continued) EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

Tunction TRIP FUNCT.			CH	NIMUM OPERABLE ANNELS PER TRIP FUNCTION (a)	APPLICABLE OPERATIONAL CONDITIONS	ACTION	
3 1. 1	HPCS_SYSTEM						
· D. b. I C. c. I	Reactor Vessel Water Level - Low, I Drywell Pressure - High Reactor Vessel Water Level-High, L Deleted Deleted			4 (b) 4 (b) 2 (C) - LA.)	1, 2, 3, 4*, 5* 1, 2, 3 1, 2, 3, 4*, 5*	35B 35B 32C	
A. t. 1 2. g. 1	Print Discharge Pressure-High (Bypa: HPCS System Flow Rate-Low (Permiss: Hanual Initiation	ss) ive)		1 LA.3	1, 2, 3, 4*, 5* 1, 2, 3, 4*, 5* 1, 2, 3, 4*, 5*	31 D 31 D 34 C	
D. Loss C	DF_POWER	OF INSTRU-	INSTRU- MENTS TO TRIP	MINIMUM OPERABLE INSTRU- MENTS(d)	APPLICABLE OPERATIONAL CONDITIONS	ACTION	
1	.16 kV Emergency Bus Undervoltage Loss of Voltage)	2/bus	2/bus	2/bus	1, 2, 3, 4**, 5**	37	_
2.	.16 kV Emergency Bus Undervoltage Degraded Voltage)	2/bus	2/bus	2/bus	1, 2, 3, 4**, 5**	<u></u>	
Note 2 to Surveillence (a) A chan	nnel/instrument may be placed in ar	TABLE No	status for	up to 6 hours de	ved to ITS 3.3.2.) uring periods of req	uired	J
(0,10,00	her OPERABLE channel/instrument in	the same tr	/instrument	in the tripped s monitoring the	condition provided	at least	
(c) Provid	es signal to close HPCS prep disch	AFRE VALVE OF	nly on 2-ou	t-60-2 locate	[24.3]		
' / maxver	nel/instrument may be placed in an llance without placing the trip sy her OPERABLE channel/instrument i	n the same to	/instrument rip system	in the tripped	condition provided	uired at least	
Regult	ed when ESF equipment is required t	to be OPERABLI	Per Speci	fication 3.5.2 c	r 3.5.3.		
Note E) to Table 3,3.5.1-1) Not re	quired to be OPERABLE when reactor	steam dome	pressure is	≤ (Y22) psig.	4.6	1	
			•	(30)-[[hoved ITS 33		
7						\mathcal{L}	

Table 3.3.8.1-1

TABLE 3.3.1-1 (Continued)

EMERGENCY FORE SPOLING SYSTEM ACTUATION INSTRUMENTATION

FUN CT TRIP FUNCT	TION	MINIMUM OPERABLE CHANNELS PER TRIP FUNCTION (a)	APPLICABLE OPERATIONAL CONDITIONS	ACTION
	SION 3 TRIP SYSTEM HPCS SYSTEM	_		
b, c. d. e. f.	Reactor Vessel Water Level - Low, Low, Level 2 Drywell Pressure - High Reactor Vessel Water Level-High, Level 8 Deleted Deleted Pump Discharge Pressure-High (Bypass)	1	1, 2, 3, 4°, 5° 1, 2, 3 1, 2, 3, 4°, 5°	35 35 32
g. h.	HPCS System Flow Rate-Low (Permissive) Manual Initiation	1 1/division	1, 2, 3, 4*, 5* 1, 2, 3, 4*, 5* 1, 2, 3, 4*, 5*	31 34
•	OF POWER LA.3 TOTAL NO. INSTRU- MENTS TRIP 4.16 kV Emergency Bus Undervoltage (Loss of Voltage) 4.16 kV Emergency Bus Undervoltage (Degraded Voltage) 2/bus 2/bus 2/bus 2/bus		APPLICABLE OPERATIONAL CONDITIONS 1, 2, 3, (4, 5)	ACTION 37) A
2. c, 2. d, 2.e/ ⊆	TABLE NOTATIO	м	[M.1]	6
SEE ITS 3.3.5. One of (b) Also (c) Provide A character (c) A c	nnel/instrument may be placed in an inoperable status illance without placing the trip system/channel/instrument in the same trip sys actuates the associated division diesel generator. des signal to close HPCS pump discharge valve only on nnel/instrument may be placed in an inoperable status illance without placing the trip system/channel/instrument may be placed in the system/channel/instrument in the same trip system/channel/instrument in the same trip system/channel/instrument in the same trip system is required to be OPERABLE per red when ESF equipment is required to be OPERABLE.	ument in the tripped tem is monitoring that 2-out-of-2 logic. for up to 2 hours dument in the tripped stem is monitoring the Specification 3.5.2 o	condition provided a at parameter. ring periods of requ condition provided	it least
Page Pof La salle -	UNIT 2 3/4 3-26	Provided that maintains was capability	associated function of initiation Amendment	A:1 3:3,8.1
车				

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION ACTION

ACTIONS	ACTION 30 -	With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip Function requirement:
B and E		a. With one channel inoperable, place the inoperable channel A.7 in the tripped condition within 24 hours of declare the
	ACTION 6	associated system inoperable. (b. With more than one channel inoperable, declare the
	ACTION 31 -	with the number of OPERABLE channels less than required by the
ACTION D		Minimum OPERABLE channels per Trip Function requirement place [the inoperable channel in the typped condition within 24 hours] L.6 restore the inoperable channel to OPERABLE status within 7 Gays
٠ .	ACTION 32 -	or declare the associated system inoperable. (Id proposed Regions Action) [M.Z] With the number of OPERABLE channels less than required by the
ACTIONS C.E, and F	F .	Minimum OPERABLE Channels per Trip Function requirement Neclare the associated ADS trip system of ECCS inoperable within 24 hours. A 7
ACTIONB	ACTION 33 -	With the number of OPERABLE channels less than the Minimum permissive operable Channels per Trip Function requirement, place the inoperable channel in the tripped condition within 24 hours.
ACTIONS Cand F	ACTION 34 -	With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip Function requirement, restore the inoperable channel to OPERABLE status within 24 hours or declare the associated ADS trip system or ECCS inoperable.
/	ACTION 35 -	With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip Function requirement Channel
ACTION (add proposed Required Action B. 2	a. For one Krip system place that Krip system in the tripped condition within 24 hours or declare the HPCS system inoperable.
/		b. For both trip systems, declare the HPES system inoperable L.3
	ACTION 36 -	Deleced
,	ACTION 37 -	With the number of OPERABLE instruments less than the Minimum Operable Instruments, place the inoperable instrument(s) in the tripped condition within 1 hour or declare the associated emergency diesel generator inoperable and take the ACTION required by Specification 3.8.1.1 or 3.8.1.2 as appropriate.
		A.6 moved to ITS 338.1

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION ACTION

1	ACTION	30	-	With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip Function requirement:
				a. With one channel inoperable, place the inoperable channel in the tripped condition within 24 hours or declare the associated system inoperable.
				b. With more than one channel inoperable, declare the associated system inoperable.
	ACTION	31	-	With the number of OPERABLE channels less than required by the Minimum OPERABLE channels per Trip Function requirement, place the inoperable channel in the tripped condition within 24 hours; restore the inoperable channel to OPERABLE status within 7 days or declare the associated system inoperable.
335.1	ACTION	32	-	With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip Function requirement, declare the associated ADS trip system or ECCS inoperable within 24 hours.
	ACTION	33	-	With the number of OPERABLE channels less than the Minimum OPERABLE Channels per Trip Function requirement, place the inoperable channel in the tripped condition within 24 hours.
	ACTION	34	-	With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip Function requirement, restore the inoperable channel to OPERABLE status within 24 hours or declare the associated ADS trip system or ECCS inoperable.
	ACTION	35	-	With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip Function requirement
				a. For one trip system, place that trip system in the tripped condition within 24 hours or declare the HPCS system inoperable.
				b. For both trip systems, declare the HPCS system inoperable.
	ACTION	36	-	Deleted

ACTION 37 -ACTION B ACTION B With the number of OPERABLE instruments less than the Minimum Operable Instruments, place the inoperable instrument(s) in the tripped condition within 1 hour or declare the associated emergency diesel generator inoperable and take the ACTION (required by Specification 3.8.1.1 or 3.6.1.2 appropriate)

Ais

TABLE 3.3.3-1 (Continued)

ACTION D

ACTION ACTION ACTION INSTRUMENTATION

ACTION 38
With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip Function requirement:

With one channel inoperable, remove the inoperable channel to OPERABLE status within 7 days for declare the associated ECCS systems

b. With both channels inoperable, restore at least one channel to OPERABLE status within ene hour of declare the associated ECCS systems

ACTION 6

ACTION 6

ACTION 6

ACTION 6

LA SALLE - UNIT 2

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ITS 3.3.5.

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TABLE 3.3.3-2 (Continued) EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION SETPOINTS LF.1 LA SALLE - UNIT 2 Function ALLOWABLE TRIP SETPOINT TRIP FUNCTION VALUE LA.T LA.3 DIVISION 3 TRIP SYSTEM 31. HPCS SYSTEM Reactor Vessel Water Level - Low Low, Level 2 >- 50 inches >- 57 inches* ₹ 1/69 psig ₹ 56.5 inghes* ₹ 1.89 psiq Drywell Pressure - High b, Reactor Vessel Water Level - High, Level 8 ₹ 56 inches* add upper -Deleted Deleted limit 120 psig > 110 psig Pump Discharge Pressure - High ≥ 900 gpm A N.A. 1000 gpm HPCS System Flow Rate - Low M.4 Manual Intiation moved to ITS 3.3.8.1 LOSS OF POWER 1. 4.16 kV Emergency Bus Undervoltage (Loss of Voltage)# a. 4.16 kV Buses 2625 ± 131 volts with 2625 ± 262 volts with 1) Divisions 1 and 2 < 10 second time delay < 11 second time delay 2496 ± 125 volts with 2496 ± 250 volts with > 3 second time delay > 4 second time delay Division 3 2870 ± 143 volts with 2870 ± 287 volts with < 10 second time delay < 11 second time delay

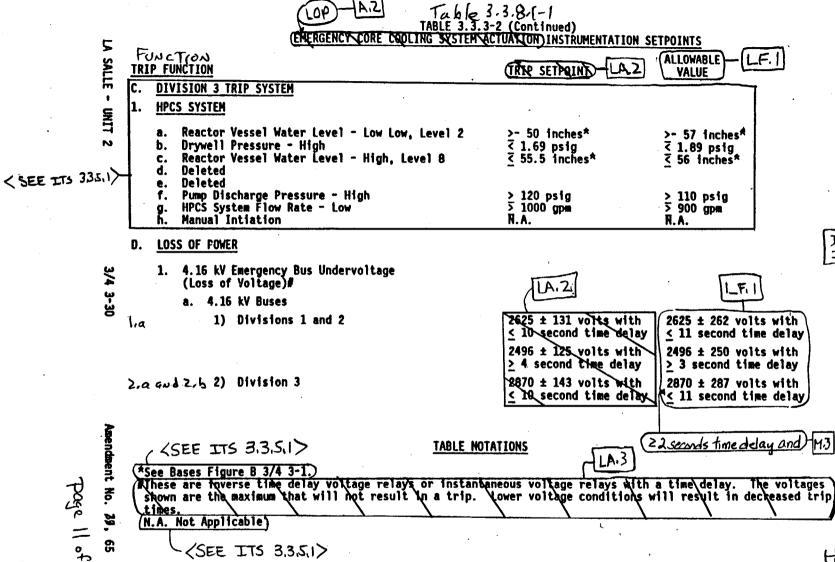
A.10

TABLE NOTATIONS

*See Bases Figure B 3/4 3-D These are inverse time delay voltage relays or instantaneous voltage relays with a time delay. The voltages shown are the maximum that will not result in a trip. Lower voltage conditions will result in decreased trip times.

N.A. Not Applicable

v W W



F

HX 3.3.8.1

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION SETPOINTS

TRIP FUNCTION

TRIP SETPOINT

ALLOWABLE ___VALUE

- D. LOSS OF POWER (Continued)
 - 2. 4.16 kV Emergency Bus Undervoltage (Degraded Voltage)
 - a. 4.16 kV Buses
 - 1) Divisions 1, 2 and 3

≥3863 and ≤3877 volts with 10 ± 1 seconds time delay with LOCA signal

5 ± 0.5 minutes time delay without LOCA signal

≥3814 and ≤3900 volts
with 10 ± 1 seconds time delay
with LOCA signal

Dr Dr

5 ± 0.5 minutes time delay without LOCA signal

AL

Moved to 1753.3.8.1

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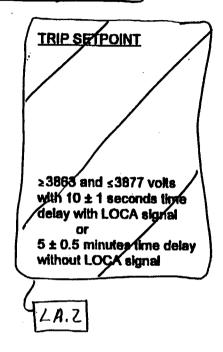
Table 3.3.8.1-1
TABLE 3.3.3-2 (Continued)

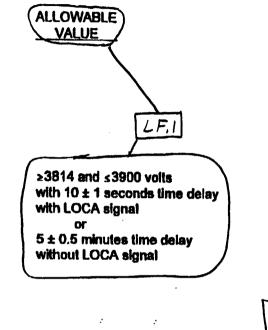
EMERGENCY PORE COOLING SYSTEM ACTUATION INSTRUMENTATION SETPOINTS

Function TRIP FUNCTION

- D. LOSS OF POWER (Continued)
 - 2. 4.16 kV Emergency Bus Undervoltage (Degraded Voltage)
 - a. 4.16 kV Buses
 - 1) Divisions 1, 2 and 3

1.b, 1.c, 1.d, 2.c, 2.d, 2.e





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LA SALLE - UNIT 2

3/4 3-30a

Amendment No. 120



TABLE 3.3.3-3

EMERGENCY CORE COOLING SYSTEM RESPONSE TIMES

ECC:	<u>S</u>	RESPONSE TIME (Seconds)
1.	LOW PRESSURE CORE SPRAY SYSTEM	≤ 60°, #
2.	LOW PRESSURE COOLANT INJECTION MODE OF RHR SYSTEM (Pumps A, B, and C)	≤ 60°, #
3.	AUTOMATIC DEPRESSURIZATION SYSTEM	NA NA
4.	HIGH PRESSURE CORE SPRAY SYSTEM	≤ 41 [#]
5.	LOSS OF POWER	NA NA

moved to ITS 3.5.1 and 3.5.2

#ECCS actuation instrumentation is eliminated from response time testing.

^{*}Injection valves shall be fully OPEN within 40 seconds after receipt of the reactor vesse¹ pressure and ECCS Injection Line Pressure Interlock signal concurrently with power source availability and receipt of an accident initiation signal.

TABLE 3.3.3-3

1	EMERGENCY CORE COOLING SYSTEM RE	SPONSE TIMES
ECC	<u>2</u>	RESPONSE TIME (Seconds)
1.	LOW PRESSURE CORE SPRAY SYSTEM	≤ 60°, #
2.	LOW PRESSURE COOLANT INJECTION MODE OF RHR SYSTEM (Pumps A, B, and C)	≤ 60°, #
3.	AUTOMATIC DEPRESSURIZATION SYSTEM	NA NA
4.	HIGH PRESSURE CORE SPRAY SYSTEM	≤ 41 [#]
(à	LOSS OF POWER	, AM
		(A.3)

< SEE ITS 3,35.1>

*Injection valves shall be fully OPEN within 40 seconds after receipt of the reactor vessel pressure and ECCS Injection Line Pressure Interlock signal concurrently with power source availability and receipt of an accident initiation signal. *ECCS actuation instrumentation is eliminated from response time testing.

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Amendment No. 99

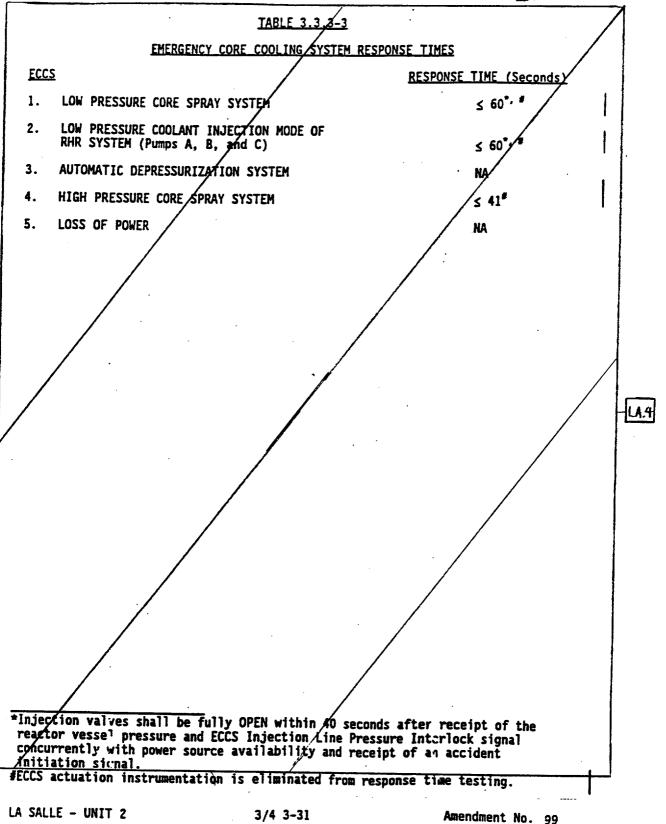
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TABLE 3.3.3-3 EMERGENCY CORE COOLING SYSTEM RESPONSE TIMES **ECCS** RESPONSE TIME (Seconds) ≤ 60% LOW PRESSURE CORE SPRAY SYSTEM 1. LOW PRESSURE COOLANT INJECTION MODE OF RHR SYSTEM (Pumps A, B, and C) 2. 60*, 1 AUTOMATIC DEPRESSURIZATION SYSTEM 3. NA HIGH PRESSURE CORE SPRAY SYSTEM 4. ≤ 41# LOSS OF POWER 5. NA LA.4 *Injection valves shall be fully OPEN within 40 seconds after receipt of the reactor vesse pressure and ECCS Injection Line Pressure Interlock signal concurrently with power source availability and receipt of an accident /initiation signal.

#ECCS actuation instrumentation is eliminated from response time testing. -SR 3.5.1.9 NOTE LA SALLE - UNIT 2

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Amendment No. 99



- SR 3.5.2.7 NoT€

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

	CTION	SR 3.3.5.1.1 Channel Check	SR 3.3.5.1, Z CHANNEL FUNCTIONAL TEST	(x, 3, 5, 1, 3 SR 3, 3, 5, 1, 4 CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
A. DI	VISION THIP SYSTEM				LETT
/ 1. RH	R-A (LPCI MODE) AND LPCS SYSTEM			24 mon	(A1)
9, a. b. b. g. d.	Low Low Low, Level 1 Drywell Pressure - High LPCS Pump Discharge Flow-Low	s Na Na	Ø Ø	4-8-3	1, 2, 3, 4*, 5* 1, 2, 3 1, 2, 3, 4*, 5*
A	Interlock	NA	Q	4-00	1, 2, 3, 4*, 5*
C, £.		NA	Q	4-00	1, 2, 3, 4*, 5*
f_i g.	Relay LPCI Pump A Flow-Low Manual Initiation	NA NA NA	Q Q Q	Q-3 Q-3 NA	1, 2, 3, 4*, 5* 1, 2, 3, 4*, 5* 1, 2, 3, 4*, 5*
4 2. AU	TOMATIC DEPRESSURIZATION SYSTEM TRIP S	YSTEM 'A'	LD.17	1	
a. a.	Reactor Vessel Water Level - Low Low Low, Level 1	8	Q	4-00	1, 2, 3
	Drywell Pressure-High	NA	Q	4-00	1, 2, 3
4 ,	Initiation Timer	NA	Q	Q-3/	1, 2, 3
a, d.	Reactor Vessel Water Level - Low, Level 3	S	Q [*]	4-00-1	1, 2, 3
ė. e.	LPCS Pump Discharge Pressure-High	NA	· Q	4-@	1, 2, 3
ℓ_i .					
h. g.	Drywell Pressure Bypass Timer	NA LD.II NA		4-@± Na Q-3	1, 2, 3 1, 2, 3 1, 2, 3
· (1.	Manual Inhibit	NA	R	ÑA	1, 2, 3
		· · · · · · · · · · · · · · · · · · ·			TRI

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TABLE 3.3.5.1-1 TABLE 3.3.5.1-1 (Continued) EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION SURVEILL

MIDNOMICA LOND LOUDING	DISTEM ACTUATI		SURVEILLANCE RE	<u>OUIREMENTS</u>	
+	SR 3,3,5,1,1	SC 3.3, 5.1.2 CHANNEL	5R 3.3.51.3		
Function	CHANNEL	FUNCTIONAL	SR 3, 3, 5, 1, 4 CHANNEL	OPERATIONAL	_
TRIP FUNCTION	CHECK	TEST	CALIBRATION	CONDITIONS FOR WHICE SURVEILLANCE REQUIRE	i Po
				BUNTELDIANCE RECOIR	all.
B. DIVISION 2 TRIP SYSTEM					
B. MITISIUM A TRIP SISTEM				LE.	
2 1. RHR B AND C (LPCI MODE)			111		
			24 months	23	•
G: a. Reactor Vessel Water Level -				٨	
Low Low Low, Level 1	S	0	Non-K	3 3 3 40 50	
b. b. Drywell Pressure - High	NA	Q O		1, 2, 3, 4*, 5* 1, 2, 3	1
f. c. LPCI B and C Injection Valve		-	18-4	1, 8, 3	1
Injection Line Pressure Low Interlock			No.	•	1
C, d. LPCI Pump B Start Time Delay	NA	Q	10-4	1, 2, 3, 4*, 5*	1
Relay	NA	_			
e. LPCI Pump Discharge Flow-Low	NA ·	Q	Q-3	1, 2, 3, 4*, 5*	
7, f. Manual Initiation	NA NA	1511 10 109	Q-3	1, 2, 3, 4*, 5* 1, 2, 3, 4*, 5* 1, 2, 3, 4*, 5*	1
d g. LPCI B and C Injection Valve	5-5-5	LD.11-12-12.9	NA.	1, 2, 3, 4*, 5*	
Reactor Pressure Low Interlock	NA	Q	W-4	1, 2, 3, 4*, 5*	1
5 2. AUTOMATIC DEPRESSURIZATION SYSTEM TO			• '	-, -, -, -, -, -, -, -, -, -, -, -, -, -	1
5 2. AUTOMATIC DEPRESSURIZATION SYSTEM TRI	P SYSTEM B		•	<u></u>	٦.
9, a. Reactor Vessel Water Level -		•		\\\\ \mathref{\Pi}	1
Low Low Low, Level 1	8	0	127-V	, , , E	<u>l</u>
b. Drywell Pressure-High	NA	õ	¥8_4	1, 2, 3 1, 2, 3	7
C. C. Initiation Timer	NA	Õ	1.8-3	1, 2, 3	i
d, d. Reactor Vessel Water Level - Low, Level 3	S	Q	TO-U	1, 2, 3	ı
€, e. LPCI Pump B and C Discharge			100		1
Draggura Wah	NA	[LO] O			1
f. Manual Initiation f. g. Drywell Pressure Bypass Timer	. NA	A.97	* 4 NA	1, 2, 3	1
7. g. Drywell Pressure Bypass Timer	NA NA	1	0-3	1, 2, 3	
h. Manual Iphibit	/ NA	7 R	NA	1, 2, 3	
				-, -, -	•
		• •		1011	
•				<u>[C·</u> /	

Table 33.5.1-1

EMERCENCY CORE	TABLE 4.3.3.1-1 (Continued)	
ENERGENCY CORP	COOLING SYSTEM ACTUATION INSTRUMENTATION SURVEILLANCE RE	COUTEFACE

TRIP FUNCTION	SR 3351, 1 CHANNEL CHECK	SR > 35//2 Channel Functional Test	SR 3.3 5.1.4 SR 3.3.5.1.4 CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
3, 1. HPCS SYSTEM Q, a. Reactor Vessel Water Level -			24 months	LE.I
Low Low, Level 2 b, b. Drywell Pressure-High c. Reactor Vessel Water Level-High	s Na	Q Q	10 -Y	1, 2, 3, 4*, 5* 1, 2, 3
Level 8 -d. Deleted dDeleted	S	Q	-4	1, 2, 3, 4*, 5*
f. Pump Discharge Pressure-High g. HPCS System Flow Rate-Low h. Manual Initiation	na Na Na	[LD.] (B) [A.7]	Q-4 Q-3 NA	1, 2, 3, 4°, 5° 1, 2, 3, 4°, 5° 1, 2, 3, 4°, 5°
D. LOSS OF POWER				
1. 4.16 kV Emergency Bus Under- voltage (Loss of Voltage)	NA	NA	R	1, 2, 3, 4**, 5**
2. 4.16 kV Emergency Bus Under- voltage (Degraded Voltage)	NA	NA	R	1, 2, 3, 4**, 5**
Note (c) to Table 23.5.1-1)		A.6 more	a to 338.1	

TABLE NOTATIONS

150

(#Not required to be OPERABLE when reactor steam dome pressure is less than or equal to 122 psig.

(*When the system is required to be OPERABLE after being manually realigned, as applicable, per

Specification 3.5.2.

**Required when ESF equipment is required to be OPERABLE.

A.6 Moved to 255 3.3.8.1

Note (a) to

Table 3.3.5.1-1

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in M

Table 3.38(-)

Table 4.3.1.1-1 (Continued)

EMERGENCY GORE COOKING SYSTEM ACTUATION DINSTRUMENTATION SURVEILLANCE REQUIREMENTS

TR	CONCTION IR FUNCTION (SEE ITS 3,3,5,1)	CHANNEL CHECK	CHANNEL FUNCTIONAL TEST	Se),3.8.(.) SR33.97.2 CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
1.	DIVISION 1 TRIP SYSTEM HPCS SYSTEM	~			
	 a. Reactor Vessel Water Level - Low Low, Level 2 b. Drywell Pressure-High c. Reactor Vessel Water Level-High Level 8 	S NA	Q Q	R Q	1, 2, 3, 4*, 5* 1, 2, 3
	d. Deleted e. Deleted f. Pump Discharge Pressure-High g. HPCS System Flow Rate-Low	S NA NA	Q Q	Q	1, 2, 3, 4*, 5*
D.	h. Manual Initiation LOSS OF POWER	NA NA	R R	Q NA	1, 2, 3, 4*, 5* 1, 2, 3, 4*, 5* 1, 2, 3, 4*, 5*
la, 2.a, 2.6	 4.16 kV Emergency Bus Under- voltage (Loss of Voltage) 	NA	NA		1, 2, 3, (4**, 5**)
1.6, 1.c, 1.d, 2.c, 2.d, 2.	2. 4.16 kV Emergency Bus Under- voltage (Degraded Voltage)	NA	NA	THE STATE OF THE S	1, 2, 3, 4**, 5** 1, 2, 3, 4**, 5**
			· .	LD.1 LE.1	M.I
					•

KSEE ITS 3.3.5.1>

TABLE NOTATIONS

**Not required to be OPERABLE when reactor steam dome pressure is less than or equal to 122 psig.

**When the system is required to be OPERABLE after being manually realigned, as applicable, per

**Specification 3.5.2.*

**Required when ESF equipment is required to be OPERABLE.

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	LNSTRUMENT	ATION	/A.11	Specification	22.12
•	3/4.3.4 R	ECIRCULATION PUMP TRIP	ACTUATION INSTR	UMENTATION PECIFICATION	3.3.4.2
•	ATWS RECIR	CULATION PUMP TRIP SYST	TEM INSTRUMENTAT	ION	
	LIMITING C	ONDITION FOR OPERATION		······································	
3.3.4.2	(ATWS-RPT)	system instrumentation	channels shown	recirculation pump trip in Table 3.3.4.1-1 shall twith the values shown in	be IA/I
	APPLICABIL	ITY: OPERATIONAL CONDI	TION 1.		- CO
	ACTION:	Add propose ACT	ions note)_		1A.21
Астіо В , 1	and C	Values column of Table	servative than the 3.3.4.1-2, declarations of the servation of the servati	ystem instrumentation char he value shown in the Allo are the channel inoperable BLE status with its trip	nnel
Ac	A Noite	with the number of OPER Minimum OPERABLE Channe both trip systems. Place condition within (24 hox	LABLE Channels of the labele channels of the	ed Required Action A.1) ne less than required by the requirement for one of channel (s) in the trippe add proposed Note to Require	the A.3
		With the number of OPER By the Minimum OPERABLE	ABLE channels to	o or more less than require System requirement for	red LB.I
Cond	lition A t	rip system and:		Add propose DNote to Programmed Ac	
	Required Action Ac	both inoperable ch	channels consist one reactor vess annels in the traction will in	of one reactor vessel was sel pressure channel, placing ipped condition within thin the change a pump trip/declar	e Hay
	Reguired Action Al	the trip system in	operable:	two reactor vessel water sel pressure channels, dec	Jare
	7.5	ith one trip system in o OPERABLE status with he next 6 hours.	operable, restor in 72 hours for at	e the inoperable trip system at least STARTUP with	hin
	TONCE. IN	ith both trip Gystem	inoperable, rest	ore at least one trip in at least STARTUP within	
Ac	TION DIT	ext 6 hours.	<u> 1</u>	Add proposed Regular Ac	
SRS 3.3.4	2.1, 3.3.4, 1.3.4.1.1	E RECUIREMENTS 2.2, 3.3,7,2,3 Each ATWS recirculation	n Dump trip syst		1 3
/ C	HANNEL FUN			em instrumentation channe of the CHANNEL CHECK, perations at the frequenc	
215 33	4,2,4 1.3.4.1.2		L TESTS and simut least once per	lated automatic speration	<u>A4</u>)
	·			(24)	LD.I

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ATWS RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION

TRI	FUNCTION	PER TRIP SYSTEM (a)
LCO 3.3 4,2,21.	Reactor Vessel Water Level - Low Low, Level 2	2
4ca 2.242 h 2.	Reactor Vessel Pressure-High	2

Pase 6 of 8

. Note to Surveillance Requirements

(a) One channel in one trip system may be placed in an inoperable status for up to 6 hours for required surveillance provided that all other channels are OPERABLE.

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Specification 3.3,4.2

TABLE 3.3.4.1-2

ATWS RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION SETPOINTS ALLOWABLE VALUE TRIP SETPOZNT TRIP FUNCTION SR 37, 11, 2.3 ≥- 57 inche® 1A.5 Reactor Vessel, Water Level -Low Low, Level 2 >-/50 inches 512 3.2.4, 2.3 Reactor Vessel Pressure-High < 1150 psig

Specification 3.3.4,2

ATWS RECIRCULATION PUMP TRIP ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENT

<u> </u>	P. FUNCTION	SR 3.3.4.2, CHANNEL CHECK	SR 3.3.4, Z. 2 CHANNEL FUNCTIONAL TEST	SR 3.3.4.2.3 CHANNEL CALIBRATION
LCO 3.3.4.2, q ₁ .	Reactor Vessel Water Level - Low Low, Level 2	s	Q	(24 months)
Leo 3,3,4.2,b 2.	Reactor Vessel Pressure - High	s	Q .	

Specification 3,3.4,2

TUZ I KŪME	NULLAIN		Specificatio-	ر لہ 23
END-OF-C	YCLE RECIRCULATION	PUMP TRIP SYSTEM I	NSTRUMENTATION	J. J.=1.
LIMITING	CONDITION FOR OPE	RATION	add proposed LCO 3.3	4.1.b)-[A.2]
setpoint Table 3.3	nneis snown in lab	le 3.3.4.2-1 shall ith the values show he END-OF-CYCLE REC	trip (EOC-RPT) system in be OPERABLE with their to in the Trip Setpoint of IRCULATION PUMP TRIP SYS	1103
APPLICAB	ILITY: OPERATIONAL	CONDITION 1. where	THERMAL POWER is greate	r than or
equal to	25% of RATED THER	MAL POWER	with any recirculation	n Oump)
ACTION:		d ALTIONS Note	Infast'speed	1-12
ALTIONS A and B	Allowable Values inoperable until	point less conservat column of Table 3.3 the channel is rest	oump trip system instrum tive than the value show B.4.2-2. declare the char cored to OPERABLE status with the Trip Serpoint	n in the nnel with the
b. Action _A	Minimum OPERABLE	Channels per Trip S ce the inoperable o	one less than required ystem requirement for or hannel(s) in the tripped	ne or both
CONDITION	With the number of by the Minimum OP one trip system a	ERABLE Channels per	two or more less than r Trip System requirement red Action A.1 and Require	(s) for [M.]
Required Action A.Z	channel and	rable channels cons one turbine stop va	ist of one turbine contribute channel, place both ped condition within	ol valve
Required Action A.	2. If the inope channels or System inope	two turbine stop va	ude two turbine control lve channels declare th	valve e trip [1,3]
Actions d. .A and B	With one trip Systo OPERABLE statu	tem inoperable, res s within 72 hours.	tore the inoperable trip otherwise, either:	Skten 4.4
Regulary B.Z.	for Operation	MINIMUM CRITICAL PA n (LCO) to the EOC- .3 within the next	OWER/(MCPR) Limiting Con RPT inoperable value per Phour, or	dition Speci-
Reguired Action C2	2. Reduce THERM within the ne	AL POWER to less the ext of hours.	an 25% of RATED THERMAL	POWER
ACTIONS e. Aand B	With both trip (\$\frac{1}{2}\) to OPERABLE status	stems inoperable, res within phones oth	estore at least one trip nerwise, either:	(2.1)
Regulared Action B.2	TOP Uperation	MINIMUM CRITICAL PO 1 (LCO) to the EOC-F .3 within the next	OWER (MCPR) Limiting Cond OPT inoperable value per Chour, or	dition Speci-
Roguind Action C.Z	2. Reduce THERM the next 6 ho	AL POWER to less that	in 25% RATED THERMAL POW	ER within
*	آ آ ر	刊———		M2
LA SALLE -	UNIT 2	3/4 3-39	Amendment I	No. 114
Add Re	guired Action C	1/2/		

INSTRUMENTATION

[A.I] -

SURVEILLANCE REQUIREMENTS

5R 3.3.4.1.1 4.3.4.2.1 Each end-of-cycle recirculation pump trip system instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL SR 3.3.4.1.2 FUNCTIONAL TEST and CHANNEL CALIBRATION operations at the frequencies shown in Table 4.3.4.2.1-1.

5R33.4.1.3 4.3.4:2.2 LOGIC SYSTEM FUNCTIONAL TESTS and shall all channels shall be performed at least once per (8) months.

\$23.41.5 4.3.4.2.3 The EMO-OF-CYCLE RECIRCULATION PUMP TRIP SYSTEM RESPONSE TIME of each trip function shown in Table 3.3.4.2-3 shall be demonstrated to be within logic of one type of channel input, turbine control valve fast closure or turbine stop valve glosure, such that both types of channel inputs are tested at least once per 36 wonths. The time allotted for breaker arc suppression \$523.4.1.1 (shall be verified by test at least once per 60 wonths.

Add Note 1 to SR 3.3.4.1.5 - [A.6] Add Note 2 to SR 3.3.4.1.5 - [A.7]

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END-OF-CYCLE RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION

TRIP FUNCTION

160 33411a

- 1. Turbine Stop Valve Closure
- 2. Turbine Control Valve Fast Closure

MINIMUM

OPERABLE CHANNELS

PER TRIP SYSTEM® Surveillance

Resumment



Note to Surveillance Requirements

(a) A trip system may be placed in an inoperable status for up to 6 hours for required surveillance provided that the other trip system is OPERABLE.

(b) This function shall not be automatically bypassed when THERMAL POWER is greater than or equal to 25% of RATED THERMAL POWER.

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END-OF-CYCLE RECIRCULATION PUMP TRIP SYSTEM SETPOINTS

INTERPOLITION

IRIP FUNCTION

IN Turbine Stop Valve-Clesure

2. Turbine Control Valve - Fast Closure

END-OF-CYCLE RECIRCULATION PUMP TRIP SYSTEM SETPOINTS

ALCOMABLE

VALUE

2.7% closed

2.414 paig

2.414 paig

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Specification 33,41

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L6 >

END-OL-CACITE BECINCH VILON LING TRIP SYSTEM RESPONSE TIME IVBLE 3,3,4,2-3

EESPONSE TIME (MI)] Leeconds)

LCO 3.3.4.1a TRIP FUNCTION		CHANNEL FUNCTIONAL TEST	SR 3,3,4,1,2 CHANNEL CALIBRATION	
 1.	Turbine Stop Valve Closure	Q .	R	
2.	Turbine Control Valve-Fast Closure	Q		
			(24 months)	
		•	4TE.N	

SR 3.3.4.1.4

At least once per (8) months, verify Turbine Stop Valve - Closure and Turbine Control Valve - Fast Closure Trip Functions are not bypassed when THERMAL POWER is \geq 25% of RATED THERMAL POWER. Specification 4.0.2 applies to this (18) month interval.

LA SALLE - UNIT 2

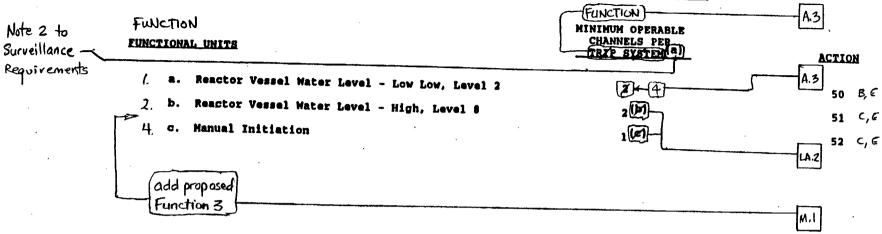
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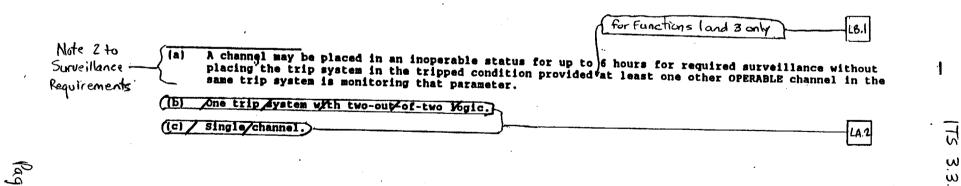
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INSTRUMENTATION REACTOR CORE ISOLATION COOLING SYSTEM ACTUATION INSTRUMENTATION LIMITING CONDITION FOR OPERATION 3.3.5 The reactor core isolation cooling (RCIC) system actuation instru-mentation channels shown in Table 3.3.5-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.3.5-2. 100 3.3.5.2 APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3 with reactor steam dome pressure greater than 150 psig. add proposed Actions Mote ACTION: (With a RCIC system actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of Table 3.3.5-2, declare the channel inoperable until the channel is restored to OPERABLE status with its trip setpoint adjusted consistent with the Trip Setpoint value. ACTIONA With one or more RCIC system actuation instrumentation channels inoperable, take the ACTION required by Table 3.3.5-1. SURVEILLANCE REDUIREMENTS Note 1 to. Surveillance 4.3.5.1 Each RCIC system actuation instrumentation channel shall be quirements demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations at the frequencies shown in (Table (4.3.5.1-1. 4.3.5.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all channels shall be performed at least once per (18) months. LD.Ī

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REACTOR CORE ISOLATION COOLING SYSTEM ACTUATION INSTRUMENTATION





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in

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TABLE 3.3.5-1 (Continued)

A.I

REACTOR CORE ISOLATION COOLING SYSTEM ACTUATION INSTRUMENTATION

ACTION 50 - With the number of OPERABLE channels less than required by the ACTION B Minimum OPERABLE Channels per Trip System requirement: a. For one trip system, place the inoperable channel in the	M.2
ACTION E inoperable.	1
ACTIONS B and E b. For both trip systems, declare the RCIC system inoperable.	1
ACTION 51 - With the number of OPERABLE channels less than required by the minimum OPERABLE Channels per Trip System requirement, fisclare the ACTION E RCIC system inoperable (within 24 hours).)
ACTION 52 - With the number of OPERABLE channels less than required by the ACTION 62 - With the number of OPERABLE channels less than requirement, restore the	.4
inoperable channel to OPERABLE status within 24 hours or declare the RCIC system inoperable.	ļ
(add proposed ACTION D)	1.N

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Table 3.3.5.2-1 TABLE 3.3.5-2

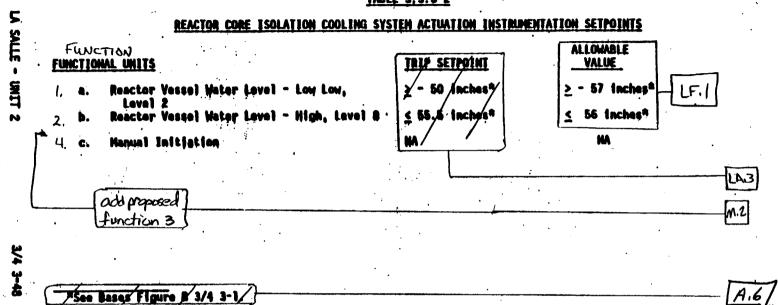


Table 3.3.5.2-1

REACTOR CORE ISOLATION COOLING SYSTEM ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENT

•			enal units	CHANNEL CHECK	SR 3-3-5.2.Z CHANNEL FUNCTIONAL TEST	SR 3.3.5.2.3 CHANNEL CALIBRATION
	1.	a.	Reactor Vessel Water Level - Low Low, Level 2	NA	Q	(24 months) LE.(
~	2.	b.	Reactor Vessel Water Level - High, Level 8	S	Q	P LE.I
	4.	c.	Hanual Initiation	NA		NA (
		م	Ad occurat			A.5
L		1 50	dd proposed ()			m.2

LIMITING CONDITION FOR OPERATION

[CO 33.2.] 3.3.6 The control rod withdrawal block instrumentation channels shown in Table 3.3.6-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.3.6-2.

APPLICABILITY: As shown in Table 3.3.6-1.

ACTION:

ACTIONS A MO G a. With a control rod withdrawal block instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of Table 3.3.6-2, declare the channel inoperable until the channel is restored to OPERABLE status with its trip setpoint adjusted consistent with the Trip Setpoint value.

ACTIONS A ANO B With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirement, take the ACTION required by Table 3.3.6-1.

SURVEILLANCE REQUIREMENTS

Note 1 to 4.3.6 Each of the above required control rod withdrawal block trip systems Surveillances and instrumentation channels shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST* and CHANNEL CALIBRATION operations for the OPERATIONAL CONDITIONS and at the frequencies shown in Table 4.3.6-1.

M.1

Note 2 to * A channel may be placed in an inoperable status for up to 6 hours for Sugneticables required surveillance. On 12 hours for repair without placing the trip system in the tripped condition provided at least one other OPERABLE channel in the same trip system is monitoring that parameter.

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Table 3.3.2.1-1 TABLE 3.3.6-1 CONTROL ROD WITHDRAWAL BLOCK INSTRUMENTATION

	Function TRIP FUNCTION TLA.1	MINIMUM OPERABLE CHANNELS PER TRIP FUNCTION	APPLICABLE OPERATIONAL CONDITIONS	ACTION
1.a 1.b 1.c	a. Upscale b. Inoperative c. Downscale	2 2 2	A.Z	60 ACTIONS 60 A and B
	APRM Flow Biased Simulated Thermal Power-Upscale b. Inoperative c. Downscale d. Neutron Flux-High], 2, 5 2, 5	61 61 61 61
M.5	3. SOURCE RANGE MONITORS a. Detector not full in(b) b. Upscale(c) c. Inoperative(c) d. Downscale(d)	3232323	25252525	61 61 61 61 61 61 61 61
Add proposed Function 3 of Table 3.3.2.1-1	4. INTERMEDIATE RANGE MONITORS a. Detector not full in b. Upscale c. Inoperative d. Downscale(e)	66666	2, 5 2, 5 2, 5 2, 5	61 61 61 61
Page	5. SCRAM DISCHARGE VOLUME a. Water Level-High b. Scram Discharge Volume Switch in Bypass 6. RECTROULATION FLOW UNIT	2 1	1, 2, 5**	62 62
ઇ જે છે.	a. Upscale b. Inoperative c. Comparator	2222	1	62 62 62 62 62

CONTROL ROD WITHDRAWAL BLOCK INSTRUMENTATION

ACTION

ACTIONS ACTION 60 - Declare the RBM inoperable and take the ACTION required by R.IIA and B Specification 3.1.4.3. ACTION 61 - With the number of OPERABLE channels: One less than required by the Minimum OPERABLE Channels per Trip Function requirement, restore the inoperable channel to OPERABLE status within 7 days or place the inoperable channel in the tripped condition within the next hour. Two or more less than required by the Minimum OPERABLE Channels per Trip Function requirement, place at least one inoperable channel in the tripped condition within one hour. ACTION 62 - With the number of OPERABLE Channels less than required by the Minimum OPERABLE Channels per Trip Function requirement, place the inoperable channel in the tripped condition within 12 hours. NOTE Table 3,3,2.1-1 and no peripheral A.2 with THERMAL POWER ≥ 30% of RATED THERMAL POWER! (Control rod selected) Note (a). With more than one control rod withdrawn. Not applicable to control rods removed per specification 3.9.10.1 or 3.9.10.2. R.I The RBM shall be automatically bypassed when a peripheral control hod is selected. This function shall be automatically bypassed if detector count rate ! 2 100 cps or the IRM channels are on lange 3 or higher. |R. | That function shall be automatically by bassed when the aspociated IRM channels are on range 8 or higher. This function shall be automatically bypas ded when the IRM channels are on range 3 or higher. This fundtion shall be automatically bypassed when the IRM channels are on range

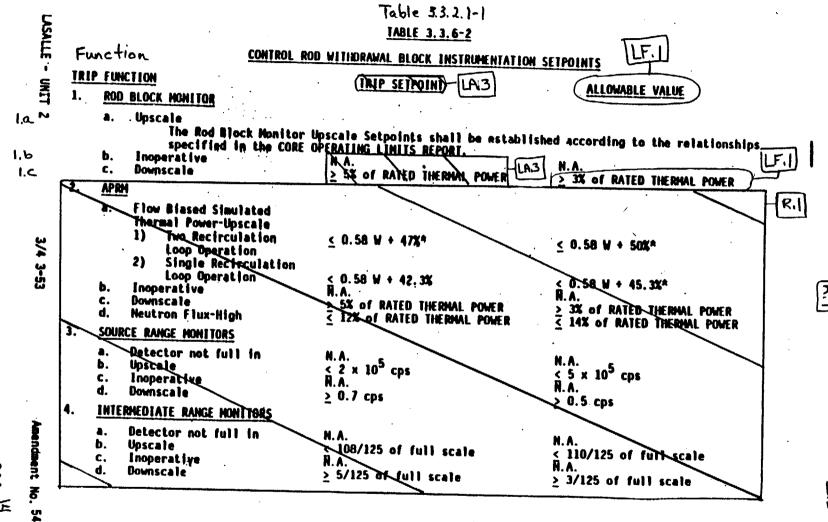
Add proposed ACTION E

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TTS 3.3.2.

CONTROL ROD WITHDRAWAL BLOCK INSTRUMENTATION SURVEILLANCE REQUIREMENT

	CHURAWAL BLOCK IN	STRUMENTATION SU	RVEILLANCE REQUIREME	NTS .	
Function		SR 3.3.2, 1.1 CHANNEL	SR 3.3.2.1.4		
	CHANNEL	PUNCTIONAL	•	OPERATIONAL	
TRIP_FUNCTION	CHECK	TEST		CONDITIONS FOR WHI SURVEILLANCE REQUI	ICH BBD
					VED
1. ROD BLOCK MONITOR		45.11	Mote	(A.2)	1
a. Upscale	N.A.	EVUIDICE)	SR 3.3.	2.1.4)	
b. Inoperative	N.A.	sy (b) (c)	4/2/I X	— /1 <u>+</u>	1
I.C C. Downscale	N.A.	s/thi (c)	N.A.	1 12.1	١ .
2 APRH			Q Q	(R, I	1
Flow Biased Simulated		·			
Shermal Power-Upacale	N.A.	> a(a(b) =	•		
b. Inoperative	N.A.	Byn(b) .0	SA	7	ŀ
C. Downscale	N.A.	S (d) O	N.A. Sa	1. 2. 5	- 1
d. Neutron Flox-High	N.A.	s/u(p) · 0 s/u(p) · 0 s/u(p) · 0	SA SA	2***, 5	
3. SOURCE RANGE MONITORS				4, 3	i
a. Detector not full in		(b)			
b. Upscale	N.A. N.A.	8/0(p) , W	N.A.	2***, 5	ľ
c. Inoperative	N.A.	8/U(b) , W	0	2***, 5	<u></u>
d. Downscale	W.A.	8/U(b),W W,(d)U\8 W,(b),W S/U(b),W	N.A.	2***, 5	121
4. INTERMEDIATE BANGE MONITORS		-,- ,	*	2***, 5	
4. INTERMEDIATE RANGE MONITORS a. Detector not full in		/ h1			
b. Upscale	N.A. N.A.	B/U(b), H	N.A.	344. 5	1
c. Inoperative	N.A.	SW(D) W	Q N.A.	2	1
d. Downscale	N.A.	8/U(b).W W.(d)U/S W.(d)U/S	0	2***, 5	
5. SCRAM DISCHARGE VOLUM	•	3/10	• .	2***, 5	
5. <u>SCRAM DISCHARGE VOLUME</u> a. Water Level-High				.•	- 1
b. Scram Discharge Volume	N.A.	Q	R	1, 2, 5	
Switch in Bypass	N.A.	•			
		Ω	N.A.	5**	
6. REACTOR COOLANT SYSTEM RECIRCUL	ATION FLOW				1
i a. upscale	N.A.	s/u(b),Q Q,(d),Q Q,(d),Q	Q		
b. Insperative c. Comparator	N.A.	S/U(b),Q	Ñ.A.		
c. comparator	N.A.	e(a(b)'g	Q	$i \setminus I$	l l
					-
(Add proposed SR 3.3,1.2,5)	M.2				•
(Add proposed SR 3.3.1.1.7)	(M.5)				1_1
	استنسا				П
					IA

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7 5.C CIT

CONTROL ROD WITHDRAWAL BLOCK INSTRUMENTATION SURVEILLANCE REQUIREMENTS

TABLE NOTATIONS Note to SR 3,3,2,1,4 (a) Neutron detectors may be excluded from CHANNEL CALIBRATION. Within M hours prior to startup, if not performed within the previous days. Functions (c) Appludes reactor manual control multiplexing system input. and no peripheral Control rod selected LA.Z With THERMAL POWER ≥ 30% of RATED THERMAL POWER. With more than one control rod withdrawn. Not removed per Specification 2.9.10.1 or 3.9.10.2. Not applicable to contaol rods Table 3.3.2.1-1 The provisions of Specification 4.0.4 are not applicable for a period 24 hours after intering OPERATIONAL CONDITION 2 or 3 when shutting down from OPERATIONAL CONDITION 1. Note(a)

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INSTRUME	NTATION	(A.1)	•	ITS 3.3	7.1
3/4.3.7	MONITORING INSTRUMENTATI	ON Contro	1 Room	\	
	MONITORING) INSTRUMENTAT	ION Area Filtra	tion (CRAF))- A 2	
	CONDITION FOR OPERATION				
L(0 3.3.7.] 3.3.7.1 3.3.7.1- specifie	The <u>radiation monitoring</u> 1 shall be OPERABLE* with d limits:	Dinstrumentation their alarm/tr	on channels show rip setpoints wi	thin the	
<u>APPLICAB</u>	ILITY: As shown in Table	3.3.7.1-1.		\mathcal{T}	•
ACTION:	add proposed	ACTIONS A		/	
ACTION A	With a radiation monitor setpoint exceeding the setpoint to within the inoperable.	value shown in	Nours of declar	e the channel	Mil
ACTIONA b:	With one or more radia ACTION required by Tab	Te 3.3.7.1-1.		able, take the	2
<u>(c.</u>	The provisions of Spec	ification 3.0.3	are not applica	ble	1, 4
SURVEILL	ANCE REQUIREMENTS		CF	AF System	A. Z.
channels	Each of the above requisions shall be demonstrated OCHANNEL FUNCTIONAL TEST abons and at the frequencie	PERABLE by the Ind CHANNEL CALL	BRATION operation	THE CHANNEL	
SR 3.3.	7./.1			•	
5 R 3 3. 5 R 3, 3	• =				
3 10 31 7	, , , , , ,	•			
ı					
•					
			[A,5]	, .	
			- Anros	TONAL COODITION	
*The no or 5 o	rmal of emergency power some when defueled.	ource may be ino	perable in UPERA	TOWAL CONDITION	<u>'</u>

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				•	•	
		•				
٠.			• .		A.2	. •
				TABLE 3.3.7.1-1	T	•
			<u>rad</u>	IATION MONITORING INSTRUMENTATION SR 3.3.7.1.3	Allowable Value	,
		INSTRUMENTATION	MINIMUM CHANNELS OPERABLE		SUPEMENT LAIT NOTE ACTION]
. .	L(0 3.3.7.1)	a. Main Control Room Atmospheric Control System Radiation Monitoring Subsystem	2 per trip system/train (intake)**	LIFT LIFT	to 10,000 mR/hr 70 A,	3
	,			add proposed 3rd and w	1th Applicability	
	2.1			TABLE HOTATIONS		1=1
	Applica bell	h		TABLE NOTATIONS	•	
	Marion	/~~A Channel may be blaced	in an inoperable s	he secondary containment. tatus for up to 6 <u>hours fo</u> r requir	ad survaillance testing	
	Note to Surveillance	without placing the Tri in the same Trip System	p System in the tri	oped condition, provided at least	one other operable channe	D
	Requirements)				M.2	
	//24		e intrip in L.2	ACTION STATEMENT add propose	of Required Action Ail)
	ACTION A	ACTION 70 - With the n the inoper	umber of OPERABLE c able channel in the	hannels per trip system one less t tripped condition within one hour	76)	place
		b. With both	channels in a trip s	vstem inonerable declare the trip	(b)Lis.	
			in operation of the	RABLE status within 7 days or, wi control room emergency filtration s		
<u> </u>		}	VII.		h_[L2]	
ar	ACTION (c. Otherwise, pressuriza	initiate and mainta tion mode of operat	in operation of the control room emion within 1 hour. \(\tau\)	ergency filtration system	in the
%				add proposed Reguir	A A Gan B 2	
01		:		and proposed requir	The state of the s	H
+					1L12]	ス
						M
				•	•	νζ <i>V</i> ,
				•		

RADIATION MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

		INSTRUMENTATION	SR 3, 3, 7, 1, 1 CHANNEL _CHECK_	SR 33.7./ CHANNEL FUNCTIONAL TEST	CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
LCO 3.3.7.1	a.	Main Control Room Atmospheric Control System Radiation Monitoring Subsystem	 s	Q	P	1,2,3 (5) and ,*
				24 mon	ths LE.I	old proposed 3rdand) of Applicability Lill

2rd
Applicability (*When irradiated fuel is being handled in the secondary containment.

*

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METEOROLOGICAL MONITORING VISTRUMENTATION*

LIMITING CONDITION FOR OPERATION

3.3.7.3 The meteorological monitoring instrumentation channels shown in Table 3.3.7.3-1 shall be OPERABLE.**

APPLICABIL NY: At all times.

ACTION:

- a. With one or more meteorological monitoring instrumentation channels inoperable for more than 7 days, prepare and submit a Special Report to the Commission pursuant to Specification 6.6.C within the next 10 days outlining the cause of the malfunction and the plans for restoring the instrumentation to OPERABLE status.
- b. The provisions of Specification 3.0.3 are not applicable.

SUNVEILLANCE REQUIREMENTS

4.3.7.3 Each of the above required meteorological monitoring instrumentation channels shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK and CHANNEL CALIBRATION operations at the frequencies shown in Table 4.3.7.3-1.

^{*}The Meteorological Monitoring Instrumentation System is shared between La Salle Unit 1 and La Salle Unit 2.

^{**}The normal or emergency power source may be inorerable in OPERATIONAL CONDITION 4 or 5 or when defueled.

	TABLE 3.3.7.3-1 METEOROLOGICAL MONITORING INSTRUMENTA	TSON	•
INSTRUME	ENT Wind Speed	MINEMUM INSTRUMENTS OPERABLE	[e]
b.	1. Elev. 200 ft. and 375 ft. Wind Direction	l each	_(R.I_)
6	1. Elev. 200 ft. and 375 ft. Air Temperature Difference	1 each	
<u> </u>	1. Elev. 33/200 ft. or Elev. 33/375 ft	1	

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-Ril		
TABLE 4.3.7.9c	1	
METEOROLOGICAL MONITORING INSTRUMENTATION	N SURVETLLAN	CE REQUIREMENTS
INSTRUMENT	CHECK	CHANNEL CALIBRATION
a. Wind Speed		
1. Elev. 200 ft. and 375 ft.	D	SA
B. Wind Direction		
1. Elev. 200 ft. and 375 ft.	0	SA
C. Afr Temperature Difference		
1. Elev. 33/200 ft. or 33/375 ft.	D	SA

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INSTRUMENTATION

REMOTE SHUTDOWN MONITORING INSTRUMENTATION

LAI

100 333.2 ... 3.3.7.4 The remote shutdown monitoring instrumentation channels shown in Rable 3.3.7.4-1|shall be OPERABLE (with readouts displayed in the remote shutdown panel external to the control room.

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2

Add proposed ACTIONS Note 2 ACTION: ACTION A

LIMITING CONDITION FOR OPERATION

With the number of OPERABLE reacts shutdown menitoring instrumentation channels less than required by Table 3.3.7.4-3, restore the inoperable channel(s) to OPERABLE status within () days or be in at least HOT SHUTDOWN within the next 12 hours.

Note 1 to ACTIONS

ACTION B

The provisions of Specification 3.0.4 are not applicable.

tor each required instrumentation channel that is normally energized

Add Proposed Note to Surveillance Requirements SURVEILLANCE REQUIREMENTS

SR 3.3.2.1 4.3.7.4 Each of the above required remote shutdown monitoring instrumentation channels shall be demonstrated OPERABLE by performance of the CHANNEL CHECK SR 3.33.2.2 and CHANNEL CALIBRATION operations at the frequencies (Shown in Table 4.3.7.4.1).

TABLE 3.3.7.4-1	
REMOTE SHUTDOWN MONITORING INSTRUMENTA	ATION
INSTRUMENT	MINIMUM INSTRUMENTS OPERABLE
1. Reactor Vessel Pressure	1
2. Reactor Vessel Water Level	1
3. RHR Flow	*
4. RHR Service Water Flow	1
5. RHR Service Water Temperature	1
6. RCIC Flow	1
7. RCIC Turbine Speed	1
8. Suppression Pool Water Level	1
9. Suppression Pool Water Temperature	*
VI.	

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LE, I

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Suppression Pool Water Level

Suppression Pool Water Temperature

TABLE 4.3.7.4-1 REMOTE SHUTDOWN MONITORING INSTRUMENTATION SURVENLANCE REQUIREMENTS SR 3.3.3.2.2 CHANNEL CALIBRATION SR 3.3.3.2.1 CHANNEL INSTRUMENT CHECK Reactor Vessel Pressure Reactor Vescel Water Level -RHR Flow Ħ RHR Service Water Flow L.3 24 months RHR Service Water Temperature M RCIC Flow M RESIC Turbine Speed 7. M

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INSTRUMENTATION

ACCIDENT MONITORING INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

LC03.3.3.1

ACTIONS

A-F

3.3.7.5 The accident monitoring instrumentation channels shown in Table 3.3.7.5-1 shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.

ACTION:

Add proposed ACTIONS NOTE 2

a. With one or more accident monitoring instrumentation channels inoperable, take the ACTION required by Table 3.3.7.5-1.

SURVEILLANCE REQUIREMENTS

Note 1 to Surveillance Requirements 4.3.7.5 Each of the above required accident monitoring instrumentation channels shall be demonstrated OPERABLE by performance of the CHANNEL CHECK and CHANNEL CALIBRATION operations at the frequencies shown in Table 4.3.7.5-1.

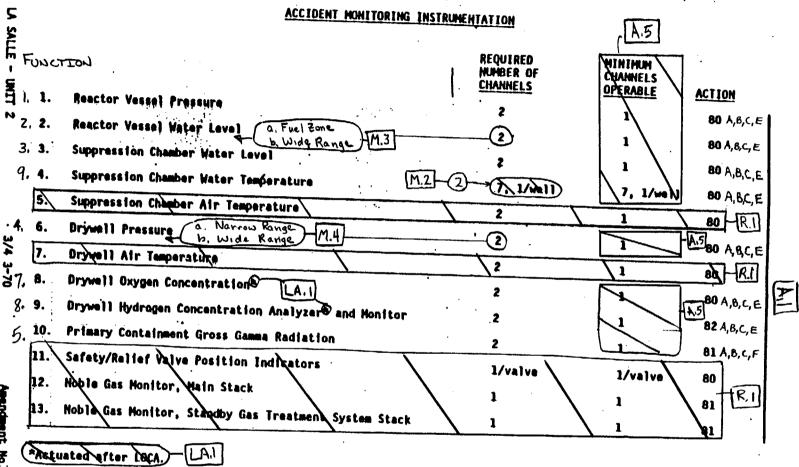
Add proposed Note 2 to Surveillance Requirements

L.2

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mendment |

Add proposed Function 6)-M.1

Page 7 & 10

丁5 3.3.3,1



Table 3.3.7.5-1 (Continued)

ACCIDENT MONITORING INSTRUMENTATION ACTION STATEMENTS

ACTION 80 -

ACTION A	a. With the number of OPERABLE accident monitoring instrumentation channels less than the Required Number of Channels shown in Table	
[] (2h)	3.3.7.5-1, restore the inoperable channel(s) to OPERABLE status]
الماري	within & days or be in at least WOT SHUTBOWN whihin the next 12 hours.	
	(add Droposed ACTION B)	l
ا د مسید د	With the number of OPERABLE accident monitoring instrumentation	1
ACTION C		1
	Table 3.3.7.5-1, restore the inoperable channel(s) to OPERABLE status	1
ACTIONS Dand	within & hours or be in at least HOT SHUTDOWN within the next 12 hours.	1
ACTION		
. (%	fight the number of OFERABLE channels less than the required by the minimum	1
·	thannels BPERABLE Auquirements, initiate the preplanned alternate method	
LA.Z	(Amohitoring the appropriate parameter(s) within 72 hours) and:	
(with two	iguired channels inoperable	- L.5
1) wither restore the imperable channel (6) to OPERABLE status within	[[]
ACTION C	7 days of the event, or tone required Insert proposed ACTION A	
) prepare and submit a Special Report to the Commission pursuant to	
ACTIONS	Specification 6.6. Swithin 14 days following the event outlining	
B, D, and F	the action taken, the cause of the inoperability and the plans and	
	schedule for restoring the system to OPERABLE status.	
ACT ON	A.3	
ACTION	moved to	
	TTS C.L.	
ACTION A	number of channels shown in Table 3.3.7.5-1, restore the inoperable	
	channel to OPERABLE status within 30 days or be in at least HOT L.4	
	Culture within the next N2 house	
•	(Add proposed ACTION B)	
ACTION C D	. With the number of OPERABLE channels less then the minimum channels	
•••	OPERABLE requirements of Table 3.3.7.5-1, restore at least one	
	channel to OPERABLE status within 7 days or be in at least HOT	
ACTIONS D and E	SHUTDOWN within the next 12 hours.	

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Table 3.3.7.5-1 (Continued)

ACCIDENT MONITORING INSTRUMENTATION ACTION STATEMENTS

ACTION BO -

- a. With the number of OPERABLE accident monitoring instrumentation channels less than the Required Number of Channels shown in Table 3.3.7.5-1, restore the inoperable channel(s) to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours.
- b. With the number of OPERABLE accident monitoring instrumentation channels less than the Minimum Channels OPERABLE requirements of Table 3.3.7.5-1, restore the inoperable channel(s) to OPERABLE status within 48 hours or be in at least HOT SHUTDOWN within the next 12 hours.

ACTION 81 -

With the number of DPERABLE channels less than the required by the minimum channels OPERABLE requirements, initiate the preplanned alternate method of monitoring the appropriate parameter(s) within 72 hours, and:

- either restore the inoperable channel(s) to OPERABLE status within 7 days of the event, or
- 5.66

 2) prepare and submit a Special Report to the Commission pursuant to Specification 6.6.c within 14 days following the event outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.

ACTION 82 -

- a. With the number of OPERABLE channels one less than the required number of channels shown in Table 3.3.7.5-1, restore the inoperable channel to OPERABLE status within 30 days or be in at least HOT SHUTDOWN within the next 12 hours.
- b. With the number of OPERABLE channels less then the minimum channels OPERABLE requirements of Table 3.3.7.5-1, restore at least one channel to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours.

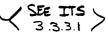


Table 3.3.3.1-1
TABLE 4.3.7.5-1

INSTRUMENT	SR 3.3.3.1.1 CHANNEL CHECK	Sr 3,3.3.1.2, <i>Sr</i> 3,3, _{1,3} Channel <u>Calibration</u>
1. Reactor Vessel Pressure	' н	3-1
2. Reactor Vessel Water Level	н	3-12
3. Suppression Chamber Water Level		3- R 24 months
4. Suppression Chamber Water Temperature	н	3- P (LE.1)-
S. Suppression Chamber Air Temperature	М	R. 1
6. Primary Containment Pressure	н	3-R
7. Drywell Air Temperature	М	R - R
8. Drywell Oxygen Concentration	н	2-89-6
9. Drywell Hydrogen Concentration Analyzer and Honitor	н .	2-0 MS
10. Primary Containment Gross Gamma Radiation	н	3- @ 24 months
11. Safety/Relief Valve Position Indicators 12. Noble Gas Honitor, Hain Stack 13. Noble Gas Honitor, Standby Gas Treatment System Stack	н	R R.I

N-L-I	. 1	FUNCTION	1. 1	$I \subseteq J$
/ Had	proposed	FUNC I TON	$\psi \mathcal{F}$	/ / ~
	· ' '			

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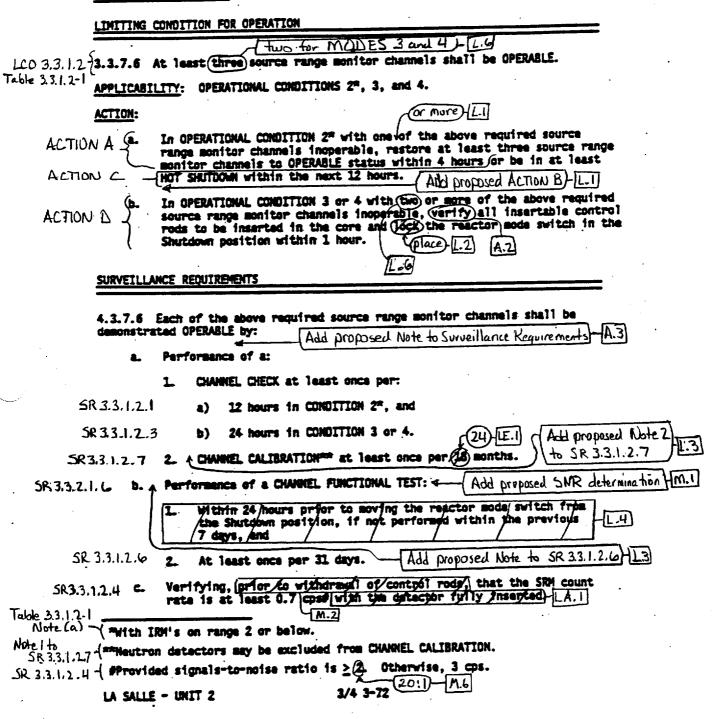
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Amendment No. 108 W

A.I

INSTRUMENTATION

SOURCE RANGE MONITORS





EXPLOSIVE GAS MONITORING INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.7.11 The explosive gas monitoring instrumentation channels shown in Table 3.3.7.12-1 shall be OPERABLE with their Alarm/Trip setpoints set to ensure that the limits of specification 3.11.2.1 are not exceeded.

APPLICABILITY: During operation of the main condenser air ejector.

ACTION:

- a. With an explosive was monitoring instrumentation shannel Alarm/Trip setpoint less conservative than required by the above specification, declare the channel inoperable, and take the ACTION shown in Table 3.3.7.11-1.
- b. With less than the minimum number of explosive gas monitoring instrumentation channels OPERABLE, take the ACTION shown in Table 3.3.7.11-1. Restore the inoperable instrumentation channels to an OPERABLE status within 30 days, or prepare and submit a Special Report to the Commission pursuant to Specification 6.6.C. within the next 10 days outlining the cause of the malfunction and the plans for restoring the channel(s) to OPERABLE status.
- c. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.7.11 Each explosive gas monitoring instrumentation channel shall be demonstrated OPERABLE by performance of a CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION at the frequencies shown in Table 4.3.7.11-1.

[R.1]

TABLE 3.3.7.11-1

EXPLOSIVE GAS MONITORING INSTRUMENTATION

INSTRUMENT

MINIMUM CHANNELS OPERABLE

ACTION

1. MAIN CONDENSER OFFGAS TREATMENT SYSTEM EXPLOSIVE GAS MONITORING SYSTEM (for systems designed to withstand the effects of a hydrogen explosion)

a. Hydrogen Monitor

1/train

110

TABLE NOTATION

ACTION 110 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, operation of the main condenser offgas treatment system may continue for up to 30 days provided grab samples are collected at least once per 4 hours and analyzed within the following 4 hours. If the recombiner(s) temperature remains constant and THERMAL POWER has not changed, the grab sample collection frequency may be changed to 8 hours.

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Amendment No. 69

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Four volume percent hydrogen, balance nitrogen.

During operation of the main condenses air ejector.

2.

LOOSE-PART DETECTION SYSTEM

LIMITING CONDITION FOR OPERATION

3.3.7.12 The loose-part detection system shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.

ACTION:

With one or more loose-part detection system channels inoperable for more than 30 days, prepare and submit a Special Report to the Commission pursuant to Specification 6.6.c within the next 10 days outlining the cause of the malfunction and the plans for restoring the channel(s) to OPERABLE status.

b. The provisions of Specification 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

- 4.3.7.12 Each channel of the roose-part detection system shall be demonstrated OPERABLE by performance of:
 - a. CHANNEL CHECK at least once per 24 hours,
 - b. CHANNEL FUNCTIONAL TEST at least once per 31 days, and
 - c. CHANNEL CALIBRATION at least once per 18 months.

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Amendment No. 78

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[A.1]

INSTRUMENTATION

3/4.3.8 FEEDWATER/MAIN TURBINE TRIP SYSTEM ACTUATION INSTRUMENTATION

LIMITING CONDITION FOR OPERATION	LIMITING	CONDITION	FOR (<u>OPERATION</u>
----------------------------------	----------	-----------	-------	------------------

channels shown in Table 3.3.8-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Jrip Setpoint column of Table 3.3.6-2.

APPLICABILITY: OPERATIONAL CONDITION 1.

المتنا

L.Z

A.4

ACTION: (acld proposed ACTION: ACTIONS Note)-[A. 2]

ACTIONS ACALES

With a feedwater/main turbine trip system actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of Table 3.3.8-2, declare the channel inoperable until the channel is restored to OPERABLE status with its trip setpoint adjusted consistent with the Trip Setpoint value.

THERMAL POWER 225% RTP

b. With one or more channels required by Table 3.3.8-1 inoperable:

ACTION B

1. Within 2 hours, verify sufficient channels remain OPERABLE or tripped to maintain trip capability, and adaptioned Required Action C.)

ACTION A

2. Within 7 days, either place the inoperable channel(s) in the trip system in the tripped* condition of restore the inoperable channel(s) to OPERABLE status.

ACTION C c. Otherwise, be in at least STARTUD within & hours!

SURVEILLANCE REQUIREMENTS

SR 3.3.2.2. 4.3.8.1 Each feedwater/main turbine trip system actuation instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, SR 3.3.2.2.3 CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations at the frequencies shown in Table 4.3.8.1-1.

SR3.322. 4.3.8.2 LOGIC SYSTEM FUNCTIONAL TESTS and <u>simulated automatic operation</u> of all channels shall be performed at least once per months.

24) LP.1

where this

An inoperable channel need not be placed in the tripped condition where this would cause the Trip Function to occur.

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Amendment No. 104

Page 50+8

EEDWATER/MAIN TURBINE TRIP SYSTEM ACTUATION INSTRUMENTATION

MINIMUM OPERABLE CHANNELS PER TRIP SYSTEM

TRIP FUNCTION

LCO 3.3.2. Z a. Reactor Vessel Water Level-High, Level 8

4.

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(Note to Surve: Ilance Requirements

^{*}A channel may be placed in an inoperable status for up to 6 hours for required surveillance testing without placing the Trip System in the tripped condition.

age 7 of 8

*See Bases Figure # 3/4 3-1.

T 3.3.2.

PREDWATER/MAIN TURBING TRIP SYSTEM ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENT

2K 3, 3, Z, Z-1	ンパン・ブ・と・と・エ		
•••	Channel	583.3.2.2.3	
Channel	FUNCTIONAL	CHANNEL	
_CHBCK	TEST	CALIBRATION	

LCO 3.3.2.2 a. Reactor Vessel WAter Level-High, Level 8

TRIP FUNCTION

,

24 months

Tage

408

Ø

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A.

ITS 35.

3/4.4 REACTO	R COOLANT SYSTEM	
3/4.4.1 RECI	RCULATION SYSTEM	
RECIRCULATION	LOOPS	[A.2]
	ITION FOR OPERATION	,
Lco 3.4.1 3.4.1.1 Two	reactor coolant system recirculation loops shall be in	
<u>APPLICABILITY</u>	OPERATIONAL CONDITIONS 1 and 2	A.3
ACTION	OPERATIONAL CONDITIONS I and 2 within Regilery	3.4.1-1
Lco 3.4.1 a. Witi	only one (1) reactor coolant system recirculation location, comply with Specification 3.4.1.5 and:	ip in [2.1]
ACTION 6 1.	Within four 4 hours: (Satisfy the requirements of	the 100 [A.2]
•	a) Place the recirculation flow centrol system in the Manual mode or lower, and	
	b) Increase the MINIMUM CRIFFCAL POWER RAFFO (MCPR) Limit by 0.01 per Specification 2.1.2, and	Safety A.4
as specified in the COLR for Single Loop Operation	c) Increase the MINIMUM CRITICAL POWER RATIO (MCPR) Condition for Operation (by 9-0) per Specification and,	Limiting
LCO 3.4.1 Loop Operation	recirculation loop operation per Specifications	ng .
	3.3.6. e) Reduce the AYERAGE PLANAR LINEAR HEAT GENERATION (APLHGR) Limiting Condition for Operation by the applicable Single Loop Operation (SLO) factor sp the CORE OPERATING LIMITS REPORT.	i
ACTION H { 2.	Otherwise, be in at least HOT SHUTDOWN within the nex (12) hours.	
b. With	no reactor coolant recirculation loops in operation:	
ACTION D }	no reactor coolant recirculation loops in operation: Take the ACTION required by Specification 3.4-1.5, and Be in at least HOT SHUTDOWN within the next six (6) he	(A.3)
2.	Be in at least HOT SHUTDOWN within the next six (6) he	ours.
		[L.2]

3/4 4-1

LA SALLE - UNIT 2

Amendment No. 101

(A.1) ITS 3.4.2

REACTOR COOLANT SYSTEM

REACTOR COOLANT SYSTEM

Add proposed LCO 3.4.2, Applicability, and ACTIONS

11.24

SURVEILLANCE REQUIREMENTS

SR 3.4.2.1 . 4.4.1.1 Each reactor coolant system recirculation loop flow control valve shall be demonstrated OPERVBLE at least once per Φ months by: (24)Verifying that the control valve fails "as is" on loss of hydraulic pressure at the hydraulic power units, and

SR 3.4.2.2 b. Verifying that the average rate of control valve movement is:

- 1. Less than or equal to 11% of stroke per second opening, and
- . Less than or equal to 11% of stroke per second closing.

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3/4 1-2

mendment No. 40

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•	REACTOR COOLANT SYSTEM	
:	. JET PUMPS	
	LIMITING CONDITION FOR OPERATION	<u> </u>
LCO 3.4.3	3.4.1.2 All jet pumps shall be OPERABLE.	
	APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.	
	ACTION:	
ACTION A	With one or more jet pumps inoperable, be in at least HOT SHUTDOWN within 12 hours.	L,1
•	SURVEILLANCE REQUIREMENTS	add propried
5R 3.4.3.1	4.4.1.2.1 Each of the above required jet pumps shall be demonstrated OPE prior to THERMAL POWER exceeding 25% of RATED THERMAL POWER and at least	RABLE NOTE 1 to SR
	per 24 hours by measuring and recording each of the below specified parameter and verifying that no two of the following conditions occur when both recording loops are operating with balanced flow.	eters iteula- Note 2 to SR 34.3.1
. • •	a. The indicated recirculation loop/flow differs by more than 10% the established flow control valve position-loop flow character (for two recirculation loop operation.)	istics)
	b. The indicated total core flow differs by more than 10% from the established total core flow value derived from either the:	(calculated)
	Established THERMAL POWER-gore flow relationship, or Established core plate differential pressure-core flow relationship for two recirculation loop operation.	A.3
	c. The indicated diffuser-to-lower plenum differential pressure of individual jet pump differs from established two recirculation operation patterns by more than 10% (20%)	add proposed NOTE 1 to SR
5R3.4.3.1	4.4.1.2.2 During single recirculation loop operation, each of the above required jet pumps shall be demonstrated OPERABLE at least once per 24 he by verifying that no two of the following conditions occur:	add proposed Note 2 to 5R 3.4.3.1
in the operation	control valve position loop flow characteristics.	LA.I
	b. The indicated total core flow differs by more than 10% from the established total core flow value from single recirculation for flow measurements derived from either the: 1. Established THERMAL POWER-gore flow relationship, or	Calculated) A3
	2. Established core plate differential pressure-core flow re ship for two recirculation loop operation.	LA.2
	c. The indicated diffuser-to-lower plenum differential pressure of any individual jet pump differs from established single recirc loop by more than 100 20%	ulation L.4
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L		لتنت

	RECIRCULATION LOOP FLOW	
	LIMITING CONDITION FOR OPERATION	
LCO 3.4.1	3.4.1.3 Recirculation loop Flow mismatch shall be maintained within:	[A.6]
SR 3.4.1.	a. 5% of rated recirculation flow with core flow greater than or equal to 70% of rated core flow.	
DK 3.411	b. 10% of rated recirculation flow with core flow less than 70% of rated core flow.	
	APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2 during two recirculation loop operation.	
•	ACTION:	
(With recirculation loop flows different by more than the specified limits, either:	,
ACTION F	a. Restore the recirculation loop flows to within the specified limit within 2 hours, or	-[A.7]
(b. Declare the recirculation loop with the lower flow not in operation and take the ACTION required by Specification 3.4.1.1	-A.14
	•	
. •	SURVEILLANCE REQUIREMENTS	
	(A) proposed SR 3.4.1.1 Note	7.3
SR 3.4.1.1	4.4.1.3 Recirculation loop flows shall be verified to be within the limits at least once per 24 hours.	A.6

IA SALLE - IMIT 2

3/4 4-

REACTOR COOLANT SYSTEM

IDLE RECIRCULATION LOOP STARTUP

	LIMITING CONDITION FOR OPERATION
LCO 3.4.11 SR3.4.11.3	3.4.1.4 An idle recirculation loop shall not be started unless the temperature differential between the reactor pressure vessel steam epace coolant and the bottom head drain line coolant is less than or equal to 145°F, and:
45 24 H U	a. When both loops have been idle, unless the temperature differential between the reactor coolant within the idle loop to be started up and the coolant in the reactor pressure vessel is less than or equal to 50°F, or
5R 3.4.11.4	b. When only one loop has been idle, unless the temperature differential between the reactor coolant within the idle and operating recirculation loops is less than or equal to 50°F and the operating loop flow is less than or equal to 50°F and the operating loop flow I.A.4
Note to)	
5R.3.4.11.3	APPLICABILITY: OPERATIONAL COMOITIONS 1, 2, 3, and 4. ACTION:
5R3,4.11.4 /	With temperature differences and/or flow rates exceeding the above limits, suspend startup of any idle recirculation loop.
	(add proposed Actions A, B, and C) N.2

SURVETILIANCE REQUIREMENTS

5R3,4.11.3 5R3,4.11.4 4.4.1.4 The temperature differentials and flow rate shall be determined to be within the limits within 15 minutes prior to startup of an idle recirculation loop.

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	REACTOR COO	LANT SYS	<u>TEM</u>	[A.1]		
	3/4.4 REAC	TOR COOL	ANT SYSTEM			
	3/4.4.1 RE	CIRCULAT	ION SYSTEM			
	THERMAL HYD	RAULIC S	TABILITY			
	LIMITING CO	NDITION I	FOR OPERATION			
(3.4.1.5 Fo	rced cor	e circulation shall be	maintained wit	th:	·
co 3.4.1	a. Total	core flo	greater than or aque	1 to 45% of rat	ted core flow, or	-A.8
(b. THERMA	L POWER	within Region III of F	igure 3.4.1.5-1	L, or	
ACTON A			within Region II of Fi ot exceeding the large seline noise levels or			[A.9]
	- '		RATIONAL CONDITION 1 4		-\(\begin{align*} A.13 \end{align*}	
		n Region	I of Figure 3.4.1.5-1	.:		
) 1	. With	at least 1 reactor co	olant recircula	ation loop in operati	on
ACTON	c } 1	(a)		R by control m	od insertion. n two (2) hours @ ex	the LA.2
		b)	Increase core flow wit toop(s), to exit Regi	th the operation I within two	o (2) hours.	
	2	. With	no reactor coolant re	circulation lo	ops in operation:	[LA.2]
	ACTION D) { 	Immediately reduce CO Fods, observing the /I and complete power re THERMAL POWER within	RE THERMAL POW ndicated APRH a duction to belo two (2) hours,	ER by inserting centi and LPRM noise levels by 36% of RATED CORE and	A.10
	ACTION E	. {b)	If indicated LPRM or peak-to-peak, immedia the SHUTDOWN position	APRM noise level stely place the	els exceed 10% reactor mode switch	in
1	Required.	_(c) <	Comply with Specific	tion 3.4.1.1 A	THEN 5.2	A.3
^	lction D.3	`	•	1	Be in MODE 3 in	12 hours)
						4.2
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[A.1]

ACTION (Continued)

b. In Region II of Figure 3.4.128-1, with APRM or LPRM neutron flux noise levels exceeding the larger of: i) Three (3) times the established baseline noise levels, or ii) 10% peak-to-peak noise indication.

[A.3]

ACTON B

ACTION A

Immediately initiate corrective action by inserting control rods or increasing core flow to restore the noise levels to within the required limit within 2 hours, otherwise.

2. Insert control rods to reduce THERMAL POWER and/or increase core flow to enter Region III of Figure 3.4.1/9-1 within the mext 2 hours.

LA.3

M.2

SURVEILLANCE REQUIREMENTS

Add ACTION E

M.3

4.4.1.5 When operating within Region II of Figure 3.4.1.5-1, verify:

 That the APRM and LPRM neutron flux noise levels do not exceed the larger of: i) Three (3) times the established baseline levels or, ii) 10% peak-to-peak indicated noise level:

a. At least once per 12 hours, and

b. Initiate the surveillance within 15 minutes after entering the region or completing an increase of at least 5% of RATED THERMAL POWER, completing the surveillance within the next 30 minutes.

A. 17

2. That Core flow is greater than or equal to 39% of rated core flow at least once per 12 hours.

of Figure 3.4.1-1

Add proposed SR 3.4.1.2

M.4

#Detector levels A and C of one LPRM string per core octant plus detector levels A and C of one LPRM string in the center region of the core should be monitored.

LA.5

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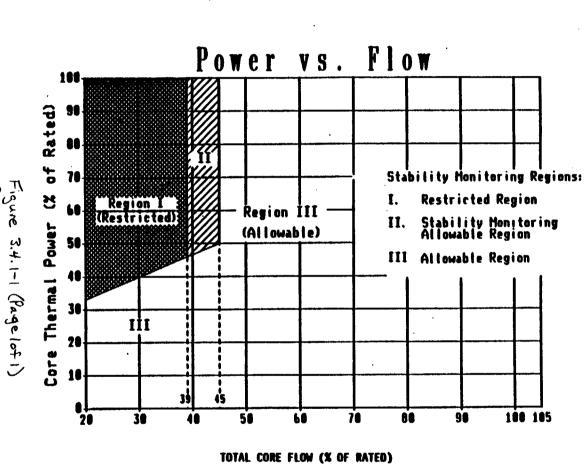


Figure 3.4.1.5-1



3/4.4.2 SAFETY/RELIEF VALVES

LIMITING CONDITION FOR OPERATION

- 3.4.2 The safety valve function of 12 of the below listed 13 reactor coolant system safety/relief valves shall be OPERABLE with the specified code safety valve function lift setting*#; all installed valves shall be closed with OPERABLE position indication.
 - a. 2 safety/relief valves @1205 psig ±3%
 - b. 3 safety/relief valves @1195 psig ±3%
 - c. 2 safety/relief valves @1185 psig ±3%
 - d. 4 safety/relief valves @1175 psig ±3%
 - e. 2 safety/relief valves @1150 psig ±3%

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

- a. With the safety valve function of one or more of the above required safety/relief valves inoperable, be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours.
- b. With one or more of the above required safety/relief valve stem position indicators inoperable, restore the inoperable stem position indicators to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

SURVEILLANCE REQUIREMENTS

4.4.2.1 The safety/relief valve stem position indicators of each safety/relief valve shall be demonstrated OPERABLE by performance of a:

R1

- a. CHANNEL CHECK at least once per 31 days, and a
- b. CHANNEL CALIBRATION at least once per 18 months.**
- 4.4.2.2 The low low set function shall be demonstrated not to interfere with the OPERABILITY of the safety/relief valves or the ADS by performance of a CHANNEL CALIBRATION at least once per 18 months.

*The lift setting pressure shall correspond to ambient conditions of the valves at nominal operating temperatures and pressures. Following testing, lift settings shall be within ±1%. #Up to two inoperable valves may be replaced with spare OPERABLE valves with lower setpoints until the next refueling outage.

The provisions of Specification 4.0.4 are not applicable provided the surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the test.

R.1

(See ITS 3.4.4)

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3/4.4.2 SAFETY/RELIEF VALVES

LIMITING CONDITION FOR OPERATION

3.4.2 The safety valve function of 12 of the below listed 13 reactor coolant system safety/relief valves shall be OPERABLE with the specified code safety valve function lift setting*#; all installed valves shall be closed with OPERABLE position indication.

- a. 2 safety/relief valves @1205 psig ±3%
- b. 3 safety/relief valves @1195 psig ±3%
- c. 2 safety/relief valves @1185 psig ±3%
- d. 4 safety/relief valves @1175 psig ±3%
- e. 2 safety/relief valves @1150 psig ±3%

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

- a. With the safety valve function of one or more of the above required safety/relief valves inoperable, be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours.
- b. With one or more of the above required safety/relief valve stem position indicators inoperable, restore the inoperable stem position indicators to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

SURVEILLANCE REQUIREMENTS

4.4.2.1 The safety/relief valve stem position indicators of each safety/relief valve shall be demonstrated OPERABLE by performance of a:

- a. CHANNEL CHECK at least once per 31 days, and a
- b. CHANNEL CALIBRATION at least once per 18 months.**

4.2.2 The low low set function shall be demonstrated not to interfere with the OPERABINTY of the safety/relief valves on the ADS by performance of a CHANNEL CALIBRATION at least once per 18 months.

*The lift setting pressure shall correspond to ambient conditions of the valves at nominal operating temperatures and pressures. Following testing, lift settings shall be within ±1%. #Up to two inoperable valves may be replaced with spare OPERABLE valves with lower setpoints until the next refueling outage.

The provisions of Specification 4.0.4 are not applicable provided the surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the test.

(See ITS 3.4.4)

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A.I

REACTOR COOLANT SYSTEM

3/4.4.2 SAFETY/RELIEF VALVES

LIMITING CONDITION FOR OPERATION

LCO 34.4 3.4.2 The safety valve function of 12 of the below listed 13 reactor coolant system safety/relief valves shall be OPERABLE with the specified code safety valve function lift setting*# installed valves shall be clased with OPERABLE position indication safety/relief valves @1205 psig ±3% safety/relief valves @1195 psig ±3% b. safety/relief valves @1185 psig ±3% safety/relief valves @1175 psig ±3% d. safety/relief valves @1150 psig ±3% APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. **ACTION:** ACTION A Sa. With the safety valve function of one or more of the above required safety/relief valves inoperable, be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours. With one or more of the above required safety/relief valve stem position indicators inoperable, restore the inoperable stem position indicators to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours and in A.Z COLD SHUTDOWN within the following 24 hours. SURVEILLANCE REQUIREMENTS 4.4.2.1 The safety/relief valve stem position indicators of each safety/relief valve shall be demonstrated OPERABLE by performance of a: ITS 3.3.3.1 CHANNEL CHECK at least once per 31 days, and a a. CHANNEL CALIBRATION at least once per 18 months. ** 4.4.2.2 The low low set function shall be depronstrated not to interfere with the OPERABILITY of the safety/relief valves or the ADS by performance of a CHANNEL CALIBRATION at least once per 18 months. A.3 Morel to ITS 3.3.5.1 > The lift setting pressure shall correspond to ambient conditions of the valves at nominal LA. I SR 3.4.4.1] operating temperatures and pressures (Following testing, lift settings shall be within ±1%.)
#Up to two inoperable valves may be replaced with spare OPERABLE valves with lower setpoints until the next refueling outage SR34.4.1 The provisions of Specification 4.0.4 are not applicable provided the surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the test. / Moved to ITS 3.3.3.1)

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Lil

3/4.4.3 REACTOR COOLANT SYSTEM LEAKAGE LEAKAGE DETECTION SYSTEMS

A.\

LIMITING	CONDITION	FOR	OPERATION

3.4.3.1 The following reactor coolant system leakage detection systems shall be OPERABLE:

- a. The primary containment atmosphere particulate radioactivity L.I monitoring system,
- b. The primary containment sump flow monitoring system, and
- c. Either the primary containment air coolers condensate flow rate monitoring system or the primary containment atmosphere gaseous radioactivity monitoring system.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3.

(add proposed Note to Actions A and)

ACTION:

ACTIONS A,B,C,andD With only two of the above required leakage detection systems OPERABLE, operation may continue for up to 30 days provided grab samples of the containment atmosphere are obtained and analyzed at least once per 24 hours when the required gaseous and/or particulate radioactive monitoring system is inoperable; otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

ACHON E

SURVEILLANCE REQUIREMENTS

add proposed ACTION F) A.2

4.4.3.1 The reactor coolant system detection systems shall be demonstrated

OPERABLE by:

(add proposed Note to SR Table)

L.3

5R3,4,7,1 5R3,4,7,2 5R3,4,7,3 a. Primary containment atmosphere particulate and gaseous monitoring systems performance of a CHANNEL CHECK at least once per 12 hours, a CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION at least once per 12 months.

5R 3.4.7.2 5R3.4.7.3 Primary containment sump flow monitoring system-performance of a CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION TEST at least once per (8 months.

6R 3.4.7.2 5R 3.4.7.3 Primary containment air coolers condensate flow rate monitoring system-performance of a CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION at least once per months.

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OPERATIONAL LEAKAGE

LIMITING CONDITION FOR OPERATION

- 3.4.3.2 Reactor coolant system leakage shall be limited to:
 - No PRESSURE BOUNDARY LEAKAGE.

460 3.4.5 5 gpm UNIDENTIFIED LEAKAGE. b.

(the previou

A.I

25 gpm total leakage averaged over (any) 24 hour period. c.

l gpm leakage at a reactor coolant system pressure at 1000 \pm 50 psig from any reactor coolant system pressure isolation valve specified d. <u>in Table 3.4.3.2-1.</u>

Moved to (LCD 3.4L)

4.3

Moved to '

LLC0 3.4.6/

A.3

2 gpm increase in UNIDENTIFIED LEAKAGE within any 24 hour period.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3.

the previous A.2 in Model

ACTION:

With any PRESSURE BOUNDARY LEAKAGE, be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours. ACTION

With any reactor coolant system leakage greater than the limits in b and/or c, above, reduce the leakage rate to within the limits within 4 hours or be in at least HOT SHUTDOWN within the next 12 hours and ACTION A (in COLD SHUTDOWN within the following 24 hours. ACTION C

With any reactor coolant system pressure isolation valve leakage greater than the above limits, isolate the high pressure portion of the affected system from the low pressure portion within 4 hours by use of at least two closed valves, or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

With one or more high/low pressure interface valve leakage pressure monitors inoperable, restore the inoperable monitor(s) to OPERABLE d. status within 7 days or verify the pressure to be less than the alarm setpoint at least once per 12 hours by local indication; restore the inoperable monitor(s) to OPERABLE status within 30 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 12 hours.

With any reactor coolant system leakage greater than the limit in e, above, identify the source of leakage within 4 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN ACTION B e. (within the following 24 hours. ACTIONC

> is not IGSCC susceptible material or reduce leakage to within limif

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OPERATIONAL LEAKAGE
LIMITING CONDITION FOR OPERATION
LC03.4.6 3.4.3.2 Reactor coolant system leakage shall be limited to: 0.5gpm leakage per nominal
No pressure roundary LEAKAGE. \ \inch of valve
h & ann INIDENTIFIED LEAKAGE.
c. 25 gpm total leakage averaged over any 24 hour period. leakage of 5 gpm for each PIV
SR3.4.6.1 d. (1 gpm leakage at a reactor coolant system pressure at 1000 ± 50 psig LCO 3.4.6 from any reactor coolant system pressure isolation valve spectfied LA.1 In Table 3.4.3.22).
e. 2 gpm increase in UNIDENTIFIED LEAKAGE within any 24 hour period.)
APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3. C add proposed MOGE 3 RHE L.I
ACTION: < (add proposed ACTION'S Notes laun 2) A.2
a. With any PRESSURE BOUNDARY LEAKAGE, be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours.
b. With any reactor coolant system leakage greater than the limits in b and/or c, above, reduce the leakage rate to within the limits within 4 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
ACTION 8 With any reactor coolant system pressure isolation valve leakage greater than the above limits, isolate the high pressure portion of the affected system/from the low pressure portion within 4 hours by use of at least (two) closed valves, (or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
d. With one or more high/low pressure interface valve leakage pressure monitors inoperable, restore the inoperable monitor(s) to OPERABLE status within 7 days or verify the pressure to be less than the alarm setpoint at least once per 12 hours by local indication, restore the inoperable monitor(s) to OPERABLE status within 30 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 12 hours.
e. With any reactor coolant system leakage greater than the limit in e, above, identify the source of leakage within 4 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
See ITS 3.4.5
add Required Actions A.1 and A.2 Nate

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SURVEILLANCE REQUIREMENTS

5R3.4.5.1

4.4.3.2.1 The reactor coolant system leakage shall be demonstrated to be within each of the above limits on average once per 8 hours not to exceed 12 hours.

4.4.3.2.2 Each reactor coolant system pressure isolation valve specified in Table 3.4.3.2-1 shall be demonstrated OPERABLE:

- a. Pursuant to Specification 4.0.5, except that in lieu of any leakage testing required by Specification 4.0.5, each valve shall be demonstrated OPERABLE by verifying leakage to be within its limit:
 - 1. At least once per 18 months, and
 - Prior to returning the valve to service following maintenance, repair or replacement work on the valve which could affect its leakage rate.

The provisions of Specification 4.0.4 are not applicable for entry into OPERATIONAL CONDITION 3.

- By demonstrating OPERABILITY of the high/low pressure interface valve leakage pressure monitors by performance of a:
 - 1. CHANNEL FUNCTIONAL TEST at least once per 31 days, and
 - 2. CHANNEL CALIBRATION at least once per 18 months,

With the alarm setpoint for the:

- 1. HPCS system ≤ 100 psig.
- 2. LPCS system ≤ 500 psig.
- 3. LPCI/shutdown cooling system ≤ 400 psig.
- 4. RHR shutdown cooling ≤ 190 psig.
- 5. RCIC ≤ 90 psig.

(moved to LCD 3.4.6)

A.3

*Technical Specification 4 8.2 does not apply.

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A.1

SURVEILLANCE REQUIREMENTS

(See ITS 3.4.5)

4.4.3.2.1 The reactor coolant system leakage shall be demonstrated to be within each of the above limits on average once per 8 hours not to exceed 12 hours.

5R3.4.6.1

4.4.3.2.2 Each reactor coolant system pressure isolation valve specified in Table 3.4.3.2-1) shall be demonstrated OPERABLE:

a. Pursuant to Specification 4.0.5, except that in lieu of any leakage testing required by Specification 4.0.5, each valve shall be demonstrated OPERABLE by verifying leakage to be within its limit:

(1. At least once per 18 months, and

LA.

 Prior to returning the valve to service following maintenance, repair or replacement work on the valve which could affect its leakage rate.

NOTE +0 SR 3.4.6.1 The provisions of Specification 4.0.4 are not applicable for entry into OPERATIONAL CONDITION 3.

- b. By demonstrating OPERABILITY of the high/low pressure interface valve /eakage pressure monitors by performance of a:
 - 1. CHANNEL FUNCTIONAL TEST at least/once per 31 days, and
 - 2. CHANNEL CALIBRATION at least once per 18 months,

With the alarm setpoint for the:

- 1. HPCS system ≤ 100 psig.
- 2. LPCS system ≤ 500 psig
- 3. LPCI/shutdown cooling system ≤ 400 psig.
- 4 RHR shutdown cooling ≤ 190 psig
- 5. RCIC ≤ 90 psig

LC.1

*Technical Specification 4.0.2 does not apply.

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		<u>/2-1</u>
· / <u>*</u>	EACTOR COOLANT SYSTEM PRESS	SURE ISOLATION VALVES
SYSTEM	VALVE NUMBER	FUNCTION /
	/	
a. LPCS	E21-F006 E21-F005	LPCS Injection LPCS Injection
b. MPCS	E22-F005 E22-F004	HPOS Injection HPCS Injection
c/ RHR	E12-F041A E12-F041B E12-F041C	LPCI Injection LPCI Injection LPCI Injection
/	E12-F042A E12-F042B	LPCI Injection LPCI Injection
Y	E12-F042C E12-F050A	LPCI Injection Shutdown Cooling Return
	£12-F050B E12-F053A	Shutdown Cooling Return Shutdown Cooling Return
	E12-F053B	Shutdown Cooling Return
	E12-F009 E12-F008	Shutdown Cooling Suction Shutdown Cooling Suction
d. RCIC	E51-F066 E51-F065	RCIC Head Spray RCIC Head Spray
	•	LAI)

3/4.4.5 SPECIFIC ACTIVITY

LIMITING CONDITION FOR OPERATION

LCo 3.4.8 3.4.5 The specific activity of the primary coolant shall be limited to:

a. Less than or equal to 0.2 microcurie per gram DOSE EQUIVALENT I-131, and
b. Less than or equal to 100/E microcuries per gram.

Less than or equal to 100/E microcuries per gram. Ь. APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, and 4. with any main steam line not isolated ACTION: In OPERATIONAL CONDITION 1, 2, or 3) with the specific activity of the primary coolant; (add proposed Note A to Action A) L3 Greater than 0.2 microcurie per gram DOSE EQUIVALENT I-131 but less than or equal to 4 microcurie per gram DOSE EQUIVALENT I-131 for more than 48 hours during one continuous time interval or greater than 4.0 microcuries per gram DOSE EQUIVALENT I-131, be in at least HOT SHUTDOWN with the main steam line isolation ACTION A ACTION B valves closed within 12 hours. Greater than 100/E microcuries per gram, be in at least HOT SHUTDOWN with the main stramline isolation valves closed within 12 hours. In OPERATIONAL CONDITION 1, (2, 3) or 4, with the specific activity of the primary coolant greater than 0.2 microcurie per gram DOSE EQUIVALENT I-131 (op greater than 100/E microcuries per gram) perfo L.2 Required Actions the sampling and analysis requirements of Item 4a of Table 4.4.5-1 A.I and Bil until the specific activity of the primary coolant is restored to within the limit. In OPERATIONAL CONDITION 1 or 2, with: THERMAL POWER changed by more than 15% of MATED THERMAL POWER in I hour*. or The off-gas level, prior to the holder line, increased by more than 25,000 microcuries per second in one hour during steady state operation at release rates less than 100,000 microcuries A.a per second, or *Not applicable during the Startup Test Program

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A.2

REACTOR COOLANT SYSTEM

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

3. The off-gas level, prior to the holdup line, increased by more than 15% in 1 hour during steady state operation at release rates greater than 100,000 microcuries per second,

perform the sampling and analysis requirements of Item 4b of Table 4.4.5-1 until the specific activity of the primary coolant is restored to within its limit.

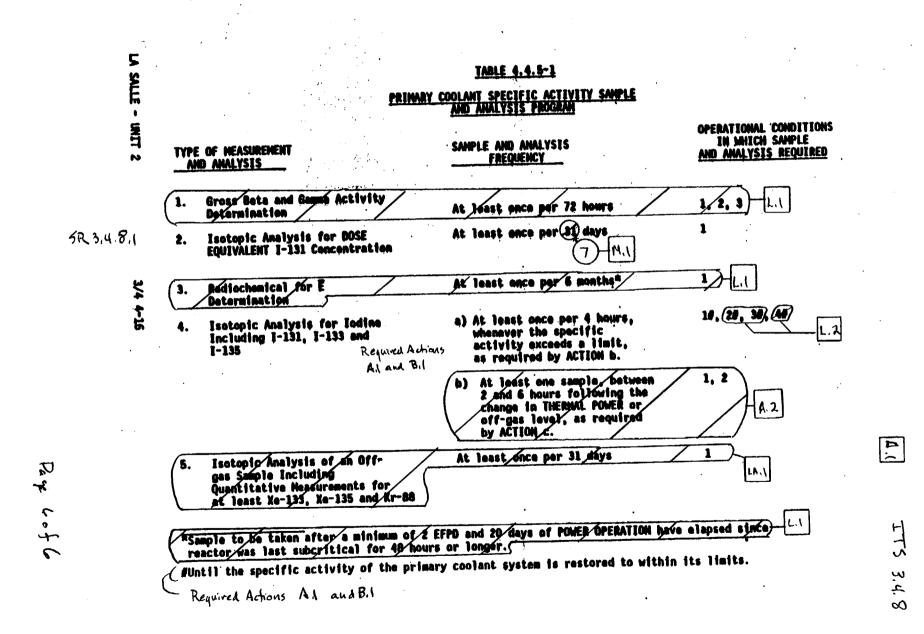
SURVEILLANCE REQUIREMENTS

5R 3.4.B.(

4.4.5 The specific activity of the reactor coolant shall be demonstrated to be within the limits by performance of the sampling and analysis program of Table 4.4.5-1.

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A.V

LIMITING CONDITION FOR OPERATION LCO 3.4.11 The reactor coolant system temperature and pressure shall'be limited in accordance with the limit lines shown on Figure 3.4.6.1-1 (and/3.4.6/1-18;) (1) curves/A) for hydrostatic or leak testing; (2) curves/B) for heatup by 5R3.4.11.1 non-nuclear means, cooldown following a nuclear shutdown and low power PHYSICS TESTS; and (3)/curves/C for operations with a critical core other than low power PHYSICS TESTS, with: 5R 3.4.11.2 Figure 3.4.6,1-1a) Figure 3.4.6.1-1b) A maximum heatup of 100°F in any one hour period, A maximum cooldown of 100°F in any one hour period, b. (LAR297) 5R 3.4.11.1 A maximum temperature change of less than or equal to 20°F in any A.A one hour period during inservice hydrostatic and leak testing operations above the heatup and cooldown limit curves, and The reactor vessel flange and head flange temperature greater than 5R3411.5 or equal to 86°F when reactor vessel head bolting study are under 50 34.11.6 tension. SR 3.4.11.7 APPLICABILITY: At all times 🗷 ACTION: add proposed Conditions A and C M,I With any of the above <u>limits exceeded</u>, restore the temperature and/or pressure to within the <u>limits within 30 minutes</u>) perform an engineering evaluation to determine the effects of the out-of-limit condition on the structural integrity of the reactor coolant system; determine that the reactor coolant system remains acceptable for continuous operations or be in at least HOT SHUTDOWN add Required ACTIONS Action's A.L and C.2 Completion Aaude times ACTION B. Within 12 hours and in COLD SHUTDOWN within the following 24 hours. LA.2 SURVEILLANCE REQUIREMENTS 4.4.6.1.1 During system heatup, cooldown and inservice leak and hydrostatic testing operations, the reactor coolant system temperature and pressure shall be determined to be within/the above required heature and cooldown limits (and to LAI SR 3.4.11.1 the right of the limit lines of Figures 3.4.6.1-1 and 3.4.6.1-la curves A for B, as applicable, at least once per 30 minutes. (3.4.6.1-la, and 3.4.6.1-lb) *During shutdown conditions for hydrostatic or leak testing or heatup by nonnuclear means, the average collant temperature limit of Table 1.2 for Cold Shutdown and Hot Shutdown may be increased to 212°F. (LAR297)-A9 LA SALLE - UNIT 2 3/4 4-17 Amendment No. 55

REACTOR COOLANT SYSTEM

REACTOR COOLANT SYSTEM

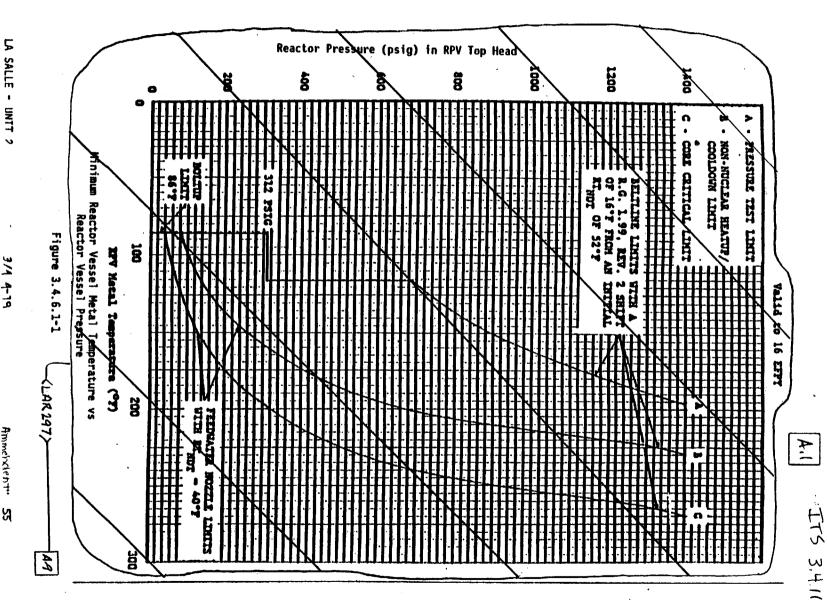
3/4.4.6 PRESSURE/TEMPERATURE LIMITS

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SURVEILLANCE REQUIREMENTS (Continued) 4.4.6.1.2 The reactor coolant system temperature and pressure shall be determined to be to the right of the criticality limit line of Figures 3.4.6. (2) and 3.4.6. 1-72 curves D within 15 minutes prior to the withdrawal of control 523411.2 rods to bring the reactor to criticality. (LAR297) 4.4.9.1.3 The reactor vessel material specimens shall be removed and examined to determine reactor pressure vessel fluence as a function of time and THERMAL POWER as required by 10 CFR Part 50, Appendix H in/accordance with the schedule in/iable 4.4.5/1.3-1. The results of these fluence determinations shall be used to update the curves of Figures 3.4.6.1-1 and 3.4.5.1-1a. 4.4.6.1.4 The reactor vessel flange and head flange temperature small be verified to be greater than or equal to 86°F: SR 3.4,11.5 SR 3.4.11.6 In OPERATIONAL CONDITION 4 when the reactor coolant temperature is: 5R3.4.11.7 < 106°F, at least once per 12 hours. and proposed SR3.4.11.7 Note 5R3.4.11.7 < 91°F, at least once per 30 minutes: (add proposed SR 3.4.11.6 Note SR3,4, 11.6 (Within 30 minutes prior to and at least once per 30 minutes during tensioning of the reactor vessel head bolting studs.

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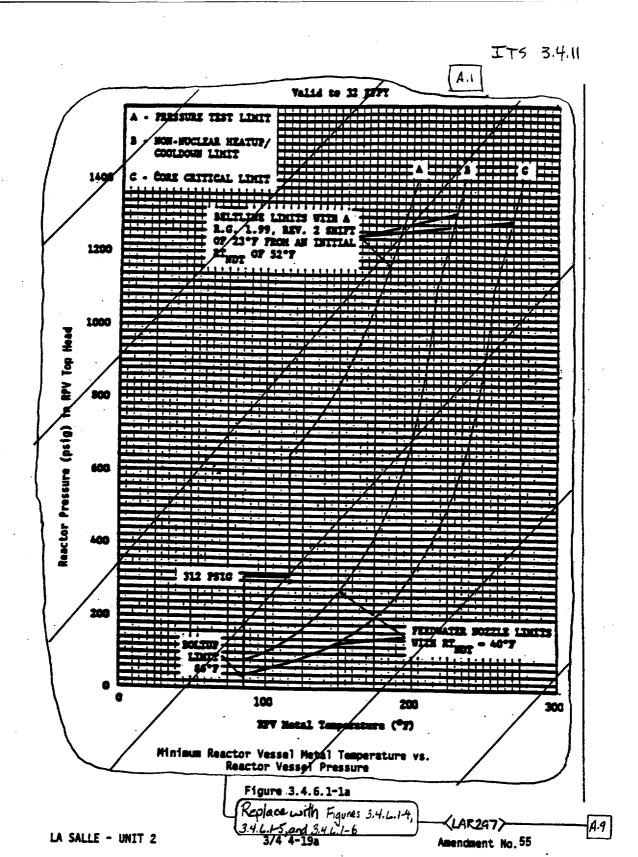


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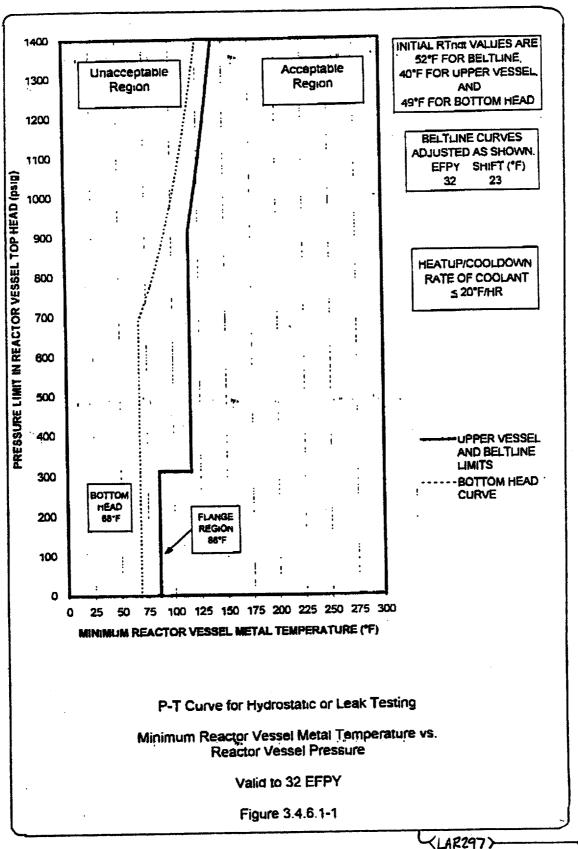
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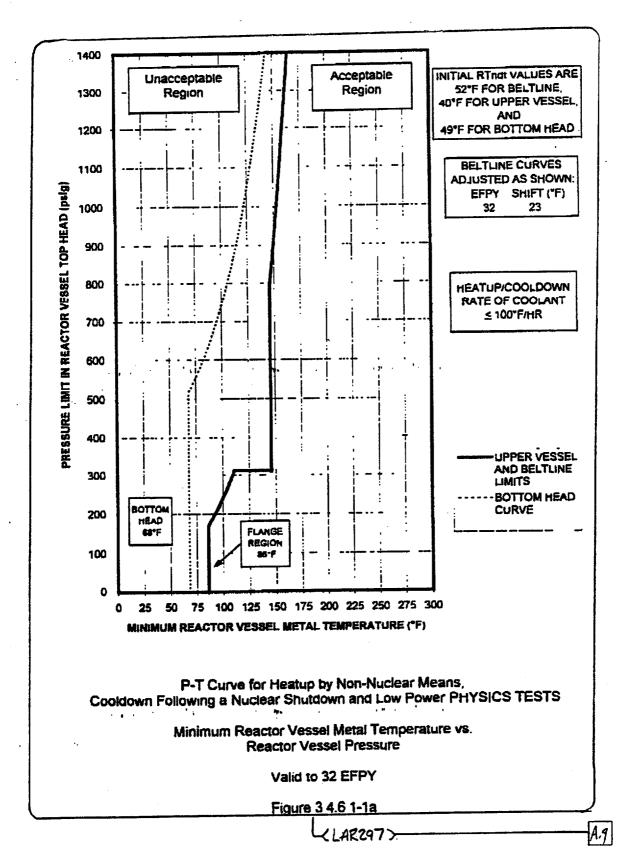


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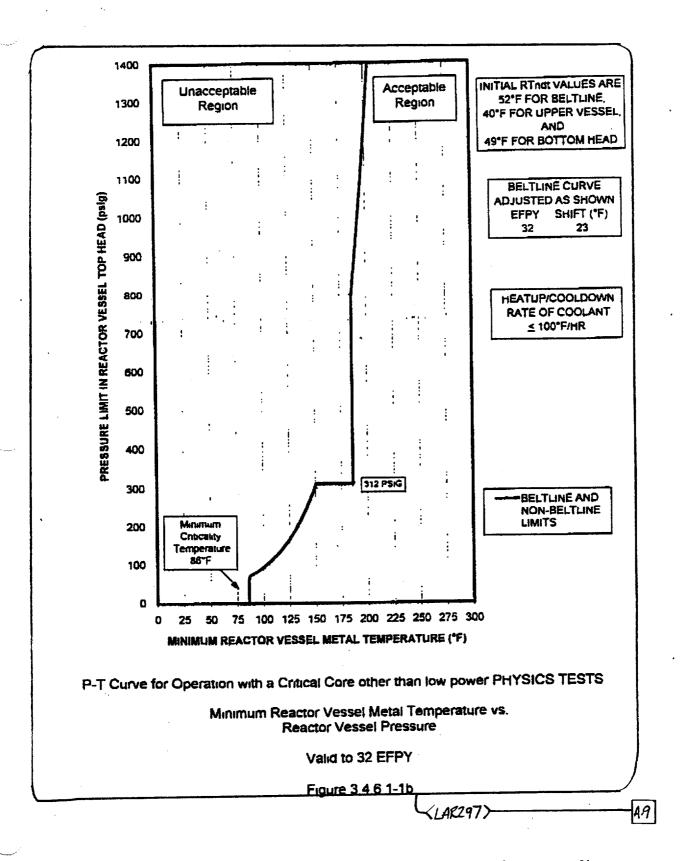


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-	_	۰	-	J

REACTOR STEAM DOME

LIMITING CONDITION FOR OPERATION

3.4.6.2 The pressure in the reactor steam dome shall be less than, 1020 psig-

APPLICABILITY: OPERATIONAL CONDITIONS 15 and 25

or equal to L.I

3

VC110A:

pressure to less t dome pressure exceeding 1020 psig, reduce the 1020 psig within 15 minutes/or be in at least HOT

ACTION 8 -

SURVETILIANCE REQUIREMENTS

4.4.6.2 The reactor steam dome pressure shall be verified to be less than 1020 psig at least once per 12 hours.

orequal to

plicable during anticipated transients.

LA SALLE - UNIT 2

3/4 4/2

Page 20+2

A.1

REACTOR COOLANT SYSTEM

3/4.4.7 MAIN STEAM LINE ISOLATION VALVES

LIMITING CONDITION FOR OPERATION 103.6.1.3 3.4.7 Two main steam line isolation valves (MSIVs) per main steam line shall be OPERABLE with closing times greater than or equal to 3 and less than or 5R3.61.3.6 - equal to 5 seconds. APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. add proposed Note I to Actions add proposed Note 2 to Actions With one or more MSIVs inoperable: Maintain at least one MSIV OPERABLE in each affected main steam line that is open and within 8 hours either: ACTION A 1. Restore the inoperable valve(s) to OPERABLE status, or Isolate the affected main steam line by use of a deactivated MSIV in b) the closed position. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in 2. ACTION E COLD SHUTDOWN within the following 24 hours. Eadd Proposed ACTION B SURVEILLANCE REQUIREMENTS

SP3.6.1.3.6 4.4.7 Each of the above required MSIVs shall be demonstrated OPERABLE by verifying full closure between 3 and 5 seconds when tested pursuant to Specification 4.0.5.

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3/4.4.8 STRUCTURAL INTEGRITY

LIMITING CONDITION FOR OPERATION

3.4.8 The structural integrity of ASME Code Class 1, 2 and/3 components/shall be maintained in accordance with Specification 4.4.8.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 4 and 5.

ACTION:

- a. With the structural integrity of any ASME Code Class 1 component(s) not conforming to the above requirements, restore the structural integrity of the affected component(s) to within its limit or isolate the affected component(s) prior to increasing the Reactor Coolant System temperature more than 50°F above the minimum temperature required by NOT considerations.
- b. With the structural integrity of any ASME Code Class 2 component(s) not conforming to the above requirements, restore the structural integrity of the affected component(s) to within its limit or isolate the affected component(s) prior to increasing the Reactor Coolant System temperature above 200°F.
- c. With the structural integrity of any ASME Code Class 3 component(s) not conforming to the above requirements, vestore the structural integrity of the affected component(s) to within its limit or isolate the affected component(s) from service.

SURVEIL LANCE REQUIREMENTS

4.4.8 No additional Surveillance Requirements other than those required by Specification 4.0.5

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A.1

REACTOR COOLANT SYSTEM	
3/4.4.9 RESIDUAL HEAT REMOVAL	
HOT SHUTDOWN pump is in operation,	
LIMITING CONDITION FOR OPERATION	
3.4.9.1 Two shutdown cooling mode loops of the residual heat removal (RHR) system shall be OPERABLE and at least one shutdown cooling mode loop shall be in operation* (RHR) with each loop consisting of at least:	
a. One OPERABLE RHR pump, and b. One OPERABLE RHR heat exchanger.	
APPLICABILITY: OPERATIONAL CONDITION 3, with reactor vessel pressure less than the RHR cut-in permissive setpoint. [add proposed Actions blate 1]	
add proposed Actions Note 2 A.3	
ACTION A OPERABLE, immediately initiate corrective action to return the required loops to OPERABLE status as soon as possible. Within I hour and at least once per 24 hours thereafter, demonstrate the operability of at least one alternate method capable of decay heat removal for each inoperable RMR shutdown cooling mode loop. Be in at least COLD SHUTDOWN within 24 hours.	
b. With no RHR shutdown cooling mode looplin operation, immediately initiate corrective action to return at least one loop to operation as soon as possible. Within 1 hour establish reactor coolant circulation by an alternate method and monitor reactor coolant temperature and pressure at least once per hour.	
SURVEILLANCE REQUIREMENTS (add proposed SR 3.4.9.1 Note) L.2	· •
SR 3, 4.9.1 At least one shutdown cooling mode loop of the residual heat removal system (or alternate method) shall be determined to be in operation and circulating treasher coolant at least once per 12 hours. B, 2 Or recirculation loop	A.2
#One RHR shutdown cooling mode loop may be inoperable for up to 2 hours for surveillance testing previded the other loop is OPERABLE and in operation.	2
Note: The shutdown cooling pump may be removed from operation for up to 2 hours L.O. Port per 8-hour period provided the other loop is OPERABLE.	2
Affine RHR shutdown cooling mode loop may be removed from operation during A.1 hydrostatic testing.	
SMIRDOWN as required by this ACTION, maintain reactor coolent temperature as low as practical by use of alternate heat removal methods. A.5]

LA SALLE - UNIT 2

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A.(

•	REACTOR COOLANT SYSTEM
	COLD SHUTDOWN
	LIMITING CONDITION FOR OPERATION
LCO 3.4.10	3.4.9.2 Twof shutdown cooling mode loops of the residual heat removal (RHR) system shall be OPERABLE* and at least one shutdown cooling mode loop shall be in operation*** ## with each loop consisting of at least:
	a. One OPERABLE RHR pump, and b. One OPERABLE RHR heat exchanger
	APPLICABILITY: OPERATIONAL CONDITION 4.
	ACTION: (add proposed ACTIONS NOTE) A. 3
Action	With less than the above required RHR shutdown cooling mode loops OPERABLE, within 1 hour and at least once per 24 hours thereafter, demonstrate the operability of at least one alternate method capable of decay heat removal for each inoperable RHR shutdown cooling mode loop. Or recirculation loop
Action	b. With no RHE shutdown cooling mode loop in operation, within I hour establish reactor coolant circulation by an alternate method and
	SURVEILLANCE REQUIREMENTS
	(or recinculation loop) Lil
SR 3.4.10.1 equired	4.4.9.2 At least one shutdown/cooling mode loop of the residual heat removal system (or alternate method shall be determined to be in operation and LA.2 elementating reactor coolent at least once per 12 hours.
10 m	
LCO Note3	#One RHR shutdown cooling mode foop may be inoperable for up to 2 hours for surveillance testing provided the other loop is OPERABLE and in operation.
•	"The period or energency power source may be inoperable. A.4
LCO Note 2	per 8-hour period provided the other loop is OPERABLE
LCO Note 1	The shutdown cooling mode loop may be removed from operation during hydrostatic testing.

A.I

3/4.5 EMERGENCY CORE COOLING SYSTEMS

3/4.5.1 ECCS - OPERATING

LIMITING CONDITION FOR OPERATION

LCO 3.5.	3.5.1 E	CS divisions	1, 2 and 3	shall be	OPERABLE with:
	a.	ECCS division	n 1 consist	ting of:	

- 1. The OPERABLE low pressure core spray (LPCS) system/with/a flow/path capable of taking/suction from the suppression chamber and transferring the water through/the spray sparger to the reactor wassel.
- 2. The OPERABLE low pressure coolant injection (LPCI) subsystem "A" of the RHR system/with/a flow path capable of taking suction from the suppression chamber and transferring the water to the reactor vessel.
- 3. At least 6 OPERABLE ADS valves. A.6
- b. ECCS division 2 consisting of:
 - 1. The OPERABLE low pressure coolant injection (LPCI) subsystems
 "B" and "C" of the RHR system, seach with a flow path capable of
 taking suction from the suppression champer and transferring the
 LA.I
 water to the reactor vessel.
 - 2. At least 6 OPERABLET ADS valves.
- c. ECCS division 3 consisting of the OPERABLE high pressure core spray (HPCS) system/with a flow/path capable of taking swition from the suppression chamber and transferring the water through the spray APPLICABILITY: OPERATIONAL CONDITION 1. 22 Dand 32.

 APPLICABILITY: OPERATIONAL CONDITION 1. 22 Dand 32.

APPLICABILITY: OPERATIONAL CONDITION 1, 2 and 3. Add LCO Note

APPL The ADS is not required to be OPERABLE when reactor steam dome pressure is less than or equal to 222 psig.

##See Special/Test Exception 3.3.3 for trip kystem operability. A.6

LA SALLE - UNIT 2

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EMERGENCY CORE COOLING SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

ACTION:		
Jek	for ECCS division 1, provided that ECCS divisions 2 and 3 are OPERABLE;	A.3
ACTION A	With the LPCS system inoperable, restore the inoperable LPCS system to OPERABLE status within 7 days.	
:	With LPCI subsystem "A" inoperable, restore the inoperable LPCI subsystem "A" to OPERABLE status within 7 days.	
ACTION C -	With the LPCS system inoperable and LPCI subsystem "A" inoperable, restore at least the inoperable LPCI subsystem "A" or the insperable LPCS system to OPERABLE status within 72 hours.	
ACTION E	Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.	
b. /	For ECCS division 2, provided that ECCS divisions 1 and 3 are OPERABLE;	-A.3
ACTION A -	L. (With either LPCI subsystem "8" or "C" inoperable, restore the inoperable LPCI subsystem "8" or "C" to OPERABLE status within [7 days.	•
ACTION C -	 With both LPCI subsystems "8" and "C" inoperable, restore at least the inoperable LPCI subsystem "8" or "C" to OPERABLE status within 72 hours. 	:
MCII WU E -	3. Sotherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours 1. A.4	
ACTION B	For ECCS division 3, provided that ECCS divisions 1 and 2 and the ECIC system are OPERABLE:	
	Mith ECCS division 3 inoperable, restore the inoperable division to OPERABLE status within 14 days.	<u> - 10 </u>
	2. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and is COLD SHUTDOWN within the following 24 hours.	
4	For ECCS divisions 1 and 2. provided that ECCS division 3/1s OPERABLE/	- <u>[A.3]</u>
ACTION C	1. With LPCI subsystem "A" and either LPCI subsystem "B" or "C" inoperable, restore at least the inoperable LPCI subsystem "A" or inoperable LPCI subsystem "B" or "C" to OPERABLE status within 72 hours.	
Whenever SHUTDOWN You as gr	two or more RHR subsystems are inoperable, if unable to attain COLD as required by this ACTION, maintain reactor coolant temperature as actical by use of alternate heat removal methods.	A.4
LA SALLE -	· UNIT 2 3/4 5-2	

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

ACTION C

With the LPCS system inoperable and either LPCI subsystems "B" or "C" inoperable, restore at least the inoperable LPCS system or inoperable LPCI subsystem "B" or "C" to OPERABLE status within 72 hours.

ACTION E 3. Otherwise, be in at least HOT SHUTDOWN within the pext 12 hours and in COLD SHUTDOWN within the following 24 hours A.4

e. For ECCS divisions 1 and 2, provided that ECCS division 3 is 0.3

ACTION F

1. Swith one of the above required ADS valves inoperable, restore the inoperable ADS valve to OPERABLE status within 14 days or be in at least HOT SHUTDOWN within the next 12 hours and reduce reactor steam dome pressure to \(\frac{122}{150} \) psig within the next 24 hours.

ACTION 6

With two or more of the above required ADS valves inoperable, be in at least HOT SHUTDOWN within 12 hours and reduce reactor steam dome pressure to < (120) psig within the next 24 hours.

f. With an ECCS discharge line/"keep filled" pressure alarm instrumentation channel inoperable, perform Surveillance Requirement 4.5.1.a.1 at least/once per 24 hours.

g. With an ECCS header delta P/instrumentation channel inoperable, restore the imperable channel to OPERABLE status/within 72 hours or determine ECCS header delta P locally at least once per 12 hours; otherwise, declare the associated ECCS inoperable.

h. With Surveillance Requirement 4.5.1.d.2 not performed at the required interval due to low/reactor steam pressure, the provisions of Specification 4.0.4 are not applicable provided the surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the test

ADD proposed ACTION H

-A.3

A.4

*Whenever two or more RHR subsystems are inoperable, if unable to attain COLO SHUTDOWN as required by this ACTION, maintain reactor coolant temperature as low as practical by use of alternate heat removal methods.

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A.I.

ITS 3.5.1

MA.3

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

i. In the event an ECCS system is actuated and injects water into the Reactor Coolant/System, a Special Report/shall be prepared and submitted to the Commission pursuant to/Specification 6.6.C within 90 days describing the circumstances of the actuation and the total accumulated actuation cycles to date. The current value of the usage factor for each affected safety injection nozzle shall be provided in this Special Report whenever its value exceeds 0.79.

j. With one or more ECCS corper room watertight doors imperable, restore all the inoperable ECCS corner room watertight doors to OPERABLE status within 14 days, otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

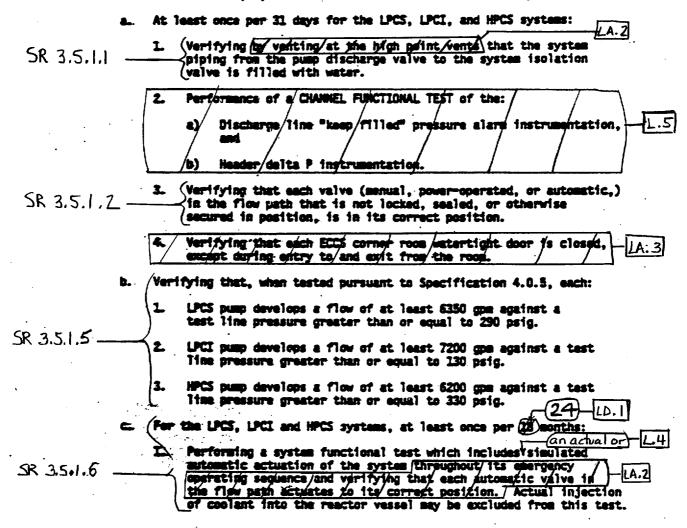
ACTION E

k. With ADS accumulator backup compressed gas system bottle pressure less than 500 psig, restore ADS accumulator backup compressed gas system bottle pressure to greater than 500 psig within 72 hours for declare the associated ADS valves inoperable, and follow Action e of this specification.

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS

4.5.1 ECCS divisions 1, 2, and 3 shall be demonstrated OPERABLE by:



SURVEILLANCE REQUIREMENTS (Continued) Performing a CHANNEL CALIBRATION of the: Discharge line/"keep filled" pressure alarm jhstrumentation and/verifying/the: High pressure setpoint allowable value and the low pressure setpoint allowable value of the: LPCS system to be ≤500 psig and ≥45.5 sig, respectively. LPC1 subsystem "A" to be ≤400 psig and ≥41.0 psig, respectively. (b) LPCI subsystem "B" ±o be ≤400 psig and ≥36.5 11.5 psig, respectively LPCI subsystem 70" to be ≤400 psig apd ≥45.0 **(**d) psig, respectively. Low pressure setpoint allowable value of the HPCS system to be \geq 42.5 psig. Header delta P instrumentation and verifying the setpoint allowable value of the: b) psid. LPCS system and LPC $m{x}$ subsystems to be $m{\pm}$ 1) HPCS system to be 5 ± 2.0 psid greater than the normal indicated AP. Deleted Visually inspecting the FCCS corner room water ight door seals and room penetration seals and reifying no aphormal LA.3 degradation, damage, or/obstructions. /For the ADS by: At least once per 31 days: SR 3.5.1.3 Verify ADS accumulator supply header pressure is ≥ 150 a) psig. Verify ADS accumulator backup compressed gas system bottle b) SR 3.5. 1.4pressure is ≥ 500 psig. At least once per 🚱 monthst 2. 24 (an actual or Performing a system functional test which includes & SR 3.5.1.7 simulated automatic actuation of the system throughout its emergency operating sequence, but excluding actual valve Manually opening each ADS valve and goserving the expected SR 3.5.1.8 change in the indidated halve position. TA.2 on a STAGGERED TEST m.il BASIS for each valve solenoid LSR 3.5.1.8 only) AMENDMENT NO. 103 LA SALLE - UNIT 2 3/4 5-5

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EMERGENCY CORE COOLING SYSTEMS

3/4.5.2 ECCS - SHUTDOWN

ECCS Injection /spray subsystems

LIMITING CONDITION FOR OPERATION

3.5.2 At least two of the following shall be OPERABLE:

LA.

- The low pressure core spray (LPCS) system with a flow path capable of taking suction from the suppression chamber and transferring the water through the spray/sparger to the reactor vessel.
- Low pressure coolant injection (LPCI) subsystem "A" of the RHR system with a flow path capable of taking suction from the suppression chamber upon being manually realigned and transferring the water to the reactor vessel. b. the reactor vessel
- Low pressure coolant injection (LPCI) subsystem "B" of the RHR system with a flow path capable of taking suction from the suppression chamber upon being manually realigned and transferring the water to the reactor vessel.
- Low pressure coolant injection (LDCI) subsystem "C" of the RHR system with a flow path capable of taking suction from the suppression chamber upon being manually realigned and transferring the water to the reactor vessel.
- The high pressure core spray (HPCS) system with a flow path capable of taking suction from the suppression pool and transferring the water through the spray sparger to the reactor vessel.

APPLICABILITY: OPERATIONAL CONDITION 4 or 5*.

Add LCO Note

ACTION:

With one of the above required subsystems/systems inoperable, restore ACTION A ... at least two subsystems/systems to OPERABLE status within 4 hours or (suspend all operations that have a potential for draining the reactor ACTION B -(vesse). (With both of the above required subsystems/systems inoperable, suspend CORE ALTERATIONS and all operations that have a potential for draining the reactor vessel. Restore at least one subsystem/
system to OPERABLE status within 4 hours or establish/SECONDARY A.2

CONTAINMENT INTEGRITY within the next 8 hours. ACTIONC ACTION D

APPL

*The ECCS is not required to be OPERABLE provided that the reactor respel/head A.4 is vemoved, the cavity is flooded. The spent fuel pool gates are removed, and water level is maintained within the limits of Specifications 3.9.8 and 3.9.9.

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EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS

SR 3.5.2.3

SR 3.5.2.4

4.5.2.1 At least the above required ECCS shall be demonstrated OPERABLE per
SR 3.5.2.4

Surveillance Requirement 4.5.1. except that the header dolta p instrumentation

SR 3.5.2.5

SR 3.5.2.6

A.5

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AMENDMENT NO. 65

EMERGENCY CORE COOLING SYSTEMS	[A.I]
3/4.5.3 SUPPRESSION CHAMBER A.8	Moved to A.6
LIMITING CONDITION FOR OPERATION	ITS 3.6.2.2 A.6
3.5.3 The suppression chamber shall be OPERA	BLE:
a. In OPERATIONAL CONDITION 1, 2, or 3 at least 128,800 ft ³ , equivalent to	with a contained water volume of a level of -4 1/2 inches.**
b. In OPERATIONAL CONDITION 4 or 5* wi (least 78,000/ft ⁸ ,/equivalent to/a 1	th/a gontained water volume of at evel of -12 feet 7 inches.
APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, ACTION:	
a. In OPERATIONAL CONDITION 1, 2, or 3 water level less than the above lim within the limit within 1 hour or b the next 12 hours and in COLD SHUTD	it, restore the water level to e in at least HOT SHUTDOWN within
ACTION C b. (In OPERATIONAL CONDITION 4 or 5* windless than the above limit, surpressions that have a potential for	spend/PORE ALTERATIONS and all () r draining the reactor vessel and
ACTION D TOCK the reactor mode switch in the SECONDARY CONTAINMENT INTEGRITY FIT	/Shutdown mosimion.) [Establish/ /
	roposed Required Action C-2 L-3

APPL

APPL

APPL

APPL

The suppression chamber is not required to be OPERABLE provided that the reactor vessely head is regloved the cavity is fleoded on being flooded from the suppression pool the spent fuel pool gates are removed when the cavity is flooded, and the water level is maintained within the limits of Specifications 3.9.8 and 3.9.9.

**Revel is referenced to a plant elevation of 699 feet 11 inches (see [1A.3])

Figure 8 3/4.6.2-1).

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EMERGENCY CORE COOLING SYSTEMS

3/4.5.3 SUPPRESSION CHAMBER >

(A. Z

LIMITING CONDITION FOR OPERATION

LCO 3.6, 2.2
3.5.3 The suppression chamber shall be OPERABLE:

a. In OPERATIONAL CONDITION 1, 2, or 3 with a contained water volume of at least 128,800 ft. equivalent to a level of -4 1/2 inches.

(A.I)

Moved to ITS 3.5.2

b. In OPERATIONAL CONDITION 4 or 5* with a contained water volume of at least 70,000 ft³, equivalent to a level of -12 feet 7 inches.**

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 4, and 5*.

ACTION:

a. In OPERATIONAL CONDITION 1, 2, or 3 with the suppression chamber water level less than the above limit, restore the water level to within the limit within the following bein at least HOT SHUTDOWN within Action & the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

b. In OPERATIONAL CONDITION 4 or 5* with the suppression chamber water level less than the above limit, suspend CORE ALTERATIONS and all operations that have a potential for draining the reactor vessel and lock the reactor mode switch in the Shutdown position. Establish SECONDARY CONTAINMENT INTEGRITY within 8 hours.

The suppression chamber is not required to be OPERABLE provided that the reactor vessel head is removed, the cavity is flooded or being flooded from the suppression pool, the spent fuel pool gates are removed when the cavity is flooded, and the water level is maintained within the limits of Specifications 3.9.8 and 3.9.9.

**Level is referenced to a plant elevation of 699 feet 11 inches (see Figure B 3/4.6.2-1).

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SURVEILLANCE REQUIREMENTS

The suppression chamber shall be determined OPERABLE by verifying: 4.5.3.1 The water level to be greater than or equal to, as applicable: a. Moved to ITS 3.6.2.2 -4 1/2 inches at least once per 24 hours. SR 3.5.2.1 5R 3.5.2.2 -12 feet 7 inches at least once per 12 hours. LA.3

4.5.32 With the suppression chamber level less than the above limit in OPERA-TIONAL CONDITION 5*, at least once per 12 hours verify footnote conditions to be satisfied.

The suppression chamber is not required to be OPERABLE provided that the reactor vessel head is removed, the cavity is flooded or being flooded from the suppression pool, the spent fuel pool gates are removed when the cavity is flooded, and the water level is maintained within the limits of Specifications 3.9.8 and 3.9.9. Revelis referenced to a plant/elevation of/699 feet 11 inches/(See

Figure B \$/4.6/2-1

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A.T

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS

- 4.5.3.1 The suppression chamber shall be determined OPERABLE by verifying:
- 503,6,2,2,1 a. The water level to be greater than or equal to, as applicable:

LA.I

1. -4 1/2 inches at least once per 24 hours.

2. -12 feet 7 inches** at least once per 12 hours.

4.5.3.2 With the suppression chamber level less than the above limit in OPERA-TIONAL CONDITION 5*, at least once per 12 hours verify footnote conditions* to be satisfied.

Movel to

*The suppression chamber is not required to be OPERABLE provided that the reactor vessel head is removed, the cavity is flooded or being flooded from the suppression pool, the spent fuel pool gates are removed when the cavity is flooded, and the water level is maintained within the limits of Specifications 3.9.8 and 3.9.9

Sevel is referenced to a plant elevation of 699 feet 11 inches (See Figure B 3/4.6.2-1).

LAA

movelto

IT53.5.2

	3/4.6	CONTAINMENT SYSTEMS	
	3/4.6.1	PRIMARY CONTAINMENT	
	PRIMARY	CONTAINMENT INTEGRITY (A.1)	_
<i>></i>	LIMITIN	G CONDITION FOR OPERATION	ITS 3.6.1.1
LCO 3.6.1.1	3.6.1.1	PRIMARY CONTAINMENT (WITEGRATY) shall be maintained. OPERABLE	A.2
	APPLICA	BILITY: OPERATIONAL CONDITIONS 1, 2, Fand 3.	A3
	ACTION:		
ACTION A -	Without Within 1 COLD SHU	PRIMARY CONTAINMENT (INTEGRITY), restore PRIMARY CONTAINMENT (INTEGRITY) hour or be in at least HOT SHUTDOWN within the next 12 hours and in ITDOWN within the following 24 hours.	A.2
	SURVEILL	ANCE REQUIREMENTS	
	4.6.1.1	PRIMARY CONTAINMENT (MTEGRATY) shall be demonstrated: OPERABLE	A.2
		At least once per 31 days by verifying that all primary containment penetrations not capable of being closed by OPERABLE containment automatic isolation valves and required to be closed during accide conditions are closed by valves, blind flanges, or deactivated automatic valves secured in position, except for valves that are open under administrative control as permitted by Specification 3.6.3.	ì
JR 3	b. 3.6.4.1	Perform required visual examinations and leakage rate testing exce for primary containment air lock testing and main steam lines through the isolation valves, in accordance with and at the frequency specified by the Primary Containment Leakage Rate Testin Program.	

Except valves, blind flanges, and deactivated automatic valves which are located inside the containment, and are locked, sealed or otherwise secured in the closed position. These penetrations shall be verified closed during each COLD SHUTDOWN except such verification need not be performed when the primary containment has not been deinerted since the last verification or moved to 175 3.6.1.3

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[A.1]

3/4.6 CONTAINMENT SYSTEMS

3/4.6.1 PRIMARY CONTAINMENT

PRIMARY CONTAINMENT INTEGRITY

LIMITING CONDITION FOR OPERATION 3.6.1.1 PRIMARY CONTAINMENT INTEGRITY shall be maintained. APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. ACTION: Without PRIMARY CONTAINMENT INTEGRITY, restore PRIMARY CONTAINMENT INTEGRITY within 1 hour or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours. add proposed Notes land 2 to Required SURVEILLANCE REQUIREMENTS Actions Arzand C.Z and SR3,6.1.3.20nd 4.6.1.1 PRIMARY CONTAINMENT INTEGRITY shall be demonstrated: SR 3.6,1 3.3 At least once per 31 days by verifying that all primary containment penetrations not capable of being closed by OPERABLE containment automatic isolation valves and required to be closed during accident Required Actions 2. 8 and Not locked A.Zand C.Zaul secked, or SR3.61.3.7 conditions are closed by valves, blind flanges, or deactivated automatic valves secured in position, except for valves that are open under administrative control as permitted by Specification Secure & 583.6.1.3.2) 1.11 Require & Actions 3.6.3. orcheckvalues with Ibu secured A. 2 6 4 6 C. 2

Note 1 to Actions, Note 2 to SR3.6.1.3.2, GN& Note 2 to SR3.6.1.3.3 Perform required visual examinations and leakage rate testing except for primary containment air lock testing and main steam lines through the isolation valves, in accordance with and at the frequency specified by the Primary Containment Leakage Rate Testing Program.

See ITS 3.6.1.1)

Required Action A.2 and SR36.1.3.3 Except valves, blind flanges, and deactivated automatic valves which are located inside the containment, and are locked, sealed or otherwise secured in the closed position. These penetrations shall be verified closed during each COLD SHUTDOWN except such verification need not be performed when the primary containment has not been deinerted since the last verification or more often than once per 92 days.

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A.1

SURVEILLANCE REQUIREMENTS (Continued)

ITS 3.6.1.1

- c. By verifying each primary containment air lock OPERABLE per specification 3.6.1.3.
 - By verifying the suppression chamber OPERABLE per Specification 3.6.2.1;

A.5

SR3.6.1.1.2

e. Verify primary containment structural integrity in accordance with the Inservice Inspection Program for Post Tensioning Tendons. The frequency shall be in accordance with the Inservice Inspection Program for Post Tensioning Tendons.

LA SALLE - UNIT 2

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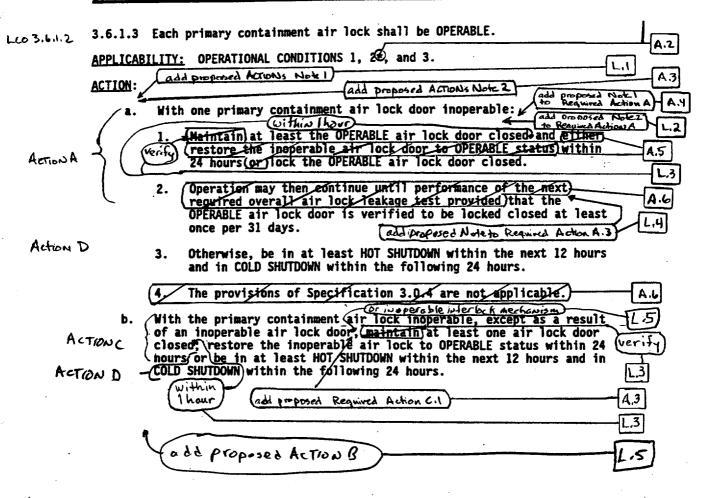
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PRIMARY CONTAINMENT AIR LOCKS

A.I

LIMITING CONDITION FOR OPERATION



*See Special Test Exception 3.10.1.

A.2

LA SALLE - UNIT 2

3/4 6-5

Amendment No. 95

b.

A.C

SURVEILLANCE REQUIREMENTS

4.6.1.3 Each primary containment air lock shall be demonstrated OPERABLE:

By performing required primary containment air lock leakage testing in accordance with and at the frequency specified by the Primary SR3.6.1.2.1 Containment Leakage Rate Testing Program, ..

5R3.61.2.2

At least once per 6 months by verifying that only one door in each air lock can be opened at a time.

Proposed Note 1 to SR 3.6.1.2.1 add

A.3

Notez to 50.3.6.1.2.1

LA SALLE - UNIT 2

Results shall be evaluated against acceptance criteria applicable to Specification 4.6.1.1.b.

Only required to be performed upon entry into primary containment air lock when the primary containment is de-inerted.

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Amendment No. 95

[A.I]

CONTAINMENT SYSTEMS

DRYWELL AND SUPPRESSION CHAMBER INTERNAL PRESSURE

LIMITING CONDITION FOR OPERATION

LCO 3.6,1.4

3.6.1.6 Drywell and suppression chamber internal pressure shall be maintained between - 0.5 and (+2.0) psig.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

With the drywell and suppression chamber internal pressure outside of the specified limits, restore the internal pressure to within the limits within 1 hour or be in at least HOT SHUTDOWN within the next 12 hours and in COLD ACTION B - SHUTDOWN within the following 24 hours.

SURVEILLANCE REQUIREMENTS

5R3 6.1.4 4.6.1.6 The drywell and suppression chamber internal pressure shall be determined to be within the limits at least once per 12 hours.

DRYWELL AVERAGE AIR TEMPERATURE

LIMITING CONDITION FOR OPERATION

LC03.6.1.5

3.6.1.7 Drywell average air temperature shall not exceed 135°F.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

ACTIONA (With the drywell average air temperature greater than 135°F, reduce the average lair temperature to within the limit within 8 hours for be in at least HOT SHUTDOWN ACTION B Within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

SURVEILLANCE REQUIREMENTS

5R3.6.1.5.1

4.6.1.7 The drywell average air temperature shall be the average temperature of the operating return air plenum upstream of the primary containment ventilation heat exchanger coil and cabinet at the following locations and shall be determined to be within the limit at least once per 24 hours:

	Exevation	Aximuth
/		
/ a.	740 ' ዕኒ	248
Ь.	740'0"	248 ⁸ 76°
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	~ ~



DRYWELL AND SUPPRESSION CHAMBER PURGE SYSTEM

LIMITING CONDITION FOR OPERATION 3.6.1.8 The drywell and suppression chamber purge system may be in operation with the drywell or suppression chamber purce supply and exhaust butterfly isolation valves open for inerting, 1603,611.3 deinerting, and pressure control. Purging through the Standby Gas Treatment System shall be restricted to less than or equal to 90 hours per 365 days. APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. add proposed ACTIONS Note 1 add proposed ACTIONS Note 2 ACTION: With any drywell or suppression chamber purge supply or exhaust butterfly isolation valve open (or other than inenting, demerting, or pressure control) close the butterfly valve(s) within Thour or ACTIONS the in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the Hand C \following 24 hours. ACTION E SURVEILLANCE REQUIREMENTS 4.6.4.8.1 The cumulative time that the drywell and suppression chamber purge system has been in operation purging through the Standby Gas Treatment System shall be verified to be less than or equal to 90 hours per 365 days prior to use in this mode of operation. add proposed SR 3.6.1.3.1

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3/4 6-18

Amendment No. 110

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3/4.6.2 DEPRESSURIZATION SYSTEMS

SUPPRESSION CHAMBER

LIMITING CONDITION FOR OPERATION

IT5 3.6.1.1

L.3

3.6.2.1 The suppression chamber shall be OPERABLE with:

- a. The pool water:
 - Volume between 131,900 ft³ and 128,800 ft³, equivalent to a level between +3 inches^{ax} and -4 1/2 inches^{ax}, and a

A.1

- 2. Maximum average temperature of 105°F during OPERATIONAL CONDITION 1 or 2, except that the maximum average temperature may be permitted to increase to:
 - a) 110°F with THERMAL POWER less than or equal to 1% of RATED THERMAL POWER.
 - b) 120°F with the main steam line isolation valves closed following a scram.

LCO 3.6.1.1

b. Drywell-to-suppression chamber bypass leakage less than or equal to 10% of the acceptable $N\sqrt{k}$ design value of 0.03 ft².

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

- a. With the suppression chamber water level outside the above limits; restore the water level to within the limits within 1 hour or be in at least HOT SHUTDOWN within the next 12 hours and in CDLD SHUTDOWN within the following 24 hours.
- b. In OPERATIONAL CONDITION 1 or 2 with the suppression chamber average water temperature greater than or equal to 105°F, stop all testing which adds heat to the suppression pool, and restore the average temperature to less than or equal to 105°F within 24 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours, except, as permitted above:
 - With the suppression chamber average water temperature greater than 110°F, place the reactor mode switch in the Shutdown position and operate at least one residual heat removal loop in the suppression pool cooling mode.
 - With the suppression chamber average water temperature greater than 120°F, depressurize the reactor pressure vessel to less than 200 psig within 12 hours.

#See Specification 3.5.3 for ECCS requirements.

***Revel is referenced to a plant elevation of 699 feet 11 inches (See Figure 8 3/4.6.2-1).

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See ITS 3.6.2.1 and ITS3.6.2.2>

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3/4.6.2 DEPRESSURIZATION SYSTEMS

SUPPRESSION CHAMBER

(See IT53.6.2.2)

LIMITING CONDITION FOR OPERATION

LC0 3.6. 2.1

3.6.2.1 The suppression chamber shall be OPERABLE with:

- The pool water:
 - Volume between 131,900 ft 3 and 128,800 ft 3 , equivalent to a level between +3 inches** and -4 1/2 inches**, and a
- Maximum average temperature of 105°F during OPERATIONAL L@3.6.2.1.9 2. CONDITION 1 or 2) except that the maximum average temperature may be permitted to increase to:
 - 110°F with THERMAL POWER Pless than or equal to 1% of LC0 3.6.2.1.b a) RATED THERMAL POWER
 - 120°F with the main steam line isolation valves closed (3NDITION D b) following a scrame
 - Drywell-to-suppression chamber bypass leakage less than or equal to 10% of the acceptable A/\sqrt{k} design value of 0.03 ft². movedto

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ITS 3.6.1.1

A ، ي

ACTION:

- With the suppression chamber water level outside the above limits, restore the water level to within the limits within 1 hour or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- (In OPERATIONAL CONDITION 1 or 2 with the suppression chamber average water temperature greater than or equal to 105°F, stop all testing ACTIONA which adds heat to the suppression pool, and restore the average temperature to less than or equal to 105°F within 24 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN ACTIONA 1A. Z within the following 24 hours, except, as permitted above:

With the suppression chamber average water temperature greater than 110°F, place the reactor mode switch in the Shutdown ACTIONC position and operate at least one residual heat removal loop in the suppression pool cooling mode.

2. With the suppression chamber average water temperature greater ACTION D than 120°F, depressurize the reactor pressure vessel to less than 200 psig within 12 hours. and be in MODE 4 in 36 hour

#See Specification 3.5.3 for ECCS requirements. **Level is referenced to a plant elevation of 699 feet 11 inches (See Figure B 3/4.6.2-1).

LA SALLE - UNIT 2

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CONTAIN	MENT S	Y	'57	EMS

3/4.6.2 DEPRESSURIZATION SYSTEMS

SUPPRESSION CHAMBER

1A.2

A1

LIMITING CONDITION FOR OPERATION

LC03.6.2.2

3.6.2.1 The suppression chamber shall be OPERABLE with:

- a. The pool water:
 - 1. Volume between 131,900 ft and 128,800 ft equivalent to a level between +3 inches and -4 1/2 inches and a
 - Maximum average temperature of 105°F during OPERATIONAL CONDITION 1 or 2, except that the maximum average temperature may be permitted to increase to:
 - a) 110°F with THERMAL POWER less than or equal to 1% of RATED THERMAL POWER.
 - b) 120°F with the main steam line isolation valves closed following a scram.
- b. Drywell-to-suppression chamber bypass leakage less than or equal to 10% of the acceptable A/\sqrt{k} design value of 0.03 ft².

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

(See ITS 3.6.2.1)

ACTION:

ACTION Aa. (With the suppression chamber water level outside the above limits, restore the water level to within the limits within hour or be in at least HOI SHUIDOWN within the next 12 hours and in COLD SHUIDOWN within the following 24 hours.

- b. In OPERATIONAL CONDITION 1 or 2 with the suppression chamber average water temperature greater than or equal to 105°F, stop all testing which adds heat to the suppression pool, and restore the average temperature to less than or equal to 105°F within 24 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours, except, as permitted above:
 - With the suppression chamber average water temperature greater than 110°F, place the reactor mode switch in the Shutdown position and operate at least one residual heat removal loop in the suppression pool cooling mode.
 - 2. With the suppression chamber average water temperature greater than 120°F, depressurize the reactor pressure vessel to less than 200 psig within 12 hours.

#See Specification 3.5.3 for ECCS requirements
**Level is referenced to a plant elevation of 699 feet 11 inches (See Figure 8 3/4.6.2-1).

7 . 2

LA SALLE - UNIT 2

3/4 6-19

Amendment No. 49
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LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

c. Deleted.

d. Deleted.

within one hour, or be Mode 3 in 12 hours, and Mode 4 in 36 hours.

ACTION A

With the drywell-to-suppression chamber bypass leakage in excess of the limit, restore the bypass leakage to within the limit prior to increasing reactor coolant temperature above 200 F.

SURVEILLANCE REQUIREMENTS

- 4.6.2.1 The suppression chamber shall be demonstrated OPERABLE:
 - a. By verifying the suppression chamber water volume to be within the limits at least once per 24 hours.
 - b. At least once per 24 hours in OPERATIONAL CONDITION 1 or 2 by verifying the suppression chamber average water temperature to be less than or equal to 105°F, except:
 - 1. At least once per 5 minutes during testing which adds heat to the suppression chamber, by verifying the suppression chamber average water temperature less than or equal to 105°F.
 - 2. At least once per 60 minutes when suppression chamber average water temperature is greater than 105°F, by verifying suppression chamber average water temperature less than or equal to 110°F and THERMAL POWER less than or equal to 1% of RATED THERMAL POWER.
 - 3. At least once per 30 minutes following a scram with suppression chamber average water temperature greater than or equal to 105°F, by verifying suppression chamber average water temperature less than or equal to 120°F.

(See ITS 3.6.2.10M ITS 3.6.2.2)

Amendment No. 103

LA SALLE - UNIT 2

3/4 6-20

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

- c. Deleted.
- d. Deleted.
- e. With the drywell-to-suppression chamber bypass leakage in excess of the limit, restore the bypass leakage to within the limit prior to increasing reactor coolant temperature above 200°F.

Move 2 to ITS 3.6.1.1

SURVEILLANCE REQUIREMENTS

4.6.2.1 The suppression chamber shall be demonstrated OPERABLE:

a. By verifying the suppression chamber water volume to be within the limits at least once per 24 hours. See ITS 3.6.2.2

SR 3.6.21.1 At least once per 24 hours in <u>OPERATIONAL CONDITION 1</u> or 2 by verifying the suppression chamber average water temperature to be less than or equal to 105°F, except:

A.2

- At least once per 5 minutes during testing which adds heat to the suppression chamber, by verifying the suppression chamber average water temperature less than or equal to 105°F.
- Required Action A.2
- At least once per 60 minutes when suppression chamber average water temperature is greater than 105°F, by verifying suppression chamber average water temperature less than or equal to 110°F and THERMAL POWER less than or equal to 1% of RATED THERMAL POWER.

L.2

Reguired Achan C.2 At least once per 30 minutes following a scram with suppression chamber average water temperature greater than or equal to 105°F, by verifying suppression chamber average water temperature less than or equal to 120°F.

LA SALLE - UNIT 2

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Amendment No. 103

(See ITS 36.21)

CONTAINMENT SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

- c. Deleted.
- d. Deleted.
- e. With the drywell-to-suppression chamber bypass leakage in excess of the limit, restore the bypass leakage to within the limit prior to increasing reactor coolant temperature above 200°F.

SURVEILLANCE REQUIREMENTS

4.6.2.1 The suppression chamber shall be demonstrated OPERABLE:

SR3-6.2.2.1 a. By verifying the suppression chamber water volume to be within the limits at least once per 24 hours.

- b. At least once per 24 hours in OPERATIONAL CONDITION 1 or 2 by verifying the suppression chamber average water temperature to be less than or equal to 105°F, except:
 - At least once per 5 minutes during testing which adds heat to the suppression chamber, by verifying the suppression chamber average water temperature less than or equal to 105°F.
 - 2. At least once per 60 minutes when suppression chamber average water temperature is greater than 105°F, by verifying suppression chamber average water temperature less than or equal to 110°F and THERMAL POWER less than or equal to 1% of RATED THERMAL POWER.
 - 3. At least once per 30 minutes following a scram with suppression chamber average water temperature greater than or equal to 105°F, by verifying suppression chamber average water temperature less than or equal to 120°F.

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Amendment No. 103

SURVEILLANCE REQUIREMENTS (Continued)

c. Deleted.

SR 3.6.1.1.3 0.

By conducting drywell-to-suppression chamber bypass leak tests at least once per 18 months at an initial differential pressure of 1.5 ps] and verifying that the A/Vk calculated from the measured leakage is within the specified limit.

[A.6]

If any 1.5 psi leak test results in a calculated A/* >20% of the specified limit, then the test schedule for subsequent tests shall be reviewed by the Commission.

If two consecutive 1.5 psi leak tests result in a calculated A/√k greater than the specified limit, then:

- 1. A 1.5 psi leak test shall be performed at least once per 9 months until two consecutive 1.5 psi leak tests result in the calculated A/4k within the specified limits. and
- 2. A 5 psi leak test, performed with the second consecutive successful 1.5 psi leak test, results in a calculated M/4k within the specified limit, after which the above schedule of once per 18 months for only 1.5 psi leak tests may be resumed.

If any required 5 psi leak test results in a calculated A/k greater than the specified limit, then the test schedule for subsequent tests shall be reviewed by the Commission.

If two consecutive 5 psi leak tests result in a calculated A//k greater than the specified limit, then a 5 psi leak/test shall be performed at least once per 9 months until two consecutive 5 psi leak tests result in a calculated A//k within the specified limit, after which the above schedule of once per 18 months for only 1.5 psi leak tests may be resumed.

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SURVEILLANCE REQUIREMENTS (Continued)

c. Deleted.

d. By conducting drywell-to-suppression chamber bypass leak tests at least once per 18 months at an initial differential pressure of 1.5 psi and verifying that the A/√k calculated from the measured leakage is within the specified limit.

If any 1.5 psi leak test results in a calculated $A/\sqrt{k} > 20\%$ of the specified limit, then the test schedule for subsequent tests shall be reviewed by the Commission.

If two consecutive 1.5 psi leak tests result in a calculated A/\sqrt{k} greater than the specified limit, then:

- 1. A 1.5 psi leak test shall be performed at least once per 9 months until two consecutive 1.5 psi leak tests result in the calculated A/√k within the specified limits, and
- 2. A 5 psi leak test, performed with the second consecutive successful 1.5 psi leak test, results in a calculated A/√k within the specified limit, after which the above schedule of once per 18 months for only 1.5 psi leak tests may be resumed.

If any required 5 psi leak test results in a calculated A/\sqrt{k} greater than the specified limit, then the test schedule for subsequent tests shall be reviewed by the Commission.

If two consecutive 5 psi leak tests result in a calculated A/\sqrt{k} greater than the specified limit, then a 5 psi leak test shall be performed at least once per 9 months until two consecutive 5 psi leak tests result in a calculated A/\sqrt{k} within the specified limit, after which the above schedule of once per 18 months for only 1.5 psi leak tests may be resumed.

A.3

ITS3.6.1.1

SUPPRESSION POOL SPRAY

LIMITING CONDITION FOR OPERATION

L03.6.2.4

3.6.2.2 The suppression pool spray mode of the residual heat removal (RHR) system shall be OPERABLE with two independent loops, each loop consisting of:

- a. One OPERABLE RHR pump, and
- An OPERABLE flow path capable of recirculating water from the suppression chamber.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

ACTION A a. With one suppression pool spray loop inoperable, restore the inoperable loop to OPERABLE status within 7 days for be in at least HOT SHUTDOWN ACTION C Within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

ACTIONS b. Swith both suppression pool spray loops inoperable, restore at least one loop to OPERABLE status within 8 hours for be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the A.2 following 24 hours.

SURVEILLANCE REQUIREMENTS

4.6.2.2 The suppression pool spray mode of the RHR system shall be demonstrated OPERABLE:

SR3.6.2.4.1 a. At least once per 31 days by verifying that each valve (manual, power-operated, of automatic), in the flow path that is not locked, sealed, or otherwise secured in position, is in its correct position.

By verifying that each of the required RHR pumps develops a flow of at least 450 gpm on recirculation flow through the suppression pool spray sparger when tested pursuant to Specification 4.0.5.

or can be aliqued to the correct Position

*Whenever both RHR subsystems are inoperable, if unable to attain COLD SHUTDOWN as required by this ACTION, maintain reactor coolant temperature as low as practical by use of alternate heat removal methods.

A.2

7 days

A.1

CONTAINMENT SYSTEMS

SUPPRESSION POOL COOLING

LIMITING CONDITION FOR OPERATION

LCO 3.6.2.3

3.6.2.3 The suppression pool cooling mode of the residual heat removal (RHR) system shall be OPERABLE with two independent loops, each loop consisting of:

a. One OPERABLE RHR pump; and

b. An OPERABLE flow path capable of recirculating water from the suppression chamber through an RHRSW heat exchanger.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

ACTION A . With one suppression pool cooling loop inoperable, restore the inoperable loop to OPERABLE status within Cooperable for be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

Castore one subsystem to OPERABLE Status within 8 hours

ACTION Bb. (With both suppression pool cooling loops inoperable, be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWNS within the next ACTION C (24 hours.)

SURVEILLANCE REQUIREMENTS

4.6.2.3 The suppression pool cooling mode of the RHR system shall be demonstrated OPERABLE:

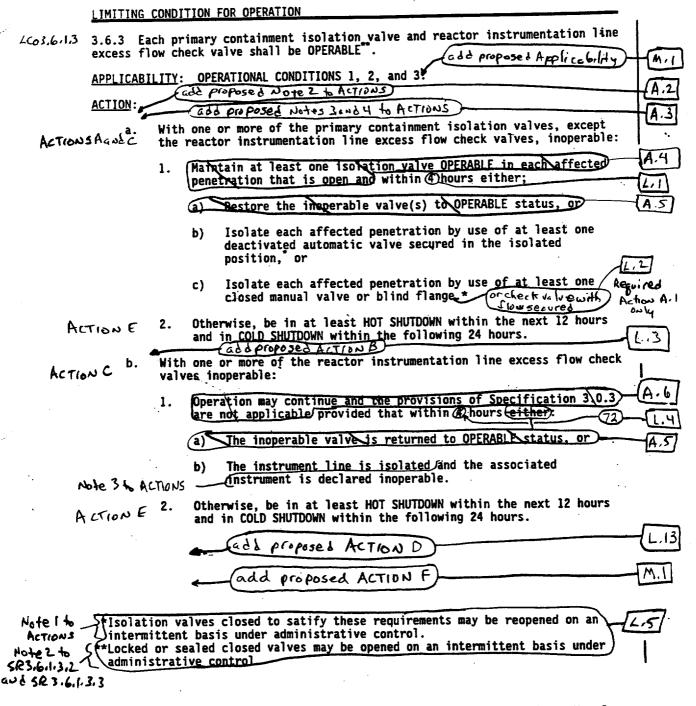
At least once per 31 days by verifying that each valve (manual, power-operated, or absomatio), in the flow path that is not locked, sealed, or otherwise secured in position, is in its correct position.

By verifying that each of the required RHR pumps develops a flow of at least 7200 gpm on recirculation flow through the RHR heat exchanger and the suppression pool when tested pursuant to Specification 4.0.5.

or can be aligned to the correct Position

*Whenever both RHR subsystems are inoperable, if unable to attain BOLD SHUTDOWN as required by this ACTION, maintain reactor coolant temperature as low as practical by use of alternate heat removal methods.

3/4.6.3 PRIMARY CONTAINMENT ISOLATION VALVES



LA SALLE - UNIT 2

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Amendment No. 87

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	SURVEILLANCE REQUIREMENTS	
	4.6.3.1 Each primary containment isolation valve OPERABLE prior to returning the valve to service replacement work is performed on the valve or it or power circuit by cycling the valve through at full travel and verifying the specified isolation	s associated actuator, control least one complete cycle of L.77
	4.6.3.2 Each primary containment automatic isoldemonstrated OPERABLE <u>during COLD SHUTSOWN or Remonths</u> by verifying that on a containment isolatisolation valve actuates to its isolation positi	ion test signal each automatic
	4.6.3.3 The isolation time of each primary cont automatic isolation valve shall be determined to tested pursuant to Specification 4.0.5.	be within its limit when
(1.6.3.4 Each reactor instrumentation line excess demonstrated OPERABLE at least once per 18 month fecks flow for the isolation position)	s flow check valve shall be s by verifying that the valve
	1.6.3.5 Each traversing in-core probe system expe demonstrated OPERABLE:	plosive isolation valve shall
SR3,6.1.	3,4 a. At least once per 31 days by verifying explosive charge.	
3R3,611	least one explosive valve/such that the	t once per 90 months. Fand (20) TEST BASIS
	explosive squib. The respondence of the same of the sa	peen certified by having at ired. No explosive soulb
. 4	.6.3.6 At the frequency specified by the Primar Testing Program:	ry Containment Leakage Rate
583.6.1 ^{,3}	a. Verify leakage rate for any one main st valves is ≤ 100 scfh, not to exceed 400 steamlines when tested at ≥ 25.0 psig.	eamline through the isolation) scfh for all four main
5R3.61.3	 b. Verify combined leakage rate through hy that penetrate the primary containment 	drostatically tested lines is within limits.

3/4 6-26

Amendment No. 97

LA SALLE - UNIT 2

M.1

CONTAINMENT SYSTEMS

3/4.6.4 VACUUM RELIEF

LIMITING CONDITION FOR OPERATION

1003.6.46

3.6.4 All suppression chamber - drywell vacuum breakers shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

ACTION A

With one suppression chamber - drywell vacuum breaker inoperable for opening, restore the inoperable vacuum breaker to OPERABLE status within 72 hours for be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

Within the to

b. With one suppression chamber -drywell vacuum breaker inoperable and open, within 4 hours close the manual isolation valves on both sides of the inoperable and open vacuum breaker. Restore the inoperable vacuum breaker to OPERABLE status within 72 hours or be in at least HOT SHUTDOWN within the next 12 hours

ACTION C — (and in COLD SHUTDOWN within the following 24 hours.

SURVEILLANCE REQUIREMENTS

add proposed ACTION D

4.6.4.1 Each suppression chamber - drywell vacuum breaker shall be:

SR34161

JR36.1.6.2

ACTION B

a. Verified closed at least once per 14 days.

b. Demonstrated OPERABLE;

b. Demonstrated OPERABLE.

1. At least once per days and within 12 hours after any discharge of steam to the suppression chamber from the safety-relief valves, by cycling each vacuum breaker through at least one complete cycle of full travel.

2. At least once per months by verifying the force required to open the vacuum breaker from the closed position to be less than or equal to 0.5 psid.

SR3.6.163

583.6.1.6.1 Notes 1 and 2 Surveillance Requirement 4.6.4.1.a is not required to be met for suppression chamber - drywell vacuum breakers that are open during Surveillances or for suppression chamber - drywell vacuum breakers that are functioning for pressure relief during normal and off-normal plant operations.

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3/4.6.5 SECONDARY CONTAINMENT

SECONDARY CONTAINMENT INTEGRITY

LIMITING CONDITION FOR OPERATION

3.6.5.1 SECONDARY CONTAINMENT (NIEGRITO shall be maintained *COPERABLE*

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, and *.

ACTION:

Without SECONDARY CONTAINMENT (NTEGRAT)

OPERABLE) TOPERABLE status

a. (In OPERATIONAL CONDITION 1, 2, or 3, restore SECONDARY CONTAINMENT (INTEGR.) within 4 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours. ACTION B

In OPERATIONAL CONDITION *, suspend handling of irradiated fuel in the secondary containment, CORE ALTERATIONS and operations with a ACTION C potential for draining the reactor vessel. The provisions of Specification 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

OPERABILITY

M.2

A.2

SECONDARY CONTAINMENT INTEGRATE shall be demonstrated by:

5R3,6,4,1ª. Verifying at least once per 24 hours that the pressure within the secondary containment is less than or equal to 0.25 inch of vacuum water gauge.

MI

Verifying at least once per 31 days that:

SR3.6.4.1.2

At least one door in each access to the secondary containment is closed.

A.3 A.4

All secondary containment penetrations not capable of being closed by OPERABLE secondary containment automatic isolation dampers and required to be closed during accident conditions are closed by valves, blind flanges, or deactivated automatic dampers secured in position. 24

moveato ITS 3.6.4.2

At least once per (18) months:

CON a STAGGERED TEST BASIS

LP-1

583,6,4,1,3 Verifying that one standby gas treatment subsystem will draw down the secondary containment to greater than or equal to 0.25 inch of vacuum water gauge in less than or equal to 300 seconds, and

SR 3.6,4,6,42. Operating one standby gas treatment subsystem for one hour and maintaining greater than or equal to 0.25 inch of vacuum water gauge in the secondary containment at a flow rate not exceeding $4000 \text{ cfm} \pm 10\%$.

Applicability

When irradiated fuel is being handled in the secondary containment and during CORE ALTERATIONS and operations with a potential for draining the reactor vessel. SECONDARY CUNTAINMENT INTEGRITY is maintained when secondary containment vacuum is less than required for up to 1 hour solely due to Reactor Building ventilation system failure.

M,

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3/4.6.5 SECONDARY CONTAINMENT

SECONDARY CONTAINMENT INTEGRITY

LIMITING CONDITION FOR OPERATION

3.6.5.1 SECONDARY CONTAINMENT INTEGRITY shall be maintained.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, and *.

ACTION:

Without SECONDARY CONTAINMENT INTEGRITY:

- In OPERATIONAL CONDITION 1, 2, or 3, restore SECONDARY CONTAINMENT INTEGRITY within 4 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- In OPERATIONAL CONDITION *, suspend handling of irradiated fuel in the secondary containment, CORE ALTERATIONS and operations with a potential for draining the reactor vessel. The provisions of Specification 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

4.6.5.1 SECONDARY CONTAINMENT INTEGRITY shall be demonstrated by:

Verifying at least once per 24 hours that the pressure within the a. secondary containment is less than or equal to 0.25 inch of vacuum water gauge.#

Verifying at least once per 31 days that:

see ITS

Resvired Action A.2 and SR3.6.4.2.1

At least one door in each access to the secondary containment is closed. 2. All secondary containment penetrations not capable of being

closed by OPERABLE secondary containment automatic isolation dampers and required to be closed during accident conditions are closed by walves, blind flances, or/deactivated automatic dampers secured in position

agg bis be seg Required Action A. 2 Note and 5R-3,6,4,2,1 Note 1

5R3.6.4.2.1

Note 5

egg bloboses

SR 3.6.4.2.15 Resource Action A. 23

At least once per 18 months:

- Verifying that one standby gas treatment subsystem will draw down the secondary containment to greater than or equal to 0.25 inch of vacuum water gauge in less than or equal to 300 seconds, and
- 2. Operating one standby gas treatment subsystem for one hour and maintaining greater than or equal to 0.25 inch of vacuum water gauge in the secondary containment at a flow rate not exceeding 4000 cfm ± 10%.

When irradiated fuel is being handled in the secondary containment and during CORE ALTERATIONS and operations with a potential for draining the reactor vessel. #SECONDARY CONTAINMENT INTEGRITY is maintained when secondary containment vacuum is less than required for up to 1 hour solely due to Reactor Building ventilation system failure.

not locked, Sealed, W otherwise secured.

LI

47

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Xsee ITS 3,6,4,1>



SECONDARY CONTAINMENT AUTOMATIC ISOLATION DAMPERS

LIMITING	CONDITION FOR OPERATION
103.64.2	The secondary containment westilation system automatic isolation LA
dampers J	Shown in Table 3.6.5.2-1 shall be OPERABLE with solation times equal
to or le	ss bhan shown in Table 3.6.5.2-1.
APPLICAB	ILITY: OPERATIONAL CONDITIONS 1, 2, 3, and *
ACTION:	Proposed Note to Actions A.2
(With one	or more of the secondary containment Qualitation system automatic [LA.1]
1so latio	dampers Shown in Table .6.5.2-D inoperable:
a.	penetration that is open and within 8 hours, either:
Action <	1. Restore the inoperable damper to OPERABLE status, or
	 Isolate each affected penetration by use of at least one deactivated automatic damper secured in the isolation position, or
	3. Isolate each affected penetration by use of at least one closed manual valve or blind flange. (200 Proposed ACTION B) L.2
ACTION &C.	Otherwise, in OPERATIONAL CONDITION 1, 2, or 3, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
ACTION {c.	Otherwise, in OPERATIONAL CONDITION *, suspend handling of irradiated fuel in the secondary containment, CORE ALTERATIONS and operations with a potential for draining the reactor vessel. The provisions of Specification 3.0.3 are not applicable.
SURVEILLA	NCE REQUIREMENTS
4.6.5.2 damper (SR	Each secondary containment vent Nation system automatic isolation What in Table 5.5.2-D shall be demonstrated OPERABLE:
a.	Prior to returning the damper to service after maintenance, repair or replacement work is performed on the damper or its associated actuator, control or power circuit by cycling the damper through at least one complete cycle of full travel and verifying the specified isolation time.
SR3.6.4.2.3 b.	During COLD SHUTDOWN of REFUELING at least once per Remonths by verifying that on a containment isolation test signal each isolation damper actuates to its isolation position.
SR 3.6.4.2.2c.	By verifying the isolation time to be within the limit when tested pursuant to Specification 4.0.5 (even 42 days) A.I
vessel.	adiated fuel is being handled in the secondary containment and during ERATIONS and operations with a potential for draining the reactor
Applicab	ilita
LA SALLE	- UNIT 2 3/4 6-41

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A, ()

Page Sof 6

Z75 3.6.4.2

STANDBY GAS TREATMENT SYSTEM

LIMITING CONDITION FOR OPERATION

LC03.6.4.3

LAI

3.6.5.3 Two independent standby gas treatment subsystems shall be OPERABLE.

A.2

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, and *.

ACTION:

Action A a. With one standby gas treatment subsystem inoperable, restore the inoperable subsystem to OPERABLE status within 7 days, or:

ACTION 3 1. In OPERABLE CONDITION 1, 2, or 3, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

add proposed Required Action C.

ACTION C. 2. In OPERATIONAL CONDITION *, suspend handling of irradiated fuel in the secondary containment, CORE ALTERATIONS and operations with a potential for draining the reactor vessel. The provisions of Specification 3.0.3 are not applicable.

With both standby gas treatment subsystems inoperable in OPERATIONAL CONDITION *, suspend handling of irradiated fuel in the secondary containment, CORE ALTERATIONS and operations with a potential for draining the reactor vessel. The provisions of Specification 3.0.3 are not applicable.

add proposed Action D

A.3

SURVEILLANCE REQUIREMENTS

4.6.5.3 Each standby gas treatment subsystem shall be demonstrated OPERABLE:

SR 3.6.4.3.1 &

At least once per 31 days by initiating, from the control room, flow through the HEPA filters and charcoal adsorbers and verifying that the subsystem operates for at least 10 hours with the heaters OPERABLE.

LA.2

Applicability

*When irradiated fuel is being handled in the secondary containment and during CORE ALTERATIONS and operations with a potential for draining the reactor vessel.

#The normal or emergency power source may be inoperable in OPERATIONAL CONDITION

A.2

operating

SURVEILLANCE REQUIREMENTS (Continued)

- b. Perform required standby gas treatment filter testing in accordance with, and at the frequency specified by, the Ventilation Filter Testing Program.
 - c. Deleted.

- (24) LD.1
- /d. At least once per 18 months by:

Deleted.

- A. 2
- Verifying that the filter train starts and isolation dampers open on each of the following test signals:

SR 3. 3. 6. 2.4

Functions 12, 3 and 4

- a. Reactor Building exhaust plenum radiation high,
- b. Drywell pressure high,
- c. Reactor vessel water level low low, level 2, and
- d. Fuel pool vent exhaust radiation high.
- 3. Deleted.

(See ITT 36.4.3)

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. Amendment No. 110

SURVEILLANCE REQUIREMENTS (Continued)

SR 3.6.4.3.2b. Perform required standby gas treatment filter testing in accordance with, and at the frequency specified by, the Ventilation Filter Testing Program.

c. Deleted.

LD.I

- d. At least once per months by:
 - i. Deleted.

5/23.6, 4.3, 3 2. Verifying that the filter train starts and isolation dampers open on each of the following test signals:

- a. Reactor Building exhaust plenum radiation high,
- b. Drywell pressure high,
- c. Reactor vessel water level low low, level 2, and
- d. Fuel pool vent exhaust radiation high.
- 3. Deleted.



SURVEILLANCE REQUIREMENTS (Continued)

- e. Deleted.
- f. Deleted.

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Amendment No. 110

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3/4.6.6 PRIMARY CONTAINMENT ATMOSPHERE CONTROL

DRYWELL AND SUPPRESSION CHAMBER HYDROGEN RECOMBINER SYSTEMS

LIMITING CONDITION FOR OPERATION 1034.3.13.6.6.1 Two independent drywell and suppression chamber hydrogen recombiner LA.I systems shall be OPERABLE. APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2. add proposed Note to ACTION A **ACTION:** ACTION C With one drywell and/or suppression chamber hydrogen recombiner system inoperable, restore the inoperable system to OPERABLE status within 30 days or ACTION C be in at Teast HOT SHUTDOWN within the next 12 hours. L, 2 Code proposed Action B SURVEILLANCE REQUIREMENTS 4.6.6.1 Each drywell and suppression chamber hydrogen recombiner system shall be demonstrated OPERABLE: At least once per 92 days by cycling each flow control valve and recirculation valve through at least one complete cycle of full travel At least once per months by verifying, during a recombiner system functional test: SR3.6.3.1.1 b. That the heaters are OPERABLE by determining that the current in each phase differs by less than or equal to 5% from the other phases and is within 5% of the value observed in the original acceptance test, corrected for line voltage differences. LA.2 That the reaction chamber gas temperature increases to 1200 25°F within & hours. LD 1 At least once per (8) months by: Performing a CHANNEL CALIBRATION of all recombiner operating instrumentation and control circuits. Verifying the integrity of all heater electrical circuits by performing a resistance to ground test within 30 minutes) (following the above required functional test. The resistance to ground for any heater phase shall be greater than or equal to 100,000 ohms. <R36.3.1.2 2.

DRYWELL AND SUPPRESSION CHAMBER OXYGEN CONCENTRATION

LIMITING CONDITION FOR OPERATION

(co 3.6.3.2

3.6.6.2 The drywell and suppression chamber atomosphere oxygen concentration shall be less than 4% by volume.

APPLICABILITY: OPERATIONAL CONDITION 19, during the time period:

- A-2
- Within 24 hours after THERMAL POWER is greater than 15% of RATED THERMAL POWER, following startup, to
- b. Within 24 hours prior to reducing THERMAL POWER to less than 15% of RATED THERMAL POWER, preliminary to a scheduled reactor shutdown.

ACTION:

ACTIONA With the oxygen concentration in the drywell and/or suppression chamber exceeding the limit, restore the oxygen concentration to within the limit within 24 hours for be in at least STARTUP within the next 8 hours.

SURVEILLANCE REQUIREMENTS

SR3.6.3.1.6.6.2 The oxygen concentration in the drywell and suppression chamber shall the limit when it was after THERMAL POWER is be verified to be within the limit within 24 hours after IHERMAL POWER is greater than 15% of RATED THERMAL POWER and at least once per 7 days thereafter.

See Special Test Exception 3.10.5.

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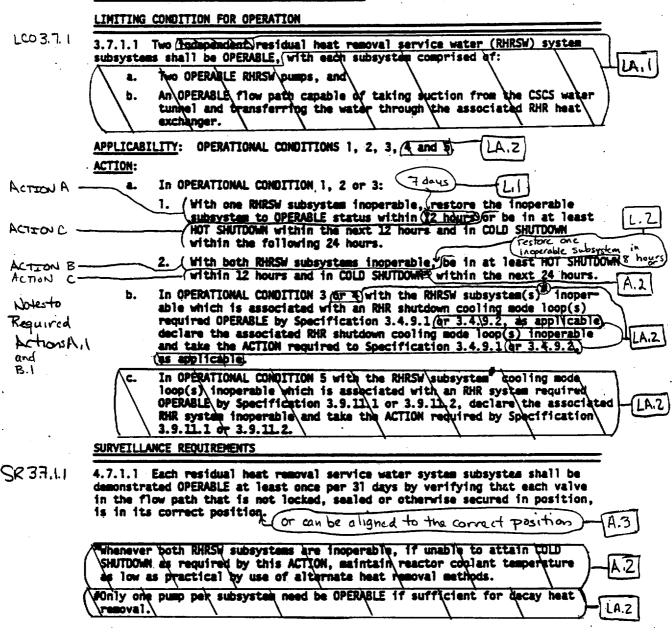
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3/4.7 PLANT SYSTEMS

3/4.7.1 CORE STANDBY COOLING SYSTEM-EQUIPMENT COOLING WATER SYSTEMS

RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM



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DIESEL GENERATOR COOLING WATER SYSTEM

LIMITING CONDITION FOR OPERATION

•	
LC0 3.7.2	3.7.1.2 The (Tydebendent)Unit 2 Division 1, 2 and 3 and the Unit 1 Division 2 diesel generator cooling water subsystems shall be OPERABLE with each subsystem LA.
	a. One OPERABLE diesel generator couling water pump, and
	b. An OPERABLE flow path capable of taking suction from the CSCS water tunnel and transferring cooling water to the associated diesel JLA, 2
·	APPLICABILITY: When the diese's generator is required to be OPERABLES
	ACTION: (Add proposed A.Z) ACTIONS Note) ACTIONS ACTION
Астери А	With one or more diesel generator cooling water subsystems inoperable, declare the associated diesel generator inoperable and take the ACTION required by
	Specifications 3.8.1.1 or 3.8.1.2, as applicable
	SURVEILLANCE REQUIREMENTS
	4.7.1.2 Each of the above required diesel generator cooling water subsystems shall be demonstrated OPERABLE:
SR 3.7.2.1	sealed, or otherwise secured in position, is in its correct position.
	b. At least once per (18) months by verifying that:
SR 3.7.2.2	1. Each pump starts automatically upon receipt of a start signal for the associated diesel generator, and actual or Simulated
	2. The (Myriston 1) pump starts automatically upon receipt of (2) [LA3]
	Ceach required LA3.
	(actual or simulated) [Li]

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	PLANT SYS		[A.1]	ITS 3.7.3
		HEAT SINK CONDITION FOR OPE	RATION	
LCO 3.7.3		The CSCS pond sha		
			AL CONDITIONS 1, 2, 3,	/
ACTIONA	ACTION: within 90	days or:	due to s	ediment deposition in excess of limit bottom elevation greater than limit
ACTION B	a.	In OPERATIONAL (within the next 24 hours.	CONDITION 1, 2, or 3, be 12 hours and in COLD SHU Add 2nd	in at least HOT SHUTDOWN TDOWN within the following parties of Carolities B
	4	the diesel games	CONDITION 4, 5, or *, dec rator cooling water syste by Specifications 3.7.1.	lare the RHRSW system and inoperable and take the LA.I and 3.7.1.2.
	SURVEILL	ANCE REQUIREMENTS		
	4.7.1.3 18 months	The CSCS pond sha s by determining t	all be determined OPERABL	E at least once per [LD.1]
SR 3.7.3.2	a.	intake flume or	osition in excess of 1.5 in the CSCS pond as dete sections compared to as-b	rmined by a series of 107
SR 3,7,3,	3 Ь.	The pond bottom	elevation is less than o	r equal to 686.5 feet.

When handling bradiated fuel in the secondary containment.

Add proposed

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SR 3.7.3.1

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ONTROL ROOM AND AUXILIARY ELECTRIC EQUIPMENT ROOM EMERGENCY

	FILTRATION SYSTEM
	LIMITING CONDITION FOR OPERATION
LCD 3.7.4	3.7.2 Two independent control room and auditary electric equipment room emergency filtration System trains shall be OPERABLE. A.2
	APPLICABILITY: (ANI OPERATIONAL CONDITIONS) and *.
	ACTION: MODES 1, 2, and 3 During CORE ALTERATIONS L. I
ACTEON	A Rel
ACTEON	During COLE within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
ACTION	OPERABLE emergency filtration system in the pressurization mode of Ada proposed
	Add proposed ACTIVID - A.3
ACTION	*CONDITION 4, 5 or *, suspend CORE ALTERATIONS, handling of irradiated fuel in
	the secondary containment and operations with a potential for draining the reactor
	vesse.

ACTION E SURVEILLANCE REQUIREMENTS

> 4.7.2 Each control room and auxiliary electric equipment room emergency filtration system train shall be demonstrated OPERABLE:

At least once per 31 days on a STAGGERED YEST BASIS

SR 37.4.1

NOTE TO

Operate each Control Room and Auxiliary Electric Equipment Room Emergency Filter System for greater than or equal to 10 continuous hours with the heaters operating, and

The provisions of Specification 3.0.3 are not applicable in Operational Condition *.

Cinitiate action to suspend A.4

SK 37.42

2. Manually initiating flow through the control room and auxiliary electric equipment room recirculation filters for at least 10 hours.

Applicability

*When irradiated fuel is being handled in the secondary containment. The normal or emergency power source may be inoperable in QPERATIONAL CONDITION 4, 5 or *

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SURVEILLANCE REQUIREMENTS (Continued)

- b. Perform required control room and auxiliary electric equipment room filter testing in accordance with, and at the frequency specified by, the Ventilation Filter Testing Program.
- c. Deleted.

(24) L D.1

SR 3,3,7,1,4d. At least once per (months by:

1. Deleted.

(Applicability change) [1.1]

(see ITS 3.7.4)

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b.



SURVEILLANCE REQUIREMENTS (Continued)

SR 3.7.4.3

- Perform required control room and auxiliary electric equipment room filter testing in accordance with, and at the frequency specified by, the Ventilation Filter Testing Program.
- c. Deleted.



SR 3.7.44

- d. At least once per months by:
- SR 3.7.45
- 1. Deleted.

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A.1

SURVEILLANCE REQUIREMENTS (Continued)

SR 3.3.7.1.4

[A.G]

Verifying that on each of the below pressurization mode actuation test signals, the emergency train automatically switches to the pressurization mode of operation. Manually initiate flow through the control room and auxiliary electric equipment room recirculation filters and then verify that the control room and auxiliary electric equipment rooms are maintained at a positive pressure of greater than or equal to 1/8 inch W.G. relative to the adjacent areas during emergency train operation at a flow rate less than or equal to 4000 cfm:

a) Outside air smoke detection, and

(See ITS 3.74)

b) Air intake radiation monitors.

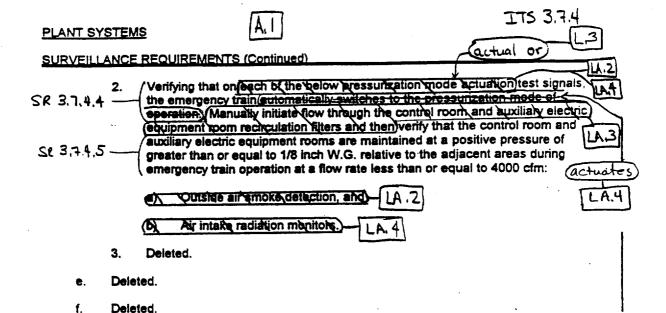
- 3. Deleted.
- e. Deleted.
- f. Deleted.

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3/4.7.3 REACTOR CORE ISOLATION COOLING SYSTEM

LIMITING CONDITION FOR OPERATION

ICO 3.5.33.7.3 The reactor core isolation cooling (RCIC) system shall be OPERABLE with any OPERABLE flow path dapable of taking suction from the suppression pool and transferring the water to the reactor pressure vessel.

<u>APPLICABILITY</u>: OPERATIONAL CONDITIONS 1, 2, and 3 with reactor steam dome pressure greater than 150 psig.

ACTION:

a./ With/a RCIC discharge line "keep filled" pressure/alarm instrumentation channel inoperable, perform Surveillance Requirement 4.7.3.a.l | L.Z at/least once per 24 hours/

b. (With the RCIC system inoperable, operation may continue provided the HPCS system is OPERABLE; restore the RCIC system to OPERABLE status within 14 days or be in at least HOT SHUTDOWN within the next 12 hours and reduce reactor steam dome pressure to less than or equal to 150 psig within the following 24 hours.

SURVEILLANCE REQUIREMENTS

4.7.3 The RCIC system shall be demonstrated OPERABLE:

(valve is filled with water,

- a. At least once per 31 days by:

 [A-4]

 SR 3.5.3.1

 1. Verifying by venting at the high point vents that the system isolation
 - 2. Performance of a CHANNEL FUNCTIONAL/TEST of the discharge line L.2
- SR 3.5.3.Z Verifying that each valve, manual, power operated or automatic in the flow path that is not locked, sealed or otherwise secured in position, is in its correct position.
 - 4. Verifying that the pump flow controller is in the correct [LA.2]
- b. (At least once per 92 days by verifying that the RCIC pump develops a flow of greater than or equal to 600 gpm in the test flow path with a system head corresponding to reactor vessel operating pressure when steam is being supplied to the turbine at 1000 + 20, 80 psig.*

SThe provisions of Specification 4.0.4 are not applicable provided the surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the tests.

A.2 (and flow)

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SURVEILLANCE REQUIREMENTS

At least once per months by: actual or Performing a system functional test which includes simulated SR 3.5.3.5 automatic actuation and weriffing that each automatic valve in [A.2]
the flow sath actuates to its correct position but may exclude
actual injection of coolant into the reactor vessel. SR 3.5.3.5 Verifying that the system is capable of providing a flow of greater than or equal to 600 gpm to the reactor vessel when steam is supplied to the turbine at a pressure of 150 15 psigusing the test flow paths?

Performing a CHANNEL CALIBRATION of the discharge line 7keep filled pressure a arm instrumentation and verifying the low pressure setpoint allowable value to be 229.0 psig. NOTE head corresponding to reactor pressure SR3.5.3.4 1.4 LA . 3 11.2 By demonstrating MCC-22ly and the 250-volt battery and charger OPERABLE: At least once per 7 days by verifying that: MCC-221y is energized, and has correct breaker alignment. indicated power availability from the charger and battery, and voltage on the panel with an overall voltage of greater than or equal to 250 volts.
The electrolyte level of each pilot cell is above the b) plates. The pilot cell specific gravity, corrected to 77°F, is greater than or equal to 1.200, and The overall battery voltage is greater than or equal to .c) d) 250 volts. At least once per 92 days by verifying that: The voltage of each connected battery is greater than or equal to 250 volts under float charge and has not decreased more than 12 volts from the value observed Moved to ITS during the original test, The specific gravity, corrected to 77°F, of each connected cell is greater than or equal to 1.195 and has not decreased more than 0.05 from the value observed during 3.8.4, 3.8,6, and 3.B.7 the previous test, and The electrolyte level of each connected cell is above the plates. 3. At least once per 18 months by verifying that: The battery shows no visual indication of physical damage or abnormal deterioration, and a) Battery terminal connections are clean, tight, free of b) corrosion and coated with anticorrosion material. A.3

The provisions of Specification 4.0.4 are not applicably provided the surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the tests.

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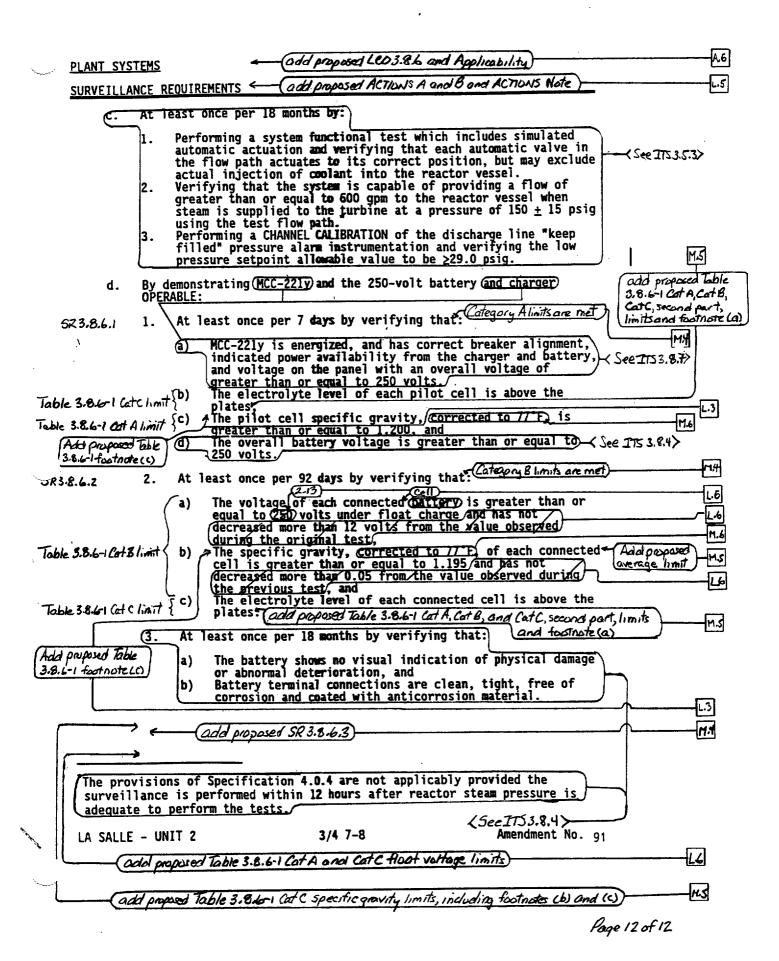
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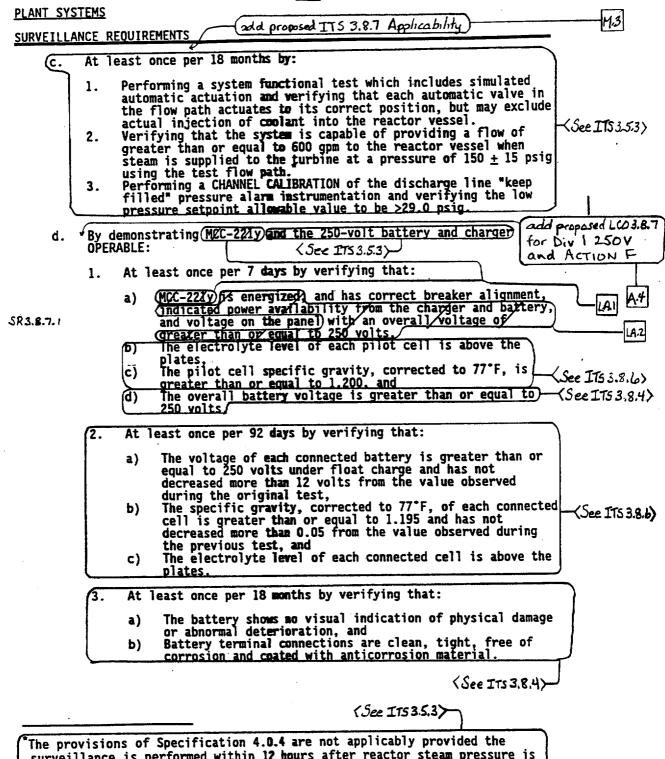
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add proposed LCO 3.8.4 and Applicability PLANT SYSTEMS SURVEILLANCE REQUIREMENTS At least once per 18 months by: Performing a system functional test which includes simulated automatic actuation and verifying that each automatic valve in the flow path actuates to its correct position, but may exclude actual injection of coolant into the reactor vessel. Verifying that the system is capable of providing a flow of greater than or equal to 600 gpm to the reactor vessel when steam is supplied to the turbine at a pressure of 150 \pm 15 psig 2. using the test flow path.

Performing a CHANNEL CALIBRATION of the discharge line "keep Add proposed IIS LCO 3.8.4 3. filled" pressure alarm instrumentation and verifying the low (DIVISION 1 250V pressure setpoint allowable value to be >29.0 psig. respirements) and Proposed ACTION C By demonstrating (MCC-221y and the) 250-volt battery and charger đ. A6 OPERABLE: At least once per 7 days by verifying that: MCC-22ly is energized, and has correct breaker alignment, indicated power availability from the charger and battery, Sec and voltage on the panel with an overall voltage of greater than or equal to 250 volts.

The electrolyte level of each pilot cell is above the SR 3.8.4.1 **b**) plates,
The pilot cell specific gravity, corrected to 77°F, is greater than or equal to 1.200, and
The overall battery voltage is greater than or equal to c) 280 volts. (on float charge) 256 **3**.5.3 At least once per 92 days by verifying that: The voltage of each connected battery is greater than or equal to 250 volts under float charge and has not a) decreased more than 12 volts from the value observed during the original test, b) The specific gravity, corrected to 77°F, of each connected cell is greater than or equal to 1.195 and has not decreased more than 0.05 from the value observed during the previous test, and The electrolyte level of each connected cell is above the c) plates. At least once per 18 months by verifying that: The battery shows no visual indication of physical damage or abnormal deterioration, and a) 5R3.843 b) Battery terminal connections are clean, tight free of SR 3.8.44 corrosion and coated with anticorrosion material. The provisions of Specification 4.0.4 are not applicably provided the surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the tests. LA SALLE - UNIT 2 3/4 7-8 Amendment No. 91 <5@IT535.37 add proposer SR 3.8.4.2. SR 3.8.45, SR3.8.4.6. 5R 3.8.4.7, and 5R 3.8.4.8





The provisions of Specification 4.0.4 are not applicably provided the surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the tests.

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34.7.4 SEALED SOURCE CONTAMINATION

RI

LIMITING CONDITION FOR OPERATION

3.7.4 Each sealed source containing radioactive material either in excess of 100 microcuries of beta and/or gamma emitting material or 5 microcuries of alpha emitting material shall be free of greater than or equal to 0.005 microcuries of removable contamination.

APPLICABILITY's At all times.

ACTION:

- a. With a sealed source having removable contamination in excess of the above limit, withdraw the sealed source from use and either:
 - 1. Decontaminate and repair the sealed source, or
 - 2. Dispose of the sealed source in accordance with Commission Regulations.
- b. The provisions of Specification 3.0.3 are not applicable.

SURVEIN ANCE REQUIREMENTS

- 4.7.4.1 <u>Kest Requirements</u> Each sealed source shall be tested for leakage and/or contamination by:
 - a. The licensee, or
 - Other persons specifically authorized by the Commission or an Agreement State.

The test method shall have a detection sensitivity of at least 0.005 microcuries per test sample.

- 4.7.4.2 <u>Test Frequencies</u> Each category of sealed sources, excluding startup sources and fission detectors previously subjected to core flux, shall be tested at the frequency described below.
 - a <u>Sources in use</u> At least once per six months for all sealed sources containing radioactive material:
 - With a half-life greater than 30 days, excluding Hydrogen 3, and
 - 2. In any form other than gas.

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SURVEY LLANCE REQUIREMENTS (Continued)

ources and fission detactors - Each sea

sealed startup source of days prior to being and following repair

t shall be pro Commission

3/4.7.7 AREA TEMPERATURE MONITORING

LIMITING BONDITION FOR OPERATION

3.7.7 The temperature of each area of Unit 1 and Unit 2 shown in Table 3.7.7-1 shall be maintained within the limits indicated in Table 3.7.7-1.

APPLICABILITY: Whenever the equipment in an affected area is required to be OPERABLE.

ABTION:

With one or more areas exceeding the temperature limit(s) shown in Table 3.7.7-1

- a. For more than 8 hours, in liqu of any Licensee Event Report, prepare and submit a Special Report to the Commission pursuant to Specification 6.6.C within the next 30 days providing a record of the amount by which and the cumulative time the temperature in the affected area exceeded its limit and an analysis to demonstrate the continued OPERABILITY of the affected equipment.
- b. By more than 30°F, in addition to the Special Report required above, within 4 hours either restore the area to within its temperature limit or declare the equipment in the affected area hoperable.

SURVEILLANCE REQUIREMENTS

4.7.7 The temperature in each of the above required areas shown in Table 3.7.7-1 shall be determined to be within its limit at least once per 24 hours.

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		(R.I)	
•		TABLE 3,7.7-1	
		AREA TEMPERATURE MONT	TORING
A.	<u>Unt</u>	AREA t 2 Area Temperature Monitoring	TEMPERATURE LIMST (*F)
	L	Control Room	50-104
	8.	Auxiliary Electric Equipment Room	50-104
1	3.	Diesel Generator Room	50-122
1	4.	Switchgear Room	50-104
	5.	HPCS, LPCS, RHR & RCIC Rooms	50-150
	6.	Primary Containment	
		a. Drywell	50-150
	•	b. Beneath Reactor Pressure Vessel	50-185
8.	Unit	I Area Temperature Monitoring Required	For Unit 2
(k .	Auxiliary Electric Equipment Room	50-104
	2.	Diesel Generator 1A Room	50-122
	3.	Division 1 and 2 Switchgear Rooms	50-104

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NANT SYSTEMS

3/4.7.8 STRUCTURAL INTEGRITY OF CLASS 1 STRUCTURES

1R.1

LIMITING CONDITION FOR OPERATION

3.7.8 The structural integrity of Class 1 structures shall be verified pursuant to the requirements of Specifications 4.7.8.1 and 4.7.8.2.

APPLICABILITY: At all times.

ACTION:

With the settlement of any Class 1 structure not verified to be within the allowable final settlement value as required, submit a Special Report in accordance with Specification 6.6.C:

- a. By telephone within 24 hours,
- b. Confirmed by telegraph, mailgram or facsimile transmission no later than the first working day following the event, and
- c. In writing within 14 days following the event, outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.

SURVEILLANCE REQUIREMENTS

- 4.7.8.1 The total settlement of each Class 1 structure and the differential settlement between Class 1 structures shall be determined to the nearest 8,01 foot by measurement and calculation:
 - a. At least once per 31 days:
 - Until observed settlement has stabilized, * and
 - Whenever previously stabilized settlement expeeds 0.01 foot since the previous reading.
 - b. At least once per 6 months.
- 4.7.8.2 A Special Report shall be prepared and submitted to the Commission at least once per 6 months until settlement of Class 1 structures has stabilized. The report shall include settlement and differential settlement plots versus time and a comparison of allowable and actual settlement.

*< 0.01 foot from previous reading.</p>

3/4.7.9 SNUBBERS

LIMITING CONDITION FOR OPERATION

3.7.9 All hydraulic and mechanical snubbers shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. OPERATIONAL CONDITIONS 4 and 5 for snubbers located on systems required OPERABLE to those OPERATIONAL CONDITIONS:

ACTION:

With one or more snubbers inoperable, on any system, within 72 hours replace or restore the inoperable snubber(s) to OPERABLE status and perform an engineering evaluation per Specification 4.7.9g. on the attached component or declare the attached system inoperable and follow the appropriate ACTION statement for that system.

SURVEIL MANCE REQUIREMENTS

4.7.9 Each snubber shall be demonstrated OPERABLE by performance of the following augmented inservice inspection program and the requirements of Specification 4.0.5.

a. <u>Inspection Types</u>

As used in this specification, "type of snubber" shall mean snubbers of the same design and manufacturer, irrespective of capacity.

b. <u>Visual Inspections</u>

Snubbers are categorized as inaccessible or accessible during reactor operation. Each of these categories (inaccessible and accessible) may be inspected independently according to the schedule determined by Table 4.7 9-1. The visual inspection interval for each type of snubber shall be determined based upon the criteria provided in Table 4.7.9-1 and the first inspection interval determined using this criteria shall be based upon the previous inspection interval as established by the requirements in effect before amendment 75

c. Visual Inspection Acceptance Criteria

Visual inspections shall verify that (1) the snubber has no visible indications of damage or impaired OPERARILITY, (2) attachments to the foundation or supporting structure are functional, and

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SURVEILLANCE REQUIREMENTS (Continued)

(3) fasteners for the attachment of the snubber to the component and to the snubber enchorage are functional. Snubbers which appear inoperable as a result of visual inspections shall be classified as unacceptable and may be reclassified acceptable for the purpose of establishing the next visual inspection interval, provided that (1) the cause of the rejection is clearly established and remedied for that particular snubber and for other snubbers irrespective of type that may be generically susceptible; and (2) the affected snubber is functionally tested in the as-found condition and determined OPERABLE per Specification 4.7.9f. All snubbers found connected to an inoperable common hydraulic fluid reservoir shall be counted as unacceptable for determining the next inspection interval. A review and evaluation shall be performed and documented to justify continued operation with an unacceptable snubber. If continued operation cannot be justified, the snubber shall be declared inoperable and the ACTION requirements shall be met.

d. <u>Iransient Event Inspection</u>

An inspection shall be performed of all hydralic and mechanical snubbers attached to sections of systems that have experienced unexpected, potentially damaging transients as determined from a review of operational data and a visual inspection of the systems within a months following such an event. In addition to satisfying the visual inspection acceptance criteria, freedom-of-motion of mechanical snubbers shall be varified using at least one of the following: (1) manually induced snubber movement; or (2) evaluation of in-place shubber piston setting; or (3) stroking the mechanical snubber through its full range of bravel.

<u>Functional Tests</u>

At least once per 18 months during shutdown, a representative sample of snubbers shall be tested using one of the following sample plans. The sample plan shall be selected prior to the test period and cannot be changed during the test period. The NRC Regional Administrator shall be notified in writing of the sample plan selected prior to the test period or the sample plan used in the prior test period shall be implemented:

- 1) At least 10% of the total of each type of snubber shall be functionally tested either in-place or in a bench test. For each snubber of a type that does not meet the functional test acceptance criteria of Specification 4.7.9f., an additional 10% of that type of snubber shall be functionally tested until no more failures are found or until all snubbers of that type have been functionally tested; or
- A representative sample of each type of snubber shall be functionally tested, in accordance with Figure 4.7-1. "C" is the

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SURVEILLANCE REQUIREMENTS (Continued)

L Functional Tests (Continued)

total number of snubbers of a type found not meeting the acceptance requirements of Specification 4.7.9f. The cumulative number of snubbers of a type tested is denoted by "N". At the end of each day's testing, the new values of "N" and "C" (previous day's total plus current day's increments) shall be plotted on Figure 4.7-1. If at any time the point plotted falls in the "Reject" region, all snubbers of that type may be functionally tested. If at any time the point plotted falls in the "Accept" region, testing of snubbers of that type may be terminated. When the point plotted lies in the "Continue Testing" region, additional snubbers of that type shall be tested until the point falls in the "Accept" region or the "Reject" region, or all the snubbers of that type have been tested. Testing equipment failure during functional testing may invalidate that day's testing and allow that day's testing to resume anew at a later time provided all snubbers tested with the failed equipment during the day of equipment failure are retested; or

An initial representative sample of 55 snubbers shall be functionally tested. For each snubber type which woes not meet the functional test acceptance criteria, another sample of at least one-half the size of the initial sample shall be tested until the total number tested is equal to the initial sample size multiplied by the factor, 1 + 6/2, where "C" is the number of snubbers found which do not meet the functional test acceptance criteria. The results from this sample plan shall be plotted using an "Accept" line which follows the equation N = 55(1 + C/2). Each snubber point should be plotted as soon as the snubber is takted. If the point plotted falls on or below the "Accept" line, testing of that type of snubber may be terminated. If the point plosted falls above the "Accept" line, testing must continue until the point falls in the "Accept" region or all the snubbers of that type have been tested.

The representative sample salected for the functional test sample plans shall be randomly selected from the snubbers of each type and reviewed before beginning the testing. The review shall ensure, as far as practicable, that they are representative of the various configurations, operating environments, range of size, and capacity of snubbers of each type. Snubbers placed in the same location as snubbers which failed the previous functional test shall be retested at the time of the next functional test but shall not be included in the sample plan. If during the functional testing, additional sampling is required due to failure of only one type of snubber, the functional test results shall be reviewed at that time to determine if additional samples should be limited to the type of snubber which has failed the functional testing.

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SURVEILLANCE REQUIREMENTS (Continued)

f. Functional Test Acceptance Criteria

The snubber functional test shall verify that: .

- 1) Activation (restraining action) is achieved within the specified range in both tension and compression.
- Snubber bleed, or release rate where required, is present in both tension and compression, within the specified range;
- 3) Where required, the force required to initiate or maintain motion of the snubber is within the specified range in both directions of travel; and
- 4) For snubbers specifically required not to displace under continuous load, the ability of the snubber to withstand load without displacement.

Testing methods may be used to measure parameters indirectly or parameters other than those specified if those results can be correlated to the specified parameters through established methods.

g. <u>Fonctional Test Failure Analysis</u>

An engineering evaluation shall be made of each reflure to meet the functional test acceptance criteria to determine the cause of the failure. The results of this evaluation shall be used, if applicable, in selecting snubbers to be tested in an effort to determine the OPERABILITY of other snubbers irrespective of type which may be subject to the same failure mode.

For the snubbers found inoperable, an engineering evaluation shall be performed on the components to which the inoperable snubbers are attached. The purpose of this engineering evaluation shall be to determine if the components to which the inoperable snubbers are attached were adversely affected by the inoperability of the snubbers in order to ensure that the component remains capable of meeting the designed service.

If any snubber selected for functional testing either fails to lock up or fails to move, i.e., frozen in place, the cause will be evaluated and, if caused by manufacturer or design deficiency, all snubbers of the same type subject to the same defect shall be functionally bested. This testing requirement shall be independent of the requirements stated in Specification 4.7.9e. for snubbers not meeting the functional test acceptance criteria.

h. Functional Testing of Repaired and Replaced Snubbers

Snubbers which fail the visual inspection or the functional test acceptance criteria shall be repaired or replaced. Replacement snubbers and snubbers which have repairs which might affect the functional test results shall be tested to meet the functional test

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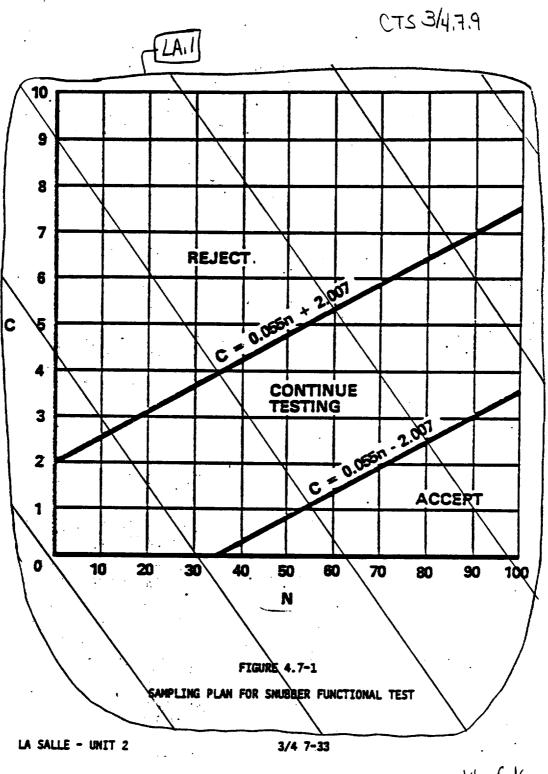
SURVEILLANCE REQUIREMENTS (Bontinued)

h. Functional Testing of Repaired and Replaced Snubbers (Continued)

critaria before installation in the unit. Mechanical snubbers shall have but the acceptance criteria subsequent to their most recent service, and the freedom-of-motion test must have been performed within 12 months before being installed in the unit.

1. Snubber Service Life Program

The service life of hydraulic and mechanical snubbers shall be monitored to ensure that the service life is not exceeded between surveillance inspections. The maximum expected service life for various seals, springs, and other critical parts shall be determined and established based on engineering information and shall be extended or shortened based on monitored test results and failbre history. Critical parts shall be replaced so that the maximum service life will not be exceeded during a period when the snubber is required to be OPERABLE. The parts replacements shall be documented and the documentation shall be retained in accordance with Specification 6.58.



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1			C15 74.79	
LAIL	TABLE	.7.9-1	•	
	SNUBBER VISUAL IN	SPECITION INTERVAL		
	MIMO	ER OF UNACCEPTABLE	children /	
	1			
Population or Sategory	Column A Extend Interval	Column B Repeat Interval	Column C	
(Notes 1 and 2)	(Notes 3 and 6)	(Notes 4 and 6)	Reduce Interval (Notes 5 and 6)	
The state of the s	0	0	1	
20				
80	0	0	2	
100	0	1	4	
150	0	3	8	
200	2		/3	
300	5	12	25	
	\	12	25	
430	8	18	36	
500	12	24	48	
750	20	40	78	
1000 or greater	29	56	109	
Note 1: The next visual inspection interval for a snubber population or category size shall be determined based upon the previous inspection interval and the number of unacceptable snubbers found during that interval. Snubbers may be categorized, based upon their accessibility during nower operation, as accessible or inaccessible. Nese categories may be examined separately or jointly. However, tha licensee must make and document that decision before any inspection and shall use that decision as the basis upon which to determine the next inspection interval for that category. Note 2: Interpolation between population or category sizes and the number of unacceptable snubbers is permissible. Use the next lower integer for the value of the limit for Columns A, B, or C if that integer includes a fractional value of unacceptable snubbers as determined by interpolation.				
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TABLE 4.7.9-1 SNUBBER VISUAL INSPECTION INTERVAL (Continued)

Note 3: If the number of unacceptable snubbers is equal to ar less than the number in Column A, the next inspection interval may be twice the previous interval but not greater than 48 months.

Note 4: If the number of unacceptable snubbers is equal to or less than the number in Solumn B but greater than the number in Column A, the next inspection interval shall be the same as the previous interval.

Note 5: If the number of unacceptable snubbers is equal to or greater than the number in Column C, the next inspection interval shall be two-thirds of the previous interval. However, if the number of unacceptable snubbers is less than the number in Column C but greater than the number in Column B, the next interval shall be reduced proportionally by interpolation, that is, the previous interval shall be reduced by a factor that is one-third of the ratio of the difference between the number of unacceptable snubbers found during the previous interval and the number in Column B to the difference in the numbers in Columns B and C.

The provisions of Specification 4.0.2 are applicable for all inspection intervals up to and including 48 months.

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Note 6:

2/4	7	10	MATN	THERTHE	RYPASS	SYSTEM

TAIR

	3/4.7.10 MAIN TURBINE BYPASS SYSTEM
	LIMITING CONDITION FOR OPERATION
F, F, E 021	3.7.10 The main turbine bypass system shall be OPERABLE. Add Proposed 2nd Part of LCO 3.7.7
	APPLICABILITY: OPERATIONAL CONDITION 1, when THERMAL POWER is greater than A.2 or equal to 25% of RATED THERMAL POWER. (A.3)
	ACTION:
	With the main turbine bypass system inoperable:
	1. If at least four bypass valves are capable of accepting steam flow per Surveillance 4.7.10.a:
ACTEON A	a) Within 2 hours, either:
	1) Restore the system to OPERABLE status, or
Lco 3.7.7	2) Increase the MINIMUM CRITICAL POWER RATIO (MCPR) Limiting Condition for Operation (LCO) to the main turbine bypass inoperable value per Specification 3.2.3.
АСТЕОН В	b) Otherwise, reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within the next 4 hours.
ACTION A	2. If less than four bypass valves are capable of accepting steam flow per Surveillance 4.7.10.a: Testore the System to OPERABLE Status or A.4
LCO 3.7.7 -	a) Within 2 hours increase the MCPR LCO to the main turbine bypass inoperable value per Specification 3.2.3, and
	b) Within the next 12 hours restore the system to OPERABLE
ACTEON B	c) Otherwise, reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within the next 4 hours.
	SURVEILLANCE REQUIREMENTS
	4.7.10 The main turbine bypass system shall be demonstrated OPERABLE at least once per:
SR 37711	a. 7 days by cycling each turbine bypass valve through at least one complete cycle of full travel.
	b. 18 months by: 24 LOII

Performing a system functional test which includes simulated automatic actuation and verifying that each automatic valve actuates to its correct position. 1. SR 37.7.2

SR 37.7.3 Demonstrating TURBINE BYPASS SYSTEM RESPONSE TIME to be less than on equal to 200 mill seconds 2. (is within limits)

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A.I

3/4.8 ELECTRICAL POWER SYSTEMS

3/4.8.1 A.C. SOURCES

A.C. SOURCES - OPERATING

LIMITING CONDITION FOR OPERATION

L(03,8.3.8.1.1 OPERABLE	As a minimum, the follow:	ving A.C. electrical p	ower sources shall be
LCO 3.8.1.a	Two physically independent network and the onsite	lent) circuits between	the offsite transmission system, and
LCO 3.8.1.b b.	Separate and independen	t diesel generators*(0, AA, 2A and 2B with:
LCO 3.8.1.C	(1. For diesel generat	or O, 1A and 2A:	
SR 3.8.1.4	a) A separate da 250 gallons o	y fuel tank containing f fuel.	a minimum of A.2
	b) A separate fu 31,000 gallon	el storage system con s of fuel.	aining a minimum of
SR 3.8.1.4 {-	2. For diesel generat	minimum of 29,750 gall	
•	3. A separate fuel tr	ansfer pump.	550 gallons of fuel
<u>APPLICAB</u>		TIONS 1, 2, and 3.	A.4
ACTION:	Applicability Notes		7days L.18 L.19
ACTION A	With one offsite circuisources inoperable, dem A.C. sources by perform within 1 hour and at least offsite circuit to OPER (HOT SHUTDOWN within the the following 24 hours.	onstrate the OPERABILI ing Surveillance Requi ast once per 8 hours t ABLE status within (72	rement 4.8.1.1.1.a hereafter. Restore the hours or be in at least
ACTION (b.	With either the 0 or 2A OPERABILITY of the above Surveillance Requirement per 8 hours thereafter. due to any cause other independently testable of testing, demonstrate the	e required A.C. offsit t 4.8.1.1.1.a within 1 If the diesel genera than an inoperable sup component, or preplann	erable, demonstrate the e sources by performing hour and at least once tor became inoperable port system, an ed maintenance or
*See page	3/4 8-1(8).)		[A.5]
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3/4.8 ELECTRICAL POWER SYSTEMS 3/4.8.1 A.C. SOURCES A.I A.C. SOURCES - OPERATING T.TS 3.8.3 LIMITING CONDITION FOR OPERATION 3.8.1.1 As a minimum, the following A.C. electrical power sources shall be A.2 OPERABLE: Two physically independent circuits between the offsite transmission a. network and the onsite Class IE distribution system, and Separate and independent diesel generators* 0, 1A, 2A and 2B with: For diesel generator 0, 1A and 2A: A separate day fuel tank containing a minimum of 250 gallons of fuel. A separate fuel storage system containing a minimum of 31,000 gallons of fuel. A.3 SR 3.8.3.1 For diesel generator 2B, a separate fuel storage tank and a day tank containing a minimum of 29,750 gallons of fuel. A separate fuel transfer pump.) A,2 (APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. **ACTION:** With one offsite circuit of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. sources by performing Surveillance Requirement 4.8.1.1.1.a within 1 hour and at least once per 8 hours thereafter. Restore the offsite circuit to OPERABLE status within 72 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours. With either the O or 2A diesel generator inoperable, demonstrate the OPERABILITY of the above required A.C. offsite sources by performing Surveillance Requirement 4.8.1.1.1.a within 1 hour and at least once per 8 hours thereafter. If the diesel generator became inoperable due to any cause other than an inoperable support system, an independently testable component, or preplanned maintenance or testing, demonstrate the OPERABILITY of the remaining OPERABLE

*See page 3/4 8-1(a).

add proposed ACTIONS A, B, C, D, and E and ACTIONS Note

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(See ITS 3.8.1)

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ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

Condition B

*For the purposes of completing maintenance, modification, and/or technical specification surveillance requirements, on the diesel generator and its support systems during a refuel outage, as part of pre-planned maintenance, modifications, and/or the surveillance program, the requirements of action statement b are modified to:

1. Eliminate the requirement for performing technical specification surveillance requirements 4.8.1.1.1.a on each operable AC source, immediately and once per 8 hours thereafter, when the 0 diesel generator is declared inoperable.

Division 1

Required {2. Allow an additional 96 hours in excess of the 72 hours allowed in Action 8.4 action statement b for the 0 diesel generator to be inoperable.

Condition C

Provided that the following conditions are met:

(B.4 200 Completion Time)

Note to SA. Unit 1 is in operational condition 4 or 5 or defueled prior to taking the 0 diesel generator out of service.

Required
Action B.1

Parameter of the second second

Surveillance requirements 4.8.1.1.1a and 4.8.1.1.2a.4 are successfully/completed, for the offsite power sources and the 1A and A diesel generators, within 48 hours prior to removal of the 0 diesel generator from service.

. No maintenance is performed on the offsite circuits or the tA or 2A L.2 diesel generators, while the 0 diesel generator is inoperable.

· Required Action B. I 2ND Completion Time

D. Technical specification requirement 4.8.1.1.la is performed daily, while the O diesel generator is inoperable.

Required Action B.1 The control circuit for the unit cross-tie circuit breakers between buses 1421 and 2421 are temporarily modified to allow the breakers to be closed with a diesel generator feeding the bus, while the diesel generator is imperable.

Verify the unit crossfie breakers between the unit and opposite unit Division 2 4.16 KV emergency buses are capable of being closed with a DG powering one of the buses.

The provisions of technical specification 3.0.4 are not applicable.

11.5

L.2

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A.I

ELECTRICAL POWER SYSTEMS

LIMITING	CONDITION FOR OPERAT	ION (Continued)		
	(Continued)	All proposed Requi	Time	{L.1]
ACTIONS -	diesel generators, Requirement 4.8.1.1 any potential common is demonstrated. Re within 72 hours or hours and in COLD S	n mode failure in mode failure in estore the diese be in at least I	for the remaining of generator to OPI OT SHUTDOWN within the following 24 ho	liesel generator RABLE status 1 the next 12 Durs. A.7
Condition E	- Sources moherance	or 2A of the abo Hemonstrate the	ove required A.C. 6 OPERABILITY of th	electrical power in the remaining
Recuired Actions Avanta 1	within 1 hour and at	t least once per came inoperable	due to any cause of	ther than an
Required Action (.3.)	inoperable support	system, an inder	endently testable/ demonstrate/the OF	component, or PERABILITY of
Reprices	Surveillance Require absence of any potentials of the self generator is	ement 4.8.1.1.2. httal common mod demonstrated.	e failure for the Restore at least o	remaining one of the
Actions E. 1 Actions ANDEZ ACTION G	inoperable A.C. sour	rces to OPERABLE NN within the ne 24 hours Res	<u>xt 12 hours and in</u> tore at least two	COLD SHUTDOWN
A. 3 and C. 4 Action G.	hours from the time within the next 12	of initial loss	Or be in at least D SHUTDOWN within	HOT SHUTDOWN
· (d.	<pre>24 nours.</pre>	or 2B of the abo	we required A.C. e	Tectrical power Completion
	sources inoperable, sources by performing hour and at least or	ng Surveillance nce per 8 hours	Requirement 4.8.1. thereafter. If the	e diesel
iction C	generator became inc inoperable support s preplanned maintenar the remaining OPERAB	system, an indep ace or testing, BLE diesel gener	endently testable demonstrate the OP ators, separately,	component, or ERABILITY of by performing (2.3)
	Surveillance Require absence of any poter	ement 4.8.1.1.2. Itial common mod Idemonstrated./	a.4 within 24 hour e failure for the Restore diesel gen	remaining erator 28 to
Applicability Note 1	OPERABLE status with	the ACTION requ	red by specificat	401 3.3.4.
\ diesel	st is required to be e generator is restored re not applicable.	ompleted regard to OPERABILITY.	tess of when the i The provisions o	noperable f Specification
	- UNIT 2	3/4 8-2	Add proposed Required A	mendment No. 94
			Action C.4 200 Comp	Page 170f 28
				1 my C 1 1 =

A.1

ELECTRICAL POWER SYSTEMS M. 6 LIMITING CONDITION FOR OPERATION (Continued) Add proposed Required Action G. Z ACTION (Continued) ACTION D e. With both of the above required offsite circuits inoperable, restore at least one offsite circuit to OPERABLE status within 24 hours, for be in at least HOT SHUTDOWN within the next 12 hours. With only one offsite circuit restored to OPERABLE status, restore at least two offsite circuits to OPERABLE status within (2 hours) from the time of initial loss or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours. ACTION G -With diesel generators 0 and 2A of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. sources by performing Surveillance Requirement 4.8.1.1.1.a within 1 hour and at least once per 8 hours thereafter, and Surveillance Requirement 4.8.1.1.2.a.4 for the 2B and 1A diesel generators, separately, within 8 hours. Restore at least one of the inoperable diesel generators 0 or 2A to OPERABLE status within 2 ACTIONS BOND C. ACTION F. hours, or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours Restore both diesel generators 0 and 2A to OPERABLE status within 72 hours from the time of initial lass or be in at least HOT SHUTDOWN within the next ACTION G ACTIONS BOOK C. 12 hours and in COLD SHUTDOWN within the following 24 hours. With diesel generator 1A of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. sources by performing Surveillance Requirement 4.8.1.1.1.a within 1 hour and at least once per 8 hours thereafter. If the 1A m.7 ACTION diesel generator became inoperable due to any cause other than an inoperable support system, an independently testable component, or preplanned maintenance or testing, demonstrate the OPERABILITY of the A diesel generator by performing Surveillance Requirement 4.8.1.1.2.a.4 within 24 hours, unless the absence of any potential OPERABLE common mode failure for the remaining diesel generator is demonstrated. Restore the inoperable diesel generator 1A to OPERABLE status within 72 hours or declare standby gas treatment system subsystem A, Unit 1 drywell and suppression chamber hydrogen Applicabili recombiner system, and control room and auxiliary electric equipment room emergency filtration system train A inoperable, and take the ACTION required by specifications 3.5.5.3, 3.6.6.1, and 3.7.2. Continued performance of Surveillance Requirement 4.8.1.11.a is not Note 2 associated required required provided the above systems are declared inoperable and the action of their respective specifications is taken. A.4 equipment) LA.3 *This test is required to be completed regardless of when the inoperable diesel generator is restored to OPERABILITY. The provisions of Specification 3.0.2 are not applicable.

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M.B

14.9

[A.1]

ELECTRICAL POWER SYSTEMS

LIMITING CONDITIONS FOR OPERATION (Continued)

ACTION (Continued)

(h. With one offsite circuit of the above required A.C. electrical power sources and diesel generator 28 inoperable, apply the requirements)

(of ACTION a and d specified above)

Action F

With either diesel generators 0 or 2A inoperable and diesel generator 2B inoperable, apply the requirements of ACTION b and d specified above.

Actions Aand C . With one offsite circuit of the above required A.C. electrical power sources and diesel generator 1A inoperable, apply the requirements of ACTION a and g specified above.

Action C

k. With diesel generator 28 and diesel generator 1A inoperable, apply the requirements of ACTION d and g specified above.

Action C

 With diesel generator 0 and diesel generator 1A inoperable, apply the requirements of ACTION b and g specified above.

Add proposed 2 Condition of ACTION F) [L.5]

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A.1 Add proposed Surveillance Table ELECTRICAL POWER SYSTEMS Notes land 2 SURVEILLANCE REQUIREMENTS 4.8.1.1.1 Each of the above required independent circuits between the offsite transmission network and the onsite Class 1E distribution system shall be: 1.D.I Determined OPERABLE at least once per 7 days by verifying correct SR 3.8.1.1 breaker alignments and indicated power availability, and Demonstrated OPERABLE at least once per (B) months during shutdown by manually transferring unit power supply from the normal circuit to the alternate circuit. 4.8.1.1.2 Each of the above required diesel generators shall be demonstrated **OPERABLE:** At least once per 31 days on a STAGGERED TEST BASTS by: Movedto Verifying the fuel level in the day fuel tank. ITS 3.8.3 SR 3.8.1.4 -(1. A.3 Verifying the fuel level in the fuel storage tank Verifying the fuel transfer pump starts and transfers fuel from SR 3.8.1.6 } the storage system to the day fuel tank conce per 92days Achieves a generator voltage of 2440 V a frequency 258.942 [A.14] Verifying the diesel starts from ambient condition and seconds . The generator voltage and frequency shall be 4160 +150 volts and 60 +1.2 Hz within 13 seconds** after the SR 3.8.1.7 Addproposed 5R3.81.2 Start signer. Acheves a steady state SR 3.8.1.7 Note 2 5. Verifying the diesel generator is synchronized, and then loaded to 2400 kW to 2600 kW in accordance with the SR 3.8.1.3 manufacturer's recommendations, and operates with this load for \$ 523.8.1.3 at least 60 minutes. (Add proposed SR 3.8.1. 3 Notes 3ad 4 m.9 A.U All planned diesel generator starts performed for the purpose of meeting SR3.81.2 Note 14 these surveillance requirements may be preceded by an engine prelube SR 3.8.1.7 period as recommended by the manufacturer Surveillance testing to verify the diesel generator start (13 second) time from ambient conditions shall be performed at least once per 184 days. All Note 523.8.1.7 Frequency other engine starts performed for the purpose of meeting these surveillance requirements may be conducted in accordance with Warmup and loading 523.8.1.2 procedures, as recommended by the manufacturer, in order to minimize Notel mechanical stress and wear on the diesel generator eaused by fast starting of the diesel generator. 5R3.81.3 Transients, outside of this load band, do not invalidate the surveillance Note 2 tests. 3/4 8-3 Amendment No. 94 LA SALLE - UNIT 2

SURVEILLANCE REQUIREMENTS

4.8.1.1.1 Each of the above required independent circuits between the offsite transmission network and the onsite Class 1E distribution system shall be:

- Determined OPERABLE at least once per 7 days by verifying correct breaker alignments and indicated power availability, and
- b. Demonstrated OPERABLE at least once per 18 months during shutdown by manually transferring unit power supply from the normal circuit to the alternate circuit.

4.8.1.1.2 Each of the above required diesel generators shall be demonstrated OPERABLE:

a. At least once per 31 days on a STAGRERED TEST BASIS by:

 $\mathfrak{IR3.8.3.1}$ (1. Verifying the fuel level in the day fuel tank.)

SR3.8.3.1 2. Verifying the fuel level in the fuel storage tank.

- Verifying the fuel transfer pump starts and transfers fuel from the storage system to the day fuel tank.
- 4. Verifying the diesel starts from ambient condition and accelerates to 900 rpm + 5%, -2% in less than or equal to 13 seconds**. The generator voltage and frequency shall be 4160 ±150 volts and 60 + 3.0, -1.2 Hz within 13 seconds** after the start signal.
- 5. Verifying the diesel generator is synchronized, and then loaded to 2400 kW to 2600 kW in accordance with the manufacturer's recommendations, and operates with this load for at least 60 minutes.

*All planned diesel generator starts performed for the purpose of meeting these surveillance requirements may be preceded by an engine prelube period, as recommended by the manufacturer.

Transients, outside of this load band, do not invalidate the surveillance tests.

LA SALLE - UNIT 2

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(See ITS3.8,1)

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[&]quot;Surveillance testing to verify the diesel generator start (13 second) time from ambient conditions shall be performed at least once per 184 days. All other engine starts performed for the purpose of meeting these surveillance requirements may be conducted in accordance with warmup and loading procedures, as recommended by the manufacturer, in order to minimize mechanical stress and wear on the diesel generator caused by fast starting of the diesel generator.

ELECTRICAL POWER SYSTEMS

SURVEILLANCE	REQUIREMENTS
(5.	Verifying the diesel generator is aligned to provide standby (2.10) power to the associated emergency busses.
Moved to ITS 3.8.3/ (7.	Verifying the pressure in required diesel generator air start (A.3) receivers to be greater than or equal to 200 psig.
3k3.8(3 } wh	least once per 31 days and after each operation of the diesel ere the period of operation was greater than or equal to 1 hour by ecking for and removing accumulated water from the day fuel tanks. A3
c. By	sampling and analyzing stored and new fuel oil in accordance with e following:
Moved to ITS Section 5.5	At least once per 92 days, and for new fuel oil prior to addition to the storage tanks, that a sample obtained and tested in accordance with the applicable ASTM Standards has:
	a) A water and sediment content within applicable ASTM limits.
l	b) A kinematic viscosity at 40°C within applicable ASTM limits.
2.	At least every 31 days, and for new fuel oil prior to addition to the storage tanks, that a sample obtained in accordance with the applicable ASTM Standard has a total particulate contamination of less than 10 mg/l when tested in accordance with the applicable ASTM Standard.
d. At	least once per (18) months during shutdown by: [L.6]
1.	(Not Used). (145 associated single langest post-accident load) (A.12)
SR 3.8.1.9	Verifying the diesel generator capability to reject a load of greater than or equal to 1190 kW for diesel generator 0, greater than or equal to 638 kW for diesel generators 1A and 2A, and greater than or equal to 2421 kW for diesel generator 2B while maintaining engine speed less than or equal to 75% of the difference between nominal speed and the overspeed trip setpoint (A.II or 15% above nominal, whichever is less. Add proposed SR 3.8.1.9 Note
SR 3.8.1.10 {3.	Verifying the diesel generator capability to reject a load of 2600 kW without tripping. The generator voltage shall not exceed 5000 volts during and following the load rejection.
SR 3.8.1.11 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Simulating a loss of offsite power* by itself, and:
÷	
these surve	diesel generator starts performed for the purpose of meeting illance requirements may be preceded by an engine prelube period,

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SURVEILLANCE REQUIREMENTS

- Verifying the diesel generator is aligned to provide standby power to the associated emergency busses.
- SR3.8.3.3 7. Verifying the pressure in required diesel generator air start receivers to be greater than or equal to 200 psig.

Gdd proposed SR3.8.3.2

b. At least once per 31 days and after each operation of the diesel where the period of operation was greater than or equal to 1 hour by checking for and removing accumulated water from the day fuel tanks.

A.4

moved to

ITS Section 5.5

A4

- c. By sampling and analyzing stored and new fuel oil in accordance with the following:
 - At least once per 92 days, and for new fuel oil prior to addition to the storage tanks, that a sample obtained and tested in accordance with the applicable ASTM Standards has:
 - a) A water and sediment content within applicable ASTM limits.
 - b) A kinematic viscosity at 40°C within applicable ASTM limits.
 - At least every 31 days, and for new fuel oil prior to addition to the storage tanks, that a sample obtained in accordance with the applicable ASTM Standard has a total particulate contamination of less than 10 mg/l when tested in accordance with the applicable ASTM Standard.
- . At least once per 18 months during shutdown by:
 - (Not Used).
 - 2. Verifying the diesel generator capability to reject a load of greater than or equal to 1190 kW for diesel generator 0, greater than or equal to 638 kW for diesel generators 1A and 2A, and greater than or equal to 2421 kW for diesel generator 2B while maintaining engine speed less than or equal to 75% of the difference between nominal speed and the overspeed trip setpoint or 15% above nominal, whichever is less.
 - 3. Verifying the diesel generator capability* to reject a load of 2600 kW without tripping. The generator voltage shall not exceed 5000 volts during and following the load rejection.
 - 4. Simulating a loss of offsite power* by itself, and:

*All planned diesel generator starts performed for the purpose of meeting these surveillance requirements may be preceded by an engine prelube period, as recommended by the manufacturer.

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(See ITS 3.B.1)

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Proposes ITS 5.5.10

SURVEILLANCE REQUIREMENTS

 Verifying the diesel generator is aligned to provide standby power to the associated emergency busses.

- 7. Verifying the pressure in required diesel generator air start receivers to be greater than or equal to 200 psig.
- At least once per 31 days and after each operation of the diesel where the period of operation was greater than or equal to 1 hour by checking for and removing accumulated water from the day fuel tanks.

5.5.10, a, 6, c.

By sampling and analyzing stored and new fuel oil in accordance with the following:

TL.I

5.5.10.a

 At least once per 92 days, and for new fuel oil prior to addition to the storage tanks, that a sample obtained and tested in accordance with the applicable ASTM Standards has:

M.2

add proposed ITS5.5.10.6.1

a) A water and sediment content within applicable ASTM limits.

b) A kinematic viscosity at 40°C within applicable ASTM limits.

or a clear and bright appearance with proper color

2. At least every 31 days, and for new fuel oil prior to addition to the storage tanks) that a sample obtained in accordance with the applicable ASTM Standard has a total particulate contamination of less than 10 mg/l when tested in accordance with the applicable ASTM Standard.

d. At least once per 18 months during shutdown by:

1. (Not Used).

2. Verifying the diesel generator capability to reject a load of greater than or equal to 1190 kW for diesel generator 0, greater than or equal to 638 kW for diesel generators 1A and 2A, and greater than or equal to 2421 kW for diesel generator 2B while maintaining engine speed less than or equal to 75% of the difference between nominal speed and the overspeed trip setpoint or 15% above nominal, whichever is less.

See ITS 3.8.1

- 3. Verifying the diesel generator capability* to reject a load of 2600 kW without tripping. The generator voltage shall not exceed 5000 volts during and following the load rejection.
- 4. Simulating a loss of offsite power* by itself, and:

The provisions of SR3.0.2 and SR3.03 are applicable to the Diesel Fuel Oil Testing Program testing frequencies.

A.T

*All planned diesel generator starts performed for the purpose of meeting these surveillance requirements may be preceded by an engine prelube period, as recommended by the manufacturer.

\3.8.1 \ \3.8.1 \

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Amendment No. 94

SURVEILLANCE REQUIREMENTS (Continued)

- 5R 3.8. (1) a) For Divisions 1 and 2 and for Unit 1 Division 2:
 - 1) Verifying de-energization of the emergency busses and load shedding from the emergency busses.
 - Verifying the diesel generator starts on the autostart signal, energizes the emergency busses with permanently connected loads within 13 seconds, energizes the auto-connected loads and operates for greater than or equal to 5 minutes while its generator is so loaded. After energization, the steady-state voltage and frequency of the emergency busses shall be maintained at 4160 ± 150 volts and 60 ± 1.2 Hz during this test.
 - b) For Division 3:
 - 1) Verifying de-energization of the emergency bus.
 - verifying the diesel generator starts on the autostart signal, energizes the emergency bus with its
 loads within 13 seconds and operates for greater than
 or equal to 5 minutes while its generator is so
 loaded. After energization, the steady-state voltage
 and frequency of the emergency bus shall be
 maintained at 4160 ± 150 volts and 60 ± 1.2 Hz during
 this test.

SR 3.8.1.12

Verifying that on an ECCS actuation test signal, without loss of offsite power, diesel generators 0, 2A, and 2B start on the auto-start signal and operate on standby for greater than or equal to 5 minutes. The generator voltage and frequency shall be 4160 (150 -150 volts and 60 (150), -1.2 Hz within 13 seconds after the auto-start signal; the steady-state generator voltage and frequency shall be maintained within these limits during this test. (4160 ± 150 and 60 ± 1.2)

SR 3.8.(.19 6. Simulating a loss of offsite power in conjunction with an ECCS actuation test signal,* and:

a) For Divisions 1 and 2:

1) Verifying de-energization of the emergency busses and load shedding from the emergency busses.

Actual or

All planned diesel generator starts performed for the purpose of meeting these surveillance requirements may be preceded by an engine prelube period, Note

LA SALLE - UNIT 2

3/4 8-5

Amendment No. 81

SURVEILLANCE REQUIREMENTS (Continued)

SR3.81.19

Verifying the diesel generator starts on the auto-start signal, energizes the emergency busses with permanently connected loads within 13 seconds, energizes the auto-connected emergency loads through the load 5 minutes while its generator is loaded with the emergency loads. After energization, the steady state voltage and frequency of the emergency busses shall be maintained at 4160 \pm 416 volts and 60 \pm 1.2 Hz during this test.

- b) For Division 3:
 - Verifying de-energization of the emergency bus.
 - Verifying the diesel generator starts on the auto-start signal, energizes the emergency bus with (ts) loads within 13 seconds and operates for greater than or equal to 5 minutes while its generator is loaded with the emergency loads. After energization, the steady state voltage and frequency of the emergency bus shall be maintained at 4160 ±416 volts and 60 ±1.2 Hz during this test.

Verifying that all diesel generator 0, 2A, and 2B automatic drips except the following are automatically bypassed on an ECCS actuation signal: (actual or simulated For Divisions 1 and 2 - engine overspeed, generator A.(3 SR 3.8.1.13 differential current, and emergency manual xino For Division 3 - engine overspeed, generator differential current, and marpency manual stop Add proposed SP 3.8.1.14 Note 3) All power-factor requirement Verifying the diesel generator operates for at least 24 hours. During the first 2 hours of this test, the diesel generator shall be loaded to greater than or equal to 2860 ldf and during the remaining 22 hours of this test, the diesel generator shall be loaded to 2400 kW to 2500 kW. **** The generator voltage and frequency shall be 4150 +420, -150 volts and 60 +3.0, -12 Hz within 13 seconds after the start signal: the steady-state

SR 3.8.1.14

All planned diesel generator starts performed for the purpose of meeting these surveillance requirements may be preceded by an engine prelube period as recommended by the manufacturer.

SR 3.8.1.14 (***Transients, outside of this load band, do not invalidate the survaillance Notel SR 3.8.1.157 tests. Note 1

LASALLE - UNIT 2

3/4 8-6

Amendment No. 59

Hoge 23.0+28

SURVEILLANCE REQUIREMENTS (Continued)

- Generator underfrequency. Low lube oil pressure.
 - High jacket cooling temperature:
- Generator peverse power.
- Generator overcurrent. Generator loss of field.

Engine cranking lockout.

At least once per 10 years or after any medifications which could affect diesel generator interdependence by starting diesel generators O, 2A, and 2B simultaneously*, during shutdown, and verifying that all three diesel generators accelerate to 900 rpm + 5. 2% in less than or equal to 13 seconds. L.9 258.8 Hz Add proposed voltage limit

At least once per 10 years by:

Draining each fuel oil storage tank, removing the accumulated sediment and cleaning the tank using a sodium hypochlorite or equivalent solution, and

Performing a pressure test of those portions of the diesel fuel oil system designed to Section III, subsection ND, of the ASME Code in accordance with ASME Code Section 11, Article IWD-5000.

4.8.1.1.3 Reports - (Not Used).

Noved to \ \ ITS 38.3

Add proposed SR 3.8.1.21

**All planned diesel generator starts performed for the purpose of meeting Note | these surveillance requirements may be preceded by an engine prelube period, as recommended by the manufacturer.

SURVEILLANCE REQUIREMENTS (Continued)

- a) Generator underfrequency.
- b) Low lube oil pressure.
- c) High jacket cooling temperature.
- d) Generator reverse power.
- e) Generator overcurrent.f) Generator loss of field.
- Engine cranking lockout.
- e. At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting diesel generators 0, 2A, and 2B simultaneously*, during shutdown, and verifying that all three diesel generators accelerate to 900 rpm + 5, -2% in less than or equal to 13 seconds.

f. At least once per 10 years by:

- 1. Draining each fuel oil storage tank, removing the accumulated sediment and cleaning the tank using a socium hypochlorite or equivalent solution, and
- 2. Performing a pressure test of those portions of the diesel fuel oil system designed to Section I/I, subsection ND, of the ASME Code in accordance with ASME Code Section 1/1, Article IWD-5000.

4.8.1.1.3 Reports - (Not Used).

(Sa ITS 3.8.1)

*All planned diesel generator starts performed for the purpose of meeting these surveillance requirements may be preceded by an engine prelube period, as recommended by the manufacturer.

LA SALLE - UNIT 2

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A.C. SOURCES - SHUTDOWN

or 2A inoperable, suspend CDRE ALTERATIONS, handling of irradiated fuel in the secondary containment and operations with a potential for draining the reactor vessel. Add Required Actions A.2.4 and B.4 b. With diesel generator 2B inoperable, restore the inoperable diesel generator 2B to OPERABLE status within 72 hours or declare the HPCS system: inoperable and take the ACTION required by Specifications 3.5.2 and 3.5.3 C. With diesel generator 1A inoperable, declare standby gas treatment system subsystem A and control room and auxiliary electric equipment room emergency filtration system train A inoperable and take the ACTION Paguired by Specifications 3.5.3 and 3.7.2		LIMITING CONDITION FOR OPERATION
OPERABLE: a. One circuit between the offsite transmission/network and the onsite Class IE distribution system, and b. Oless I generator 0 or 2A, and diesel generator 28 when the HPCS system is required to be OPERABLE, and diesel generator 1A when the offsite power source for standby gas treatment system subsystem A or control room and auxiliary electric equipment room emergency filtration system train A is inoperable and either or both systems are required to be OPERABLE, with each diesel generator having: 1. For diesel generator 0, 1A, and 2A: a) A separate day fuel tank containing a minimum of 250 gallons of fuel. b) A separate fuel storage system containing a minimum of 31,000 gallons of fuel. 2. For diesel generator 2B, a separate fuel storage tank/day tank A.Z. CONTAINING a minimum of 29,750 gallons of fuel ACTION: Add Peopesal ACTION A Note ACTION: Add Peopesal ACTION A Note With all effsite circuits inoperable and/or with diesel generators 0 or 2A inoperable, suspend CORE ALTERNITOMS, handling of irradicated fuel into-secondary containment and operations with a potential feel desired fuel is the secondary containment and operations with a potential diesel generator 2B to OPERABLE status within 27 hours or declare the HPCS system inoperable/and take the ACTION required by Specifications CITON C. With diesel generator 1A inoperable, declare standby gas treatment system subsystem A and control room and auxiliary electric equipment room emergency filtration system train A independent and 37.2.		[M.1]
ECO 3.8.2.0 Class IE distribution system, and b. Class IE distribution system, and diesel generator 28 when the HPCS system is required to be OPERABLE, and diesel generator 14 when the effects power source for standby gas treatment system subsystem A or control room and auxiliary electric equipment room emergency filtration system train A is inoperable and either or both systems are required to be OPERABLE, with each diesel generator having: 1. For diesel generator 0, 1A, and 2A: 2. For diesel generator 0, 1A, and 2A: 2. For diesel generator 28, a separate fuel storage tank/Ray tank 3.1,000 gallons of fuel. 2. For diesel generator 28, a separate fuel storage tank/Ray tank A.2. 3. A separate fuel storage system containing a minimum of 31,000 gallons of fuel. 2. For diesel generator 28, a separate fuel storage tank/Ray tank A.2. 4. A fuel transfer plump. APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and **. ACTIONS AND ADDITIONAL CONDITIONS 5, and ADDITIONS 4, 5, and **. ACTIONS AND ADDITIONAL CONDITIONS 5, and ADDITIONS 5, and ADDITIONS 6, and ADDITION	LCO 3.8.2	
SYSTEM IS REQUITED to be OPERALLE, and diesel generator 1A when the offsite power source for standby gas treatment system subsystem A or control room and auxiliary electric equipment room emergency filtration system train A is inoperable and either or both systems are required to be OPERALE, with each diesel generator having: SR 3.8.2.1 1. For diesel generator 0, 1A, and 2A: a) A separate day fuel tank containing a minimum of selfuel. b) A separate day fuel tank containing a minimum of selfuel. 2. For diesel generator 28, a separate fuel storage tank day tank A.7. CONTAINING & WINIMUM of 29,730 gallons of fuel APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and a. ACTION: Add Peoposed ACTION A Note. ACTIONS ACTION OF A imperable, suspend CORE ALTERATIONS, handling of irradiated fuel-in the secondary containment and operations with a potential for diesel generator 28 to OPERALE status within 72 hours or declare the HPCS system inoperable and cantrol room and auxiliary electric equipment room emergency filtration system train A inoperable field this type as unsured by Specifications of the local system inoperable and control room and auxiliary electric equipment room emergency filtration system train A inoperable field this type. ALM OF TRAINING TRAINING A state that A inoperable field this type.	LC03.8.2.a	a. One circuit between the offsite transmission network and the onsite Class IE distribution system, and
SR 3.8.2.1 2. For diesel generator 0, 1A, and 2A: a) A separate day fuel tank containing a minimum of 250 gallons of fuel. b) A separate fuel storage system containing a minimum of 31,000 gallons of fuel. 2. For diesel generator 28, a separate fuel storage tank/day tank A.2 CONTAINING & minimum of 2.750 gallons of fuel APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and *. ACTION: Add Peopesed ACTION A Note ACTION: Add Peopesed ACTION A Note With all offsite circuits inoperable and/or with diesel generators 0 or 2A inoperable, suspend CORE ALTERATIONS, handling of irradiated fuel in the secondary containment and operations with a potential for draining the reactor vessel. Add Required Actions A.2.4 and 8.4 With diesel generator 28 inoperable, restore the inoperable diesel generator 28 to OPERABLE status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specifications ACTION C With diesel generator 1A inoperable, declare standby gas treatment system subsystem A and control room and auxiliary electric equipment room emergency filtration system train A inoperable and Edits the ACTION required by Specifications 3.6.5.3 and 3.4.4	LCO 3.8.2.c	system is required to be OPERABLE, and diesel generator 1A when the offsite power source for standby gas treatment system subsystem A or control room and auxiliary electric equipment room emergency filtration system train A is inoperable and either or both systems are
a) A separate day fuel tank containing a minimum of 250 gallons of fuel. b) A separate fuel storage system containing a minimum of 31,000 gallons of fuel. 2. For diesel generator 28, a separate fuel storage tank day tank A.7. Containing a minimum of 25,750 gallons of fuel A.7. APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and *. ACTION: Add Peoposed ACTION A Note With all offsite circuits inoperable and/or with diesel generators 0 or 24 inoperable, suspend CORE ALTERATIONS, handling of irradiated fuel in the secondary containment and operations with a potential for draining the reactor vessel. Add Required Actions A.7.4 and B.4. With diesel generator 28 inoperable, restore the inoperable diesel generator 28 to OPERALE status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specifications ACTION C With diesel generator 1A inoperable, declare standby gas treatment system subsystem A and control room and suxiliary electric equipment room emergency filtration system train A inoperable and take the ACTION required by Specifications 3.5.3 and 3.7.2	503821	1. For diesel generator 0, 1A, and 2A:
2. For diesal generator 28, a separate fuel storage tank/day tank (Containing a minimum of 29.750 gallons of fuel (Containing a minimum of 29.750 gallons of fuel (Containing a minimum of 29.750 gallons of fuel (A) A fuel transfer plump. (A) Applicability: Operational conditions 4, 5, and *. (A) Action: Add peoposal Action A Note (CITONS (A) With all offsite (circuits inoperable and/or with diesal generators of or 24 inoperable, suspend CORE ALTERATIONS, handling of irradiated for draining the reactor vessely. (A) Add Required Actions A.2.4 and 8.4 (A) With diesal generator 28 inoperable, restore the inoperable diesal generator 28 to Operable status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specifications (CITON) (A) Proposad Action (A) (A) (A) Proposad Required Action (A) (A) (CITON) (CITON) (CITON) (A) Proposad Required Action (A) (A) (CITON) (CITON) (A) Proposad Required Action (A) (A) (CITON) (CITON) (CITON) (A) P	3K 3.8.2.1	a) A separate day fuel tank containing a minimum of 250 gallons of fuel.
APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and 2. APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and 2. ACTION: Add Peoposed ACTION A Note ACTION: Add Peoposed ACTION A Note Or 2A inoperable, suspend CORE ALTERATIONS, handling of irradiated fuel-in the secondary containment and operations with a potential for draining the reactor vessel. Add Required Actions A.2.4 and B.4 B. With diesel generator 28 inoperable, restore the inoperable diesel generator 28 to OPERABLE status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specifications ACTION C C. With diesel generator 1A inoperable, declare standby gas treatment system subsystem A and control room and auxiliary electric equipment room emergency filtration system train A inoperable and take the ACTION required by Specifications 3.5.3 and 3.7.2.		b) A separate fuel storage system containing a minimum of
APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and *. ACTION: Add Peoposed ACTION A Note Add Proposed Required Action And Proposed Required Proposed Re	583.8.211	containing a minimum of 29,750 gallons of fuel
ACTION: Add Peoposed ACTION A Note Add Proposed Required Action A. With all offsite circuits inoperable and/or with diesel generators of the inoperable, suspend CORE ALTERATIONS, handling of irradiated fuel in the secondary containment and operations with a potential for draining the reactor vessel. Add Required Actions A.2.4 and B.4 B. With diesel generator 28 inoperable, restore the inoperable diesel generator 28 to OPERABLE status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specifications 3.3.2 and 3.3.3. C. With diesel generator 1A inoperable, declare standby gas treatment system subsystem A and control room and auxiliary electric equipment room emergency filtration system train A inoperable and take the ACTION required by Specifications 3.5.3.3 and 3.7.2.	U	A.L. (3) A fuel transfer pump.
With all effsite circuits inoperable and/or with diesel generators of the secondary containment and operations with a potential for draining the reactor vessel. With diesel generator 28 inoperable, restore the inoperable diesel generator 28 to OPERABLE status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specifications CTION C With diesel generator 1A inoperable, declare standby gas treatment system subsystem A and control room and auxiliary electric equipment: Toom company filtration system train A inoperable and Lake the ACTION required by Specifications ACTION C ACTION D		
or 2A inoperable, suspend CDRE ALTERATIONS, handling of irradiated fuel in the secondary containment and operations with a potential for draining the reactor vessel. Add Required Actions A.2.4 and B.4 With diesel generator 28 inoperable, restore the inoperable diesel generator 28 to OPERABLE status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specifications 3.5.2 and 3.5.3. C. With diesel generator 1A inoperable, declare standby gas treatment system subsystem A and control room and auxiliary electric equipment room emergency filtration system train A inoperable and take the ACTION required by Specifications 3.5.3 and 3.7.2.		Add proposed Required Fetton hill
With diesel generator 28 inoperable, restore the inoperable diesel generator 28 to OPERABLE status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specifications 3.5.2 and 3.5.3 C. With diesel generator 1A inoperable, declare standby gas treatment system subsystem A and control room and auxiliary electric equipment room emergency filtration system train A inoperable and take the ACTION required by Specifications 3.5.3 and 3.7.2		or 2A inoperable, suspend CDRE ALTERATIONS, handling of irradiated M.U. fuel in the secondary containment and operations with a potential
generator 28 to OPERABLE status within 72 hours or declare the HPCS system: inoperable and take the ACTION required by Specifications 3.5.2 and 3.5.3. c. With diesel generator 1A inoperable, declare standby gas treatment system subsystem A and control room and auxiliary electric equipment room emergency filtration system train A inoperable and take the ACTION required by Specifications 3.5.3 and 3.7.2.		
system subsystem A and control room and auxiliary electric equipment room emergency filtration system train A inoperable and take the ACION required by Specifications 3.5.3 and 3.7.2	ction C	generator 28 to OPERABLE status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specifications A.S.
The second first of the second	(CTION D	system subsystem A and control room and auxiliary electric equipment room emergency filtration system train A inoperable and take the
ACTIONS NO. E	A 1077	The second date of the second
	KITIONS NOT	

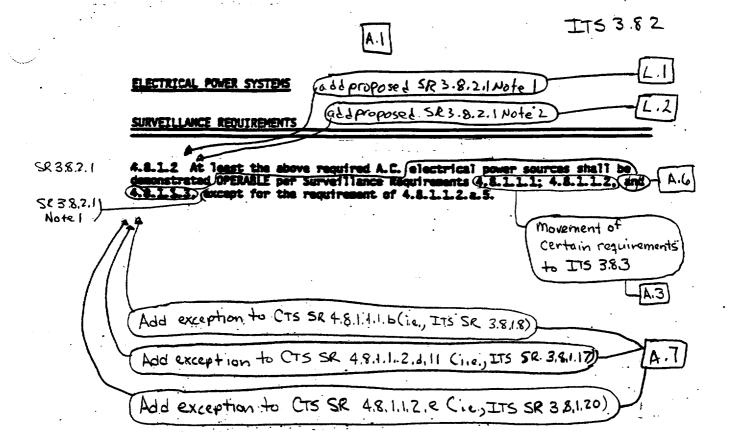
LA SALLE - UNIT 2

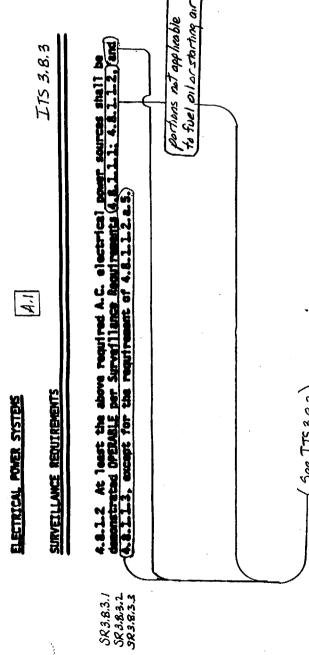
3/4 8-8

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add proposed fuel oil storage tank and starting air LCO A.2 ELECTRICAL POWER SYSTEMS A.C. SOURCES - SHUTDOWN A.1 ITS 3.8.3 LIMITING CONDITION FOR OPERATION 3.8.1.2 As a minimum, the following A.C. electrical power sources shall be OPERABLE: One circuit between the offsite transmission network and the onsite 4. Class 1E distribution system, and Diesel generator 0 or 2A, and diesel generator 28 when the HPCS system is required to be OPERABLE, and diesal generator 1A when the offsite power source for standby gas treatment system subsystem A or control room and auxiliary electric equipment room emergency filtration system train A is inoperable and either or both systems are required to be OPERABLE, with each diesel generator having: For diesel generator 0, 1A, and 2A: A separate day fuel tank containing a minimum of 250 gallons of fuel. A separate fuel storage system containing a minimum of P) 31,000 gallons of fuel. A.3 SR 3.8.3.1 For diesel generator 28, a separate fuel storage tank/day tank containing a minimum of 29,750 gallons of fuel. A fuel transfer pump.) (APPLICABILITY: A.2 OPERATIONAL CONDITIONS 4, 5, and *. CTION: With all offsite circuits inoperable and/or with diesel generators 0 or 2A inoperable, suspend CORE ALTERATIONS, handling of irradiated fuel in the secondary containment and operations with a potential for draining the reactor vessel. With: diesel generator 28 inoperable, restore the inoperable diesel generator 25 to OPERABLE status within 72 hours or declare the HPCS system: inoperable and take the ACTION required by Specifications 3.5.2 and 3.5.3. With diesel generator IA inoperable, declare standby gas treatment system subsystem A and control room and auxiliary electric equipment room emergency filtration system train A inoperable and take the ACTION required by Specifications 3.6.5.3 and 3.7.2. The provisions of Specification 3.0.3 are not applicable. d. A.2 When handling irradiated fuel in the secondary containment. add proposed ACTIONS A, B, C, D, and E and ACTIONS NOTE L.I LA SALLE - UNIT 2 (See ITS 3.8,2)

tage 11 of 12







3/4.8.2 ONSITE POWER DISTRIBUTION SYSTEMS

A. C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION

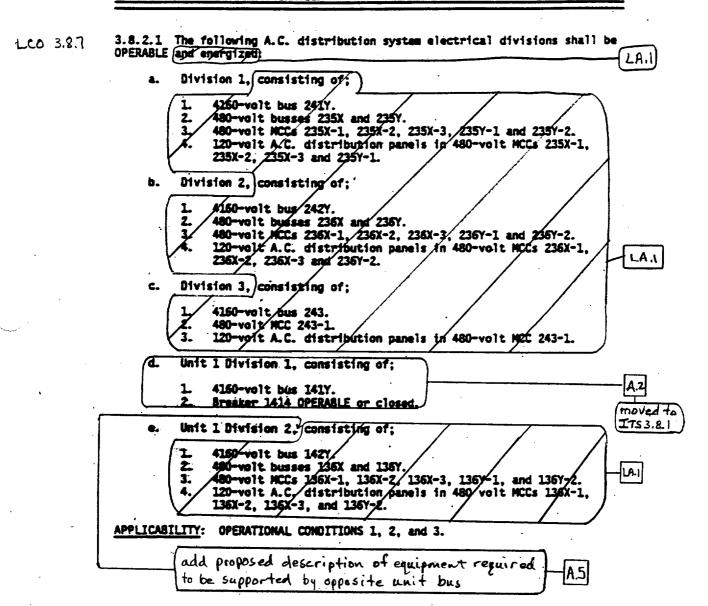
3.8.2.1 The following A.C. distribution system electrical divisions shall be OPERABLE and energized: Division 1, consisting of; 4160-volt bus 241Y. 480-volt busses 235X and 235Y. 480-volt MCCs 235X-1, 235X-2, 235X-3, 235Y-1 and 235Y-2. 120-volt A.C. distribution panels in 480-volt MCCs 235X-1, 235X-2, 235X-3 and 235Y-1. See ITS 3.8.7 b. Division 2, consisting of; 4160-volt bus 242Y. 480-volt busses 236X and 236Y. 480-volt MCCs 236X-1, 236X-2, 236X-3, 236Y-1 and 236Y-2. 120-volt A.S. distribution panels in 480-volt MCCs 236X-1, 236X-2, 236X-3, and 236Y-2. Division 3, consisting of; 4160-volt bus 243. 480-volt MCC 243-1. 120-volt A.C. distribution panels in 480-volt MCC 243-1 LA.T Unit 1 Division 1, consisting of; عملا 3.8.1.a 4150-volt bus (417). Breaker 1414 OPERABLE OF closed. A. 1 Unit I Division 2, consisting of; 4150-volt bus 142Y. : 480-volt busses 136X and 136Y. 480-volt MCCs 136X-1, 136X-2, 136X-3, 136Y-1, and 136Y-2. 120-volt A.C. distribution panels in 480 volt MCCs 136X-1, 136X-2, 136X-3, and 136Y-2. APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. See ITS 3.8.7

LA SALLE - UNIT 2

3/4.8.2 ONSITE POWER DISTRIBUTION SYSTEMS

A. C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION



LA SALLE - UNIT 2

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LIMITING CONDITION FOR OPERATION (Continued)

ACTION:

a. With either Division 1 or Division 2 of the above required A.C. distribution system inoperable or not energized, restore the inoperable division to OPERABLE and energized status within 8 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours

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- b. With Division 3 of the above required A.C. distribution system inoperable or not energized, declare the HPCS system inoperable and take the ACTION required by Specification 3.5.1.
- ACTION A

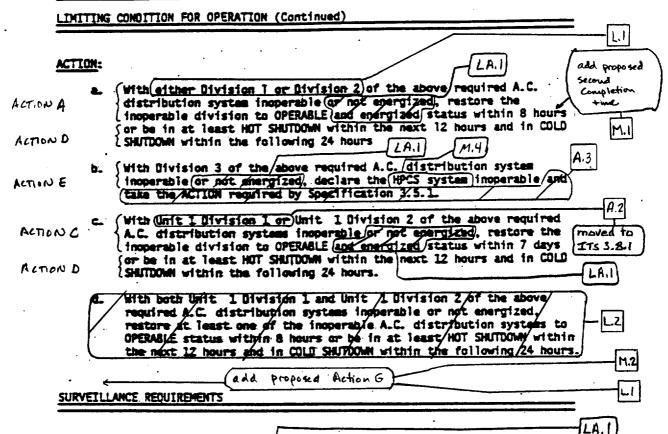
 C. With Unit 1 Division 1 of Unit 1 Division 2 of the above required A.C. distribution systems inoperable or not energized, restore the inoperable division to OPERABLE and energized status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
 - d. With both Unit 1 Division 1 and Unit 1 Division 2 of the above required A.C. distribution systems inoperable or not energized, restore at least one of the inoperable A.C. distribution systems to OPERABLE status within 8 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

See ITS 3.8.7

SURVEILLANCE REQUIREMENTS

4.8.2.1 The above required A.C. distribution system electrical divisions shall be determined OPERABLE and energized at least once per 7 days by verifying correct breaker alignment and voltage on the busses/panels.

LA SALLE - UNIT 2



4.8.2.1 The above required A.C. distribution system electrical divisions shall be determined OPERABLE and energized at least once per 7 days by verifying correct breaker alignment and voltage on the busses/panels.

LA SALLE - UNIT 2

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LA.1

ELECTRICAL POWER SYSTEMS

A.C. DISTRIBUTION - SHUTDOWN

LIMITING CONDITION FOR OPERATION

LC03.7 3.8.2.2 As a minimum, Division 1 @ Division 2, and Division 3 when the HPCS system is required to be OPERABLE, and Unit 1 Division 2 when the standby gas treatment system and/or the control room and auxiliary electric equipment room emergency filtration system are required to be OPERABLE, of the A.C. distribution system shall be OPERABLE and energized with:

to support equipment Division 1. consisting of: required to be OPERABLE 4160-volt bus 241Y. 480-volt busses 235X and 235Y. 480-volt MCCs 235X-1, 235X-2, 235X-3, 235Y-1, and 235Y-2. 120-volt A.C. distribution panels in 480-volt MCCs 235X-1, 235X-2, 235X-3, and 235Y-1. Division 2, consisting of; 4160-volt bus 242Y. 480-volt busses 236X and 236Y. 480-volt MCCs 236X-1, 236X-2, 236X-3, 236Y-1, and 236Y-2/120-volt A.C. distribution panels in 489-volt MCCs 236Y-1 LA.1 236X-2/236X-3, and 236Y-2. Division 3, consisting of 4160-volt bus 243 4**6**0-volt MCC 243-1 120-volt A.C. distribution panels in 480-volt MCG 243-1. Unit 1 Division 2, consisting of; 4160-volt busses 136X and 136Y.
480-volt MCCs 136X-1, 136X-2, 136X-3, and 136Y-1.
120-volt A.C. distribution panels in 480-volt MCCs 136X-1, 136X-2; and 136X-3.

APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and *.

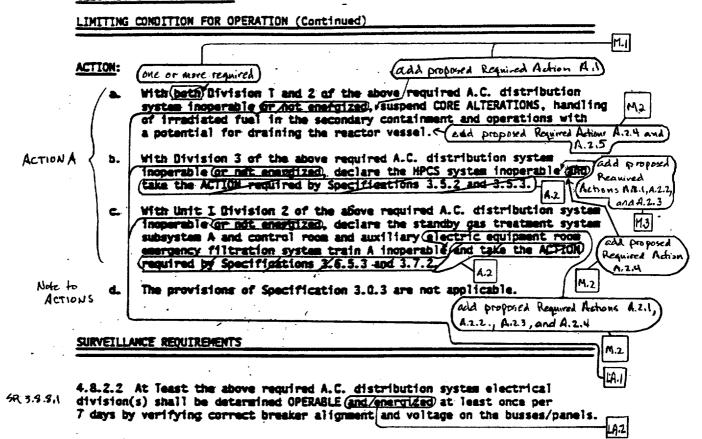
APPLICABILITY

Then handling irradiated fuel in the secondary containment.

LA SALLE - UNIT 2

4.(

ELECTRICAL POWER SYSTEMS



LA SALLE - UNIT 2

ELECTRIC	A.I. POWER SYSTEMS	General Description	A.2
	TRIBUTION - OPERATING CONDITION FOR OPERATION		
3.8.2.3 OPERABLE	(add proposer LCO 3.8.4) The following D.C. distribution sy and energized:	rstem electrical divisions shall b	A-2
•	Division 1, consisting of; 1. 125-volt battery 2A. 2. 125-volt full capacity charg 3. 125-volt distribution panel		
8.	Division 2, consisting of; 1. 125-volt battery 28. 2. 125-volt full capacity charg 1. 125-volt distribution panel	See 1753.1	<u> </u>
e.	Division 3/ consisting of; 1. 125-volt bettery 2C. 2. 125-volt full capacity charg 3. 125-volt distribution panel	23	<i>A.i</i>
•	Unit 1 Division 2, consisting of; 1/ 125-volt Mattery 12 2. 125-volt full capacity charg 3. 125-volt distribution panel		site unit)
	ILITY: OPERATIONAL CONDITIONS 1, 2	e, and 3.	
ACTION A ACTION E	With either Division I or Division restore the insperable division to within 2 hours/or be in at least 12 hours and in COLD SHUTDOWN with	to OPERABLE <u>and energized status</u> . HOT SHUTDOWN within the next.	See TIS387
KTION B		TION required by Specification 3.	A.3] 5.1)
ction d e	insperable division to OPERABLE	<u>nd energized statub</u> within 7 days thin the next 12 hours and in CDL	A.I
			\ <u>r\2381</u> /

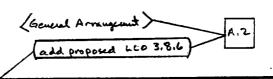
LA SALLE - UNIT 2

See IIS 3.8.4 and ITS 3.8.7>

ELECTRICAL POWER SYSTEMS

D.C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION



3.8.2.3 The following D.C. distribution system electrical divisions shall be OPERABLE and energized:

- Division 1, consisting of; 1. 125-volt battery 2A.

 - 125-volt full capacity charger.
 - 125-volt distribution panel 211Y.
- Division 2, consisting of; 1. 125-volt battery 28.

 - 125-volt full capacity charger. 125-volt distribution panel 212Y.
- Division 3, consisting of: 1. 125-volt battery 2C.

 - 125-volt full capacity charger.
 - 125-volt distribution panel 213.
- Unit I Division 2, consisting of;
 - 125-volt battery 18.
 - 125-volt full capacity charger.
 - 125-volt distribution panel 112Y.

APPLICABILITY: OPERATIONAL COMOITIONS 1, 2, and 3.

ACTION:

- With either Division I or Division 2 inoperable or not energized, restore the inoperable division to OPERABLE and energized status within 2 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- With Division 3 inoperable or not energized, declare the HPCS system inoperable and take the ACTION required by Specification 3.5.1.
- With Unit 1 Division 2 inoperable or not energized, restore the inoperable division to OPERABLE and energized status within 7 days er be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

(See ITS 3.8.4 and ITS 3.8.7)

LA SALLE - UNIT 2

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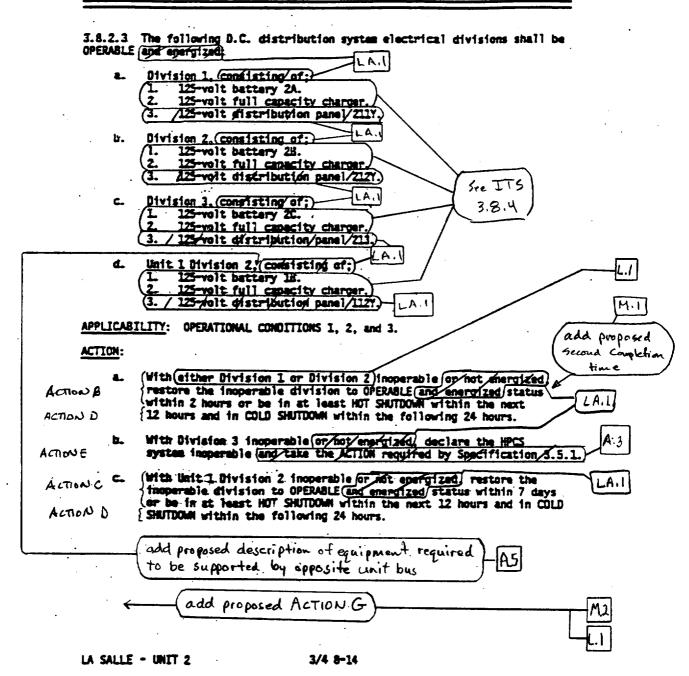
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A.1

ELECTRICAL POWER SYSTEMS

D.C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION



Page 8 of 10

SURVEILLANCE REQUIREMENTS

(1753.8.7)

4.8.2.3.1 Each of the above required D.C. distribution system electrical divisions shall be determined OPERABLE and energized at least once per 7 days by verifying correct breaker alignment, indicated power availability from the charger and battery, and voltage on the panel with an overall voltage of greater than or equal to 125 volts.

4.8.2.3.2 Each 125-volt battery and charger shall be demonstrated OPERABLE:

At least once per 7 days by verifying that: The parameters in Table 4.8.2.3.2-1 meet the Category A limits SR3.8.4.1 moved to ITS 3.8.6 Total bettery terminal voltage is greater than or equal to 128 valts on float charge. At least once per 92 days and within 7 days after a battery discharge with battery voltage below 110 volta, or battery overcharge with battery terminal voltage above 150 volts, by varifying that 583,84.Z moved to The parameters in Table 4.8.2.3.2-1 meet the Category 8 limits ITS 3.8.4 There is no visible corresion at either terminals or connectors, or the connection resistance of these items is less than 150 \times 10-4 ohm, and The average electrolyte temperature of at least 10 connected cells is above 60°F. moved to At least ence per months by verifying that: LD.I The cells, cell plates and bettery racks show no visual SR3.8.4.3 indication of physical damage or abnormal deterioration, The cell-te-cell and terminal connections are clean, tight, SR 3.8.4.4 free of corresion, and coated with anticorresion material. The resistance of each cell and terminal connection is less SR3.8.4.5 their or aqual to 150 x 10-0 ohm, and The bettery charger will supply a load equal to the SR3.8.4.6 menufacturer's rating for at least Thours.

LASALLE - UNIT 2

3/4 8-15

Amendment No. 58

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(See ITS 3.8.4)

SURVEILLANCE REQUIREMENTS

(See ITS 3.8.7)

4.8.2.3.1 Each of the above required D.C. distribution system electrical divisions shall be determined OPERABLE and energized at least once per 7 days by verifying correct breaker alignment, indicated power availability from the charger and battery, and voltage on the panel with an overall voltage of greater than or equal to 125 volts.

- 4.8.2.3.2 Each 125-volt battery and charger shall be demonstrated OPERABLE:
 - a. At least once per 7 days by verifying that:
- 5R3.8.6.1
- 1. The parameters in Table 4.8.2.3.2-1 meet the Category A limits, and
- Total battery terminal voltage is greater than or equal to 128 volts on float charge.)
- b. At least once per 92 days and within 7 days after a battery discharge with battery voltage below 110 volts, or battery overcharge with battery terminal voltage above 150 volts, by verifying that:
- 5R 3.8.6.2
- L. The parameters in Table 4.8.2.3.2-1 meet the Category 8 limits,
- 2. There is no visible corrosion at either terminals or connectors, or the connection resistance of these items is less than 150 \times 10-8 ohm, and
- 5 R 3.8.6.3
- 3. The average electrolyte temperature of at least 10 connected cells is above 60°F.
- c. At least once per 18 months by verifying that:

- The cells, cell plates and bettery racks show no visual indication of physical damage or abnormal deterioration,
- 2. The cell-to-cell and terminal connections are clean, tight, free of corrosion, and coated with anticorrosion material,
- The resistance of each cell and terminal connection is less than or equal to 150 \times 10-8 ohm, and
- 4. The battery charger will supply a load equal to the manufacturer's rating for at least 8 hours.

< See ITS 3.8.4>

LASALLE - UNIT 2

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Amendment No. 58

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SURVEILLANCE REQUIREMENTS

5R3.8.7.1

4.8.2.3.1 Each of the above required D.C. distribution system electrical divisions shall be determined OPERABLE and energized at least once per 7 days by verifying correct breaker alignment, lipdicated power availability from the charger and battery, and voltage on the panel with an overall voltage of LA.2 greater than or equal to 225 voltage.

- 4.8.2.3.2 Each 125-volt battery and charger shall be demonstrated OPERABLE:
 - a. At least once per 7 days by verifying that:
 - The parameters in Table 4.8.2.3.2-1 meet the Category A limits, and
 - Total battery terminal voltage is greater than or equal to 128.
 Volts on float charge.
 - b. At least once per 92 days and within 7 days after a battery discharge with battery voltage below 110 volts, or battery overcharge with battery terminal voltage above 150 volts, by verifying that:
 - 1. The parameters in Table 4.8.2.3.2-1 meet the Category B limits,
 - 2. There is no visible corrosion at either terminals or connectors, or the connection resistance of these items is less than 150 \times 10-8 ohm, and
 - The average electrolyte temperature of at least 10 connected cells is above 60°F.
 - c. At least once per 18 months by verifying that:
 - The cells, cell plates and battery racks show no visual indication of physical damage or abnormal deterioration,
 - The cell-to-cell and terminal connections are clean, tight, free of corrosion, and coated with anticorrosion material,
 - 3. The resistance of each cell and terminal connection is less then or equal to 150×10^{-6} ohm, and
 - The battery charger will supply a load equal to the manufacturer's rating for at least 8 hours.

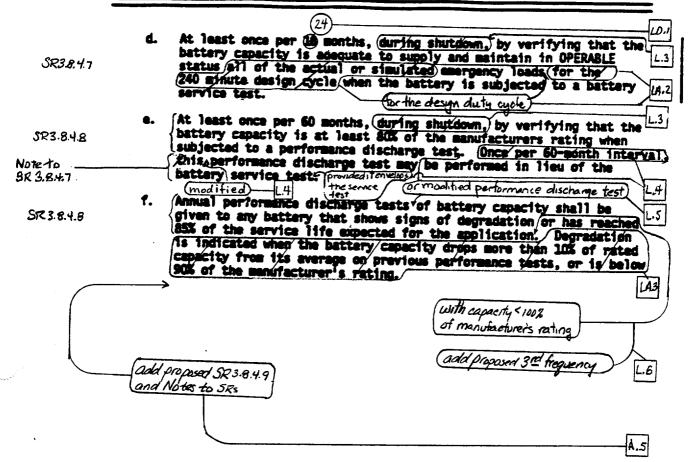
(SeeITS 3.84)

LASALLE - UNIT 2

3/4 8-15

Amendment No. 58

SURVEILLANCE REQUIREMENTS (Continued)



LASALLE - UNIT 2

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Amendment No. 58

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TABLE 4.8.2.3.2-1

BATTERY SURVEILLANCE REQUIREMENTS

	CATEGORY A ⁽¹⁾	EGORY A ⁽¹⁾ CATEGORY B ⁽²⁾		
Parameter	Limits for each designated pilot cell	Limits for each connected cell	Allowable (3) value for each connected cell	
Electrolyte Level	>Minimum level indication mark and ≤ ½" above maximum level indication mark	>Minimum level indication mark, and < 날" above maximum level indication mark	Above top of plates, and not overflowing	
Float Voltage	≥ 2.13 volts	≥ 2.13 volts(c)	> 2.07 volts	
	(b)	≥ 1.195	Not more than .020 below the average of all connected cells	
Specific Gravity ^(a)	≥ 1.200 ^(b)	Average of all connected cells > 1.205	Average of all connected cells > 1.195 ^(b)	

(a) Corrected for electrolyte temperature and level.

(b) Or battery charging current is less than 2 amperes when on float charge.

(c) May be corrected for average electrolyte temperature.

(1) For any Category A parameter(s) outside the limit(s) shown, the battery may be considered OPERABLE provided that within 24 hours all the Category B measurements are taken and found to be within their allowable values, and provided all Category A and B parameter(s) are restored to within limits within the next 7 days.

(2) For any Category B parameter(s) outside the limit(s) shown, the battery may be considered OPERABLE provided that the Category B parameters are within their allowable values and provided the Category B parameter(s) are restored

to within limits within 7 days.

(3) Any Category B parameter not within its allowable value indicates an inoperable battery.

A.1

Table 3.8.6-1 TABLE 4.8.2.3.2-1

BATTERY SURVEILLANCE REQUIREMENTS

Parameter Limits for each designated pilot connected cell value for each connected cell indication mark and < % above maximum level indication mark, and < % above top of plates, and not overflowing maximum level indication mark. Float Voltage > 2.13 volts		Category A	Category B	Category C	
Electrolyte Minimum level indication mark and < \frac{1}{2} above maximum level and < \frac{1}{2} above and	CATEGORY A ⁽¹⁾ CATEGORY B ⁽²⁾				
Level indication mark and < \frac{\psi}{\psi} above maximum level indication mark and < \frac{\psi}{\psi} above maximum level indication mark and < \frac{\psi}{\psi} above maximum level indication mark 2 2.13 volts 3 2.07 volts 3 2.00 below the average of all connected cells 2 2.195 3 2.195 3 3 3 3 3 3 3 3 3	Parameter	designated pilot		value for each	
Average of all connected cells Specific Specific		indication mark and < ¼" above maximum level	indication mark, and < 칳" above maximum level	plates, and not	
Specific 2 1.200 2 1.195 2 1.195 2 1.195 2 1.195 3 3 3 3 3 3 3 3 3	Float Voltage	≥ 2.13 volts	/ ≥ 2.13 volts € M.1	> 2.07 volts	
Average of all connected cells Average of all connected cells	·	(footnote is)	× 1.195	.020 below the average of all	
Note(c) (b) Or battery charging current is less than 2 amperes when on float charge! time allowance (c) May De corrected for average electrolyte temperature. (1) For any Category A parameter(s) outside the limit(s) shown, the battery may be considered OPERABLE provided that within 24 hours all the Category B measurements are taken and found to be within their allowable values, and provided all Category A and B parameter(s) are restored to within limits within the next (2 days. (3) (2) For any Category B parameter(s) outside the limit(s) shown, the battery may be considered OPERABLE provided that the Category B parameters are within Action A their allowable values and provided the Category B parameters are within M.3 ACTION A their allowable values and provided the Category B parameters are within M.3 ACTION B inches within (2 days. (3)) (3) Any Category B parameter not within its allowable value indicates an inoperable battery. And proposed Action B for electrolyte temperature and category Art B limits het westered	Specific Gravity ^(a) ←		connected cells	connected cells	
in all	Actions A their all to within (3) Any Category (3) Or batter (4) Or batter (4) Or batter (4) For any (5) May be considered (5) For any (5) May Category (5) Any Category (5) Or batter (5) Or batter (6) Or batter (7) For any (6) May Category (7) Or batter	ry charging current is precised for average elected for average el	less than 2 amperes who lectrolyte temperature) outside the limit(s) wided that within 24 hours do not be within their a parameter(s) are restored outside the limit(s) wided that the Category B parameter allowable values. Action B for electrolyte to	shown, the battery urs all the Category B llowable values, and ed to within limits shown, the battery B parameters are within rameter(s) are restored ue indicates an	M.1 M.3

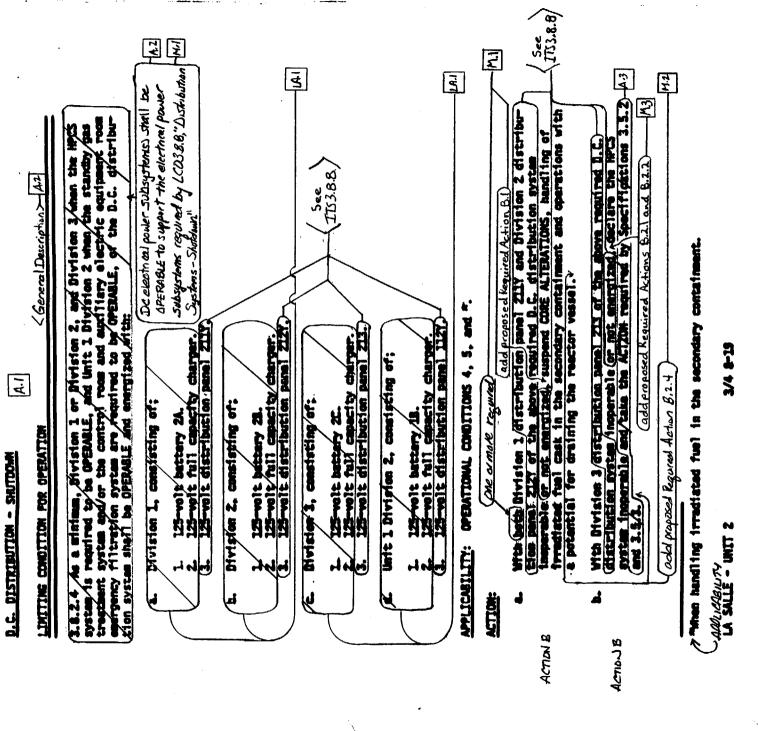
LASALLE - UNIT 2

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AMENDMENT NO. 66

System

ELECTRICAL POPER



Lage 3 of 4

D.C. DISTRIBUTION - SHUTDOWN

General Arrangement A.2

LIMITING CONDITION FOR OPERATION

3.8.2.4 As a minimum, Division 1 or Division 2, and Division 3 when the HPCS system is required to be OPERABLE, and Unit 1 Division 2 when the standby gas treatment system and/or the control room and auxiliary electric equipment room emergency filtration system are required to be OPERABLE, of the D.C. distribution system shall be OPERABLE and energized with:

- a. Division 1, consisting of;
 - 1. 125-volt battery 2A.
 - 2. 125-volt full capacity charger.
 - 3. 125-volt distribution panel 211Y.
- b. Division 2, consisting of;
 - 1. 125-volt battery 28.
 - 2. 125-volt full capacity charger.
 - 3. 125-volt distribution panel 212Y.
- .c. . Bivision 3, consisting of;
 - 1. 125-volt bettery 2C.
 - 125-volt full capacity charger.
 - 3. 125-volt distribution panel 213.
- d. Unit 1 Division 2, consisting of;
 - 1. 125-volt bettery 18.
 - 2. 125-volt full capacity charger.
 - 3. 125-volt distribution panel 112Y.

APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and *.

A .3

(See ITS 3.8.5 and 3.8.8)

ACTION:

- a. With both Division 1 distribution panel 211Y and Division 2 distribution panel 212Y of the above required D.C. distribution system inoperable or not energized, suspend CDRE ALTERATIONS, handling of irradiated fuel cask in the secondary containment and operations with a potential for draining the reactor vessel.
- b. With Division 3 distribution panel 213 of the above required D.C. distribution system inoperable or not energized, declare the HPCS system inoperable and take the ACTION required by Specifications 3.5.2 and 3.5.3.

"When handling irradiated fuel in the secondary containment.

A.3

LA SALLE - UNIT 2

A.(

ELECTRICAL POWER SYSTEMS

D.C. DISTRIBUTION - SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.8.2.4 As a minimum, Division 1 @ Division 2, and Division 3 when the HPCS L603.8.8 system is required to be OPERABLE, and Unit 1 Division 2 when the standby gas treatment system and/or the control room and suciliary electric equipment room emergency filtration system are required to be OPERABLE, of the D.C. distribution system shall be OPERABLE and knord 200 with: to suggest equipment required to be DPERABLE Division 1, consisting of; 125-volt bettery 24. M.i 125-volt full capacity charger. 125-valt distribution penal 2117. Division 2, consisting of: 125-volt battery 28. 125-valt full capacity charger. 125-velt distribution panel /2121 See ITS 3.8.5) Division 1, consisting of: 125-voit bettery 2C. 125-volt full capacity charger. / 125-volt/distribution panel 213. LA. Unit 1 Division 2, consisting of; 125-volt bettery 18. 125-volt full capacity charger 3. 125 valt distribution panel 1124. APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and *. M. I ACTION: One or more required) add proposed Required Action Ail LAI With both Division 1 distribution panel 2118 and Division 2 distribution tist panel 2127) of the above required D.C. distribution system imperable: or not energized, suspend CORE ALTERATIONS, handling of ferradiated fuel cask in the secondary containment and operations with M.2 ACTION a potential for draining the reactor vessel. + Chi proposed Required Autions A.Z.4 and A With Division 3 distribution panel 213 of the above required D.C. distribution system inoperable of Act energized, declare the HPCS system inoperable and take the ACTION paguired by Specifications 3.5.2 and 3.5,3. proposed Required Actions A. 2.1, A.2.2, and A.2.3 add proposed. Required Action A.2.4 Applicability Then handling irradiated fuel in the secondary containment.

LA SALLE - UNIT 2

1753.85

LINITING CONDITION FOR OPERATION (Continued)

ACTUAL B AcnowAACTION B P (Continued) With one division bettery ind/or bettery charger inoperable, operation may continue provided the Unit tie breakers for the affected division are OFENALE and aligned to supply power to the affected distribution panel from the associated OFENALE Unit 1 125-volt D.C. distribution panel; restors the inoperable bettery and/or charger to OFENALE status within 72 hours/or declare the division distribution panel inoperable. With Left I Division 2/07 the above required 0.C. distribution (NYSTEE) Imperable or not energized, declare the standay gas treated assignment room and the control room and auxiliary electric entirement room energiancy filtration system train A inoperable and take the ACTION required by Specifications 3.6.5.3 and 3/1.2. Verify within 둢 Add proposed Condition A Note Ħ Regimend heting Regimend heting B.21, B.2.3 A3 A.4

Note to Athan B provisions 2

Specification 1.0.3 are

applicable.

STANET THANCE MEANINGHEALT

4.8.2.4. I At least the above required D.C. distribution system division(s) shall be determined OPENABLE and energized at least 7 days by verifying correct breaker alignment and voltage on the overall voltage of greater the n or equal to 125 volts. 3 # least once per on the panel(s) shall be electrical nstrated 臣 TTS 3.8.8

4.8.2.4.2 At least the openALE per Surveillance

58385.1

Z SEFE

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

- c. With one division battery and/or battery charger inoperable, operation may continue provided the Unit tie breakers for the affected division are OPERABLE and aligned to supply power to the affected distribution panel from the associated OPERABLE Unit 1 125-volt D.C. distribution panel; restore the inoperable battery and/or charger to OPERABLE status within 72 hours or declare the division distribution panel inoperable.
- d. With Unit I Division 2 of the above required D.C. distribution system inoperable or not energized, declare the standby gas treatment system subsystem A and the control room and auxiliary electric equipment room emergency filtration system train A inoperable and take the ACTION required by Specifications 3.6.5.3 and 3.7.2.
- e. The provisions of Specification 3.0.3 are not applicable.

(See ITS 3.B. Sand ITS 3.B.B)

SURVEILLANCE REQUIREMENTS

4.8.2.4.1 At least the above required D.C. distribution system electrical division(s) shall be determined OPERABLE and energized at least once per 7 days by verifying correct breaker alignment and voltage on the panel(s) with an everall voltage of greater than or equal to 125 volts.

N.8.2.4.2 At least the above regulared battery and charger shall be demonstrated OPERABLE per Surveillance Requirement 4.8.2.3.2.

(See ITS 3.8.87

LA SALLE - UNIT 2

See ITS

add proposed

Recouncil

Action 4

A.2.1, A.2.2, A.2.3 and A.2.4

38,5

ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

With one division battery and/or battery charger inoperable, operation may continue provided the Unit tie breakers for the affected division are OPERABLE and aligned to supply power to the affected distribution panel from the associated OPERABLE Unit 1 125-volt D.C. distribution panel; restore the inoperable battery and/or charger to OPERABLE status within 72 hours or declare the division distribution panel inoperable.

d. With Unit I Division 2 of the above required D.C. distribution system inoperable Or Not energized, declare the standby gas treatment system subsystem A and the control room and auxiliary electric A.z. equipment room emergency filtration system train A inoperable and take the ACTION required by Specifications 3.6.5.2 and 3.7.2

Note to Actions

. ACTION 4

The provisions of Specification 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

5R 3.8.8.1 4.8.2.4.7 At least the above required D.C. distribution system electrical division(s) shall be determined OPERABLE and energized at least once per 7 days by verifying correct breaker alignment and voltage on the panel(s)(with an overall voltage of greater than or equal to 125 volts.)

4.8.2.4.2 At least the above required battery and charger shall be demonstrated OPERABLE per Surveillance Requirement 4.8.2.3.2.

(Fe ITS) 3.8.5)

LA SALLE - UNIT 2

3/4 8-20

Page 8 of 8

3/4.8.3 ELECTRICAL EQUIPMENT PROTECTIVE DEVICES

A.C. CIRCUITS INSIDE PRIMARY CONTAINMENT

LIMITING CONDITION FOR OPERATION

3.8.3.1 At least the following A.C. circuits inside primary containment shall be deenergized*:

- a. Installed welding grid systems 2A and 2B, and
- b. All derwell lighting circuits.
- c. All drywell hoists and cranes gircuits.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION

With any of the above required circuits energized, trip the associated circuit breaker(s) in the specified panel(s) within 1 hour.

SURVEILLANCE REQUIREMENTS

4.8.3.1 Each of the above required A.C. circuits shall be determined to be demengized at least once per 24 hours by verifying that the associated circuit breakers are in the tripped condition.

"Except during entry into the drywell.

Except at Yeast once per 31 days if locked, sealed, or otherwise secured in the tripped condition.

LA SALLE - UNIT 2

3/4 8-21

2.1

PRIMARY CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

LIMITING CONDITION FOR OPERATION

3.8.3.2 Primary and backup primary containment penetration conductor overcurrent protective devices associated with each primary containment medium and high voltage (6.9 kV, 4.16 kV and 480 volt) electrical penetration circuit shall be OPERABLE. The scope of these protective devices excludes those circuits for which credible fault currents would not exceed the electrical penetration design rating.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3,

ACTION:

With one or more of the primary containment penetration conductor overturrent protective devices inoperable, restore the protective device(s) to OPERABLE status or de-energize the circuit(s) by tripping the associated circuit breaker or ranking out or removing the inoperable circuit breaker within 72 hours, declare the affected system or component inoperable, and verify the circuit breaker to be tripped or the inoperable circuit breaker racked out, or removed, at least once per 7 days thereafter. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours

SURVEILLANCE REQUIREMENTS

- 4.8.3.2 Each of the primary containment penetration conductor overcurrent protective devices shall be demonstrated OPERABLE.
 - a. At least once per 18 months:
 - 1. By verifying that the 6.9 kV and 4.16 kV circuit breakers are OPERABLE by selecting, on a rotating basis, at least 10% of the circuit breakers and performing:
 - a) A CHANNEL CALIBRATION of the associated protective relays,
 - b) An integrated system functional test of the breakers overcurrent protective trip circuit which includes simulated automatic actuation of the trip system to demonstrate that the overall penetration protection design remains within operable limits
 - c) For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.

3/4 8-22

Amendment No. 78

LA SALLE - UNIT 2

Page 3 of 4

SURVEILLANCE REQUIREMENTS (Continued)

By selecting and functionally testing a representative sample of at least 10% of each type of 480-volt circuit breakers. Circuit breakers selected for functional testing shall be selected on a rotating basis. Testing of these circuit breakers shall consist of injecting a current in excess of 120% of the breakers nominal setpoint and measuring the response time. The measured response time will be compared to the manufacturer's data to insupe that it is less than or equal to 120% of a value specified for test current by the manufacturer. Circuit breakers found inoperable during functional testing shall be restored to OPERABLE status prior to resuming operation. For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.

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At least once per 60 months by subjecting each circuit breaker to an inspection and preventive maintenance in accordance with procedures prepared in conjugation with its manufacturer's recommendations.

LASALLE - UNIT 2

3/4 8-23

Amendment No. 23

MOTOR OPERATED VALVES THERMAL OVERLOAD PROTECTION

IMITING CONDITION FOR OPERATION

3.8.3.3 The thermal overload protection of each valve shown in Table 3.8.3.3-1 shall be bypassed continuously or under accident conditions, as applicable, by an OPERABLE bypass device integral with the motor starter.

APPLICABILITY: Whenever the motor operated valve is required to be OPERABLE.

ACTION:

With the thermal overload protection for one or more of the above required valves not bypassed continuously or under accident conditions, as applicable, by an OPERABLE integral bypass device, take administrative action to continuously bypass the thermal overload within 8 hours or declare the affected valve(s) inoperable and apply the appropriate ACTION statement(s) for the affected system(s).

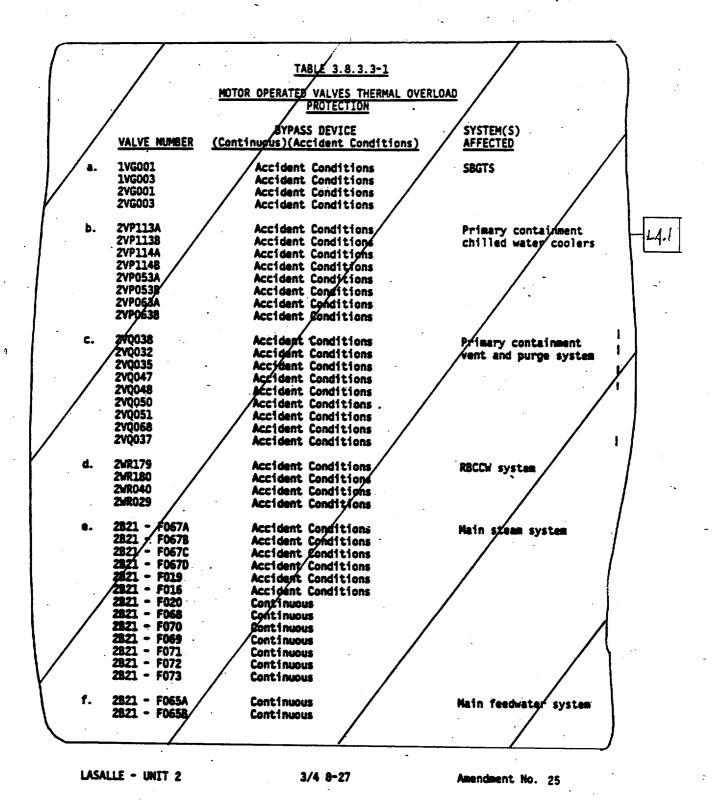
SURVEILLANCE REQUIREMENTS

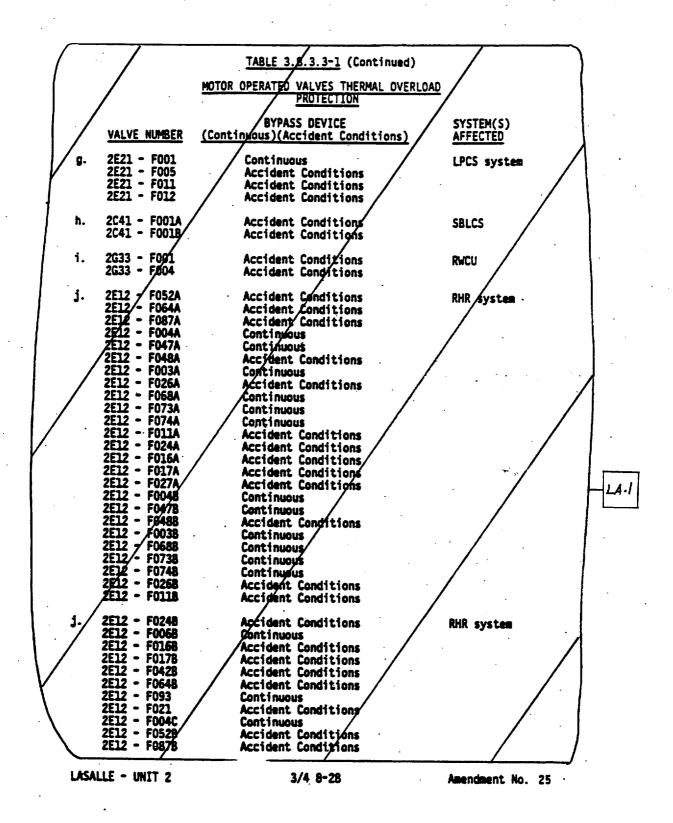
4.8.3.3.1 The thermal overload protection for the above required valves shall be verified to be bypassed continuously or under accident conditions, as applicable, by an OPERABLE integral bypass device by the performance of a CHANNEL FUNCTIONAL TEST of the bypass circuitry for those thermal overloads which are normally in force during plant operation and bypassed under accident conditions and by verifying that the thermal overload protection is bypassed for those thermal overloads which are continuously bypassed and temporarily placed in force only when the valve motors are undergoing periodic or maintenance testing:

LA.I

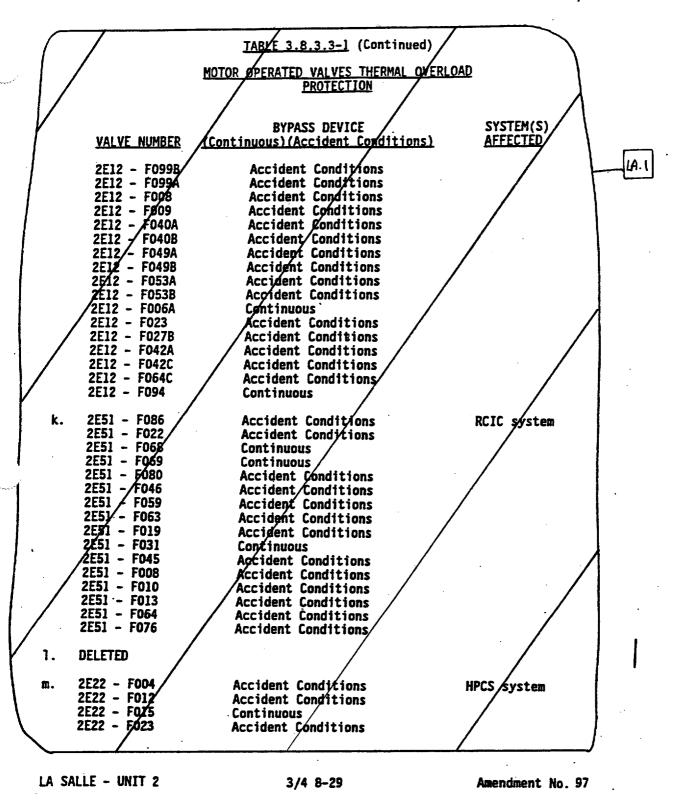
- a. At least once per 18 months, and
- b. Following maintenance on the motor starter.
- 4.8.3.3.2 The thermal overload protection for the above required valves which are continuously bypassed shall be verified to be bypassed following testing during which the thermal overload protection was temporarily placed in force.

Amendment No. 78





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Page 9 . f 9

REACTOR PROTECTION SYSTEM ELECTRIC POWER MONITORING

LIMITING CONDITION FOR OPERATION

1.8.3.6.2 3.8.3.4 Two RPS electric power monitoring assemblies for each inservice RPS MG set or alternate power supply shall be OPERABLE.

APPLICABILITY: At all times. |L.I

ACTION:

ACTION A

a. With one RPS electric power conitoring assembly for an inservice RPS

MG set or alternate power supply inoperable, restore the inoperable

Over significating assembly to OPERABLE status within 72 hours or

remove the associated RPS MG set or alternate power supply from

service.

Ail

ACTION 8

b. With both RPS electric power monitoring assemblies for an inservice

RPS MG set or alternate power supply inoperable, restore at least

one electric power monitoring assembly to OPERABLE status within

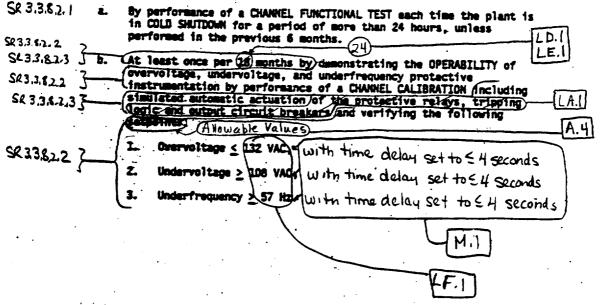
L2 I hour possesses of remove the associated RPS MG set or alternate power supply from service.

Add Proposed ACTION C A3

SURVEILLANCE REQUIREMENTS

Add Proposed ACTIONS D. F. wide L. 3

4.8.3.4 The above specified RPS electric power monitoring assemblies shall be detarmined OPERABLE:



LA SALLE - UNIT 2

3/4 8-31

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3/4.9 REFUELING OPERATIONS

3/4.9.1 REACTOR MODE SWITCH

A.I

	LIMITING CONDIT	ION FOR OPERATION		
•	.3.9.1 The reac	tor mode switch shall b	e OPERABLE and locked in e switch is locked in the	
pplicability	/a. A con	and the same of th	ithdrawn unless the Refu	el position
Applicability LCO 3.9.1 —	ម្រាជា	i ketuel position inter	In-vessel fuel of performed using equipment lock unless at least the ABLE for such equipment.	ent associated
SR 3.9.1.1	<i>1</i> —	ll rods in. lefuel platform position lefuel platform (loists) lervice platform hoist i	ue]-loaded.	
	APPLICABILITY:	OPERATIONAL CONDITION !	A.7	
	ACTION:	1A.5	<u>Г—[Д.Ы</u>	See ITS 3.92)
	b. With t	on as specified, suspen witch in the Shutdown o	k inoperable lock the r	eactor mode
Acnon A	. Jundai	ny of the above require able, suspend CERE ALTE operable Refuel positio	d Refuel position equipment	est intenlects
Ĺ	F Spe Special Te	AL St Exceptions 3/10.1 An	d 2/10 A	Moved to ITS 3.10.1)
	The reactor/sh in the reactor /tensioned or w	afl/be mai/stained in DP vessel with the vessel ith the head namoved. \(\)	ERATIONAL/CONDITION 5/ who head clasure polts Jess	than fully A.7
	position to te rods are verif	st the switch interlock	in the Run or Startup/Ho functions provided that erted by a second license the unit technical staff	all control A.8
	•			

LA SALLE - UNIT 2

3/4 9-1

Amendment No. 53

3/4.9 REFUELING OPERATIONS

3/4.9.1 REACTOR MODE SWITCH

LIMITING CONDITION FOR OPERATION

- 3.9.1 The reactor mode switch shall be OPERABLE and locked in the Shutdown or Refuel position. When the reactor mode switch is locked in the Refuel position:
 - a. A control rod shall not be withdrawn unless the Refuel position one-rod-out interlock is OPERABLE.
 - b. CORE ALTERATIONS shall not be performed using equipment associated with a Refuel position interlock unless at least the following Refuel position interlocks are OPERABLE for such equipment.
 - 1. All rods in.
 - 2. Refuel platform position.
 - 3. Refuel platform hoists fuel-loaded.
 - 4. Service platform hoist fuel-loaded.

APPLICABILITY: OPERATIONAL CONDITION 5x#.

ACTION:

a. With the reactor mode switch not locked in the Shutdown or Refuel position as specified, suspend CORE ALTERATIONS and lock the reactor mode switch in the Shutdown or Refuel position.

b. With the one-rod-out interlock inoperable, lock the reactor mode switch in the Shutdown position.

c. With any of the above required Refuel position equipment interlocks inoperable, suspend CDRE ALTERATIONS with equipment associated with the inoperable Refuel position equipment interlock.

LCO 3.10.1

See Special Test Exceptions 3.10.1 and 3.10.3.

The reactor shall be maintained in OPERATIONAL CONDITION 5 whenever fuel is in the reactor vessel with the vessel head closure bolts less than fully tensioned or with the head removed.

position to test the switch may be placed in the Run or Startup/Hot Standby position to test the switch interlock functions provided that all control rods are verified to remain fully inserted by a second licensed operator of other sechnically qualified member of the unit technical staff.

(in core cells containing one at more tue) assemblies.

add proposed LCO 3.10.1.b

add proposed ACTION and Surveillance Reguments.

LA SALLE - UNIT 2

3/4 9-1

mendment No. 53

See Its 3.9.1 and 3.9.2

Page 4 of 4

A.I

3/4.9 REFUELING OPERATIONS

3/4.9.1 REACTOR MODE SWITCH

	LIMITING	CONDITION FOR OPERATION
	Kerue, bo	he/readtor mode switch shall be OPERABLE and/locked for the Shutdown or opition. When the reactor mode switch is locked in the Refuel position: Covered by SR 39.2.1
Applicability LCO 3.9.	Z {a.	A control rod shall not be withdrawn unless the Refuel position one-rod-out interlock is OPERABLE.
	b.	CORE ALTERATIONS shall not be performed using equipment associated with a Refuel position interlock unless at least the following Refuel position interlocks are OPERABLE for such equipment.
		1. All rods in. 2. Refuel platform position. 3. Refuel platform hoists fuel-loaded. 4. Service platform hoist fuel-loaded.
	APPLICABI	LITY: OPERATIONAL CONDITION STATE
	ACTION:	LA.5 - L.1
ACTION	^ 	with the reactor mode switch not locked in the Shutdom for Refuel position as specified, suspend CORE/ALTERATIONS and lock the reactor [1-7] mode switch in the Shutdow of Refuel position.
ACTION	A <u>b.</u> {	With the one-rod-out interlock inoperable, lock/the peactor mode 1.2 switch in/the Shutdown position/.
	c.	With any of the above required Refuel position equipment interlocks inoperable, suspend CORE ALTERATIONS with equipment associated with the inoperable Refuel position equipment interlock. Sec. 175 3.9.1 A.3
,		Moved to ITS 3.10.1 HA.7
Ĺ		Fiel/Test Exceptions 3.10.1 and 3/10.3
	tension	reactor yessel with the vessel head closure bolts less than fully A.G.
		n to test the switch may be placed in the Run or Startup/Hot Standby n to test the switch interlock functions provided that all control e verified to remain fully inserted by a second licensed operator or echnically qualified member of the unit technical staff.
		(moved to ITS 3.10.1) (A.7)
	•	

LA SALLE - UNIT 2

3/4 9-1

Amendment No. 53

SR 3.9.1.1

SURVEILLANCE REQUIREMENTS

4.9.1.1 The reactor mode switch shall be verified to be locked in the Shutdown or Refuel position as specified:

- a. Within 2 hours prior to:
 - Beginning CORE ALTERATIONS, and
 - Resuming CORE ALTERATIONS when the reactor mode switch has been unlocked.

|A.Z|

At least once per 12 hours. 1.2

4.9.1.2 Each of the above required reactor mode switch Refuel position interlocks shall be demonstrated OPERABLE by performance of a CHANNEL FUNCTIONAL TEST within 24 hours gride to the start of and at least once per 7 days, during control rod withdrawel or CORE ALTERATIONS as applicable. In-vessel movement

4.9.1.3 Each of the above required reactor mode switch Refuel position / interlocks that is affected shall be demonstrated OPERABLE by peformance of a CHAMBLE FUNCTIONAL/TEST prior to resuming control rod vithdrawal or CORE ALTERATIONS, as applicable, following repair, smintenance or replacement of any component that could affect the Refuel position interlock.

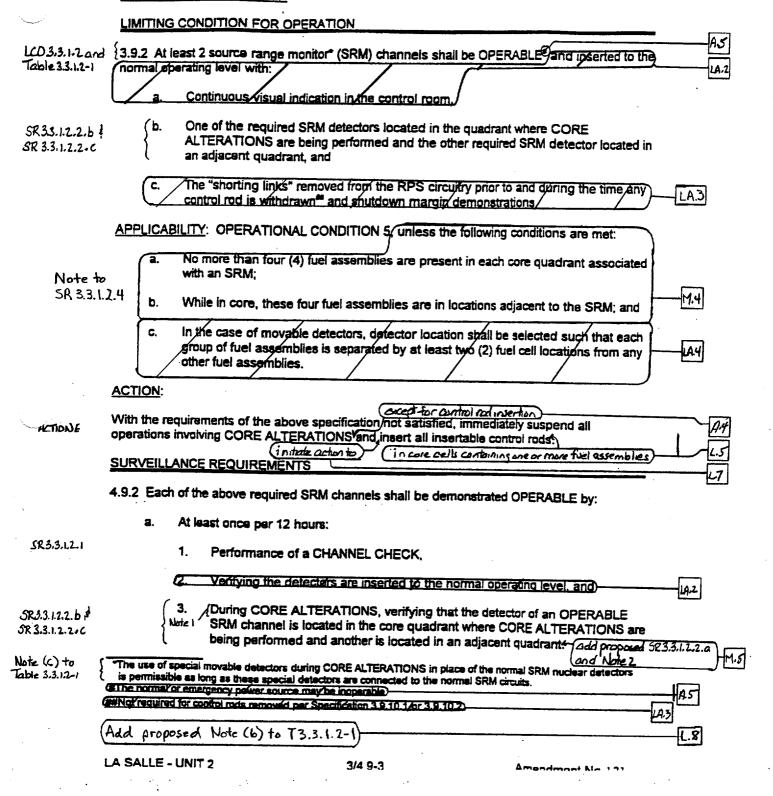
See ITS 3.9.21

SURVEILLANCE REQUIREMENTS

•	4.9.1.1 The reactor mode switch shall be verified to be locked in the Shunkdown L.I
. (Refuel position as specified:
SR 3.9.2.1—	a. /Within/2 hours/prior to: 1. Reginning CORE ALTERATIONS, and
	2. Resuming CORE ALTERATIONS when the reactor mode switch has been unlocked.
	b. At least once per 12 hours.
58.3.7.2.2	4.9.1.2 Each of the above required reactor mode switch Refuel position interlocks shell be demonstrated OPERABLE by performance of a CHANNEL FUNCTIONAL TEST within 24 hours prior to the start of and at least once per 7 days during control rod withdrawal or CORE ALTERATIONS, as applicable. See 175 3.9.1 A.3
	4.9.1.3 Each of the above required reactor made switch/Refuel position interlocks that is affected shall be demonstrated OPERABLE by paformance of a CHANNEL FUNCTIONAL/TEST prior to resuming control rod withdrawal or CORE ALTERATIONS, as applicable following repeir, maintenance or replacement of any component that could affect the Refuel position interlock.
ا ماران ماران	Add proposed Note to SR 3.9.2.2 L.4

A CALLE: - IMITE 4

3/4.9.2 INSTRUMENTATION



A.I

REFUELING OPERATIONS

SURVEILLANCE REQUIREMENTS (Continued) Add proposed SNR determination and Note Performence of a CHANNEL FUNCTIONAL TEST: Within 24 hours prior to the start of CORE ALPERATIONS, SR 3.3.1.2.5 At least once per 7 days. Verifying that the channel count rate is at least 0.7 cps#: Prior/to control rod/withdrawal, 5R3.3.1.2.4 Prior to and at least once per 12 hours during CORE ALTERATIONS, At Teast once per 24 hours. Verifying that the RPS circuitry "shorting/links" have been rewithin a hours prior to and at least once per 12 hours during: LA.3 The time any confirol rod is withdrawn.## Shutdown mergin demonstrations Add proposed SR 3.3.1.2.7

SR 3.3.1.2.4 Sprovided signal-to-noise ratio is > 2. Otherwise, 3 cps.

What required for contpol rods removed per Specification 3.9/10.1 or 8.9.10.2/ [LA.3]

LA SALLE - UNIT 2

REFUELING OPERATION	CONS	ATI	ER	OP	ING	JEL	REFL	
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A.I

3/4.9.3 CONTROL ROD POSITION

	LIMITING CONDITION FOR OPERATION
.co 3.9-3	-{3.9.3 All control rods shall be inserted. (1) -[A.2]
	APPLICABILITY: OPERATIONAL CONDITION 5, during CORE ALTERATIONS.
•	ACTION:
ACTION A	With all control rods not inserted, suspend all other CORE ALTERATIONS, except that one control rod may be withdrawn under control of the reactor mode switch Refuel position one-rod-out interlock.
	SURVEILLANCE REQUIREMENTS
	(4.9.3 All control rods shall be verified to be inserted, except as above specified:
SR 3.9.3.1	a. Within 2 hours prior to. 1. The start of CORE ALTERATIONS.
	2: The withdrawal of one control rod under the control of the reactor mode switch Refuel position one rod-out interlock. A.2
	b. At least once per 12 hours.

* Except control y	ods removed per Speci	#1cation 3.9.10/	1 or/3.9.70.2. A.2
See Special/Test	Exception 3.10.3.		
		A.3	

LA SALLE - UNIT 2

3/4.9.4 DECAY TIME

LIMITING CONDITION FOR OPERATION

3.9.4 The reactor shall be subcritical for at least 24 hours.

APPLICABILITY: OPERATIONAL CONDITION 5, during movement of irradiated fuel in the reactor pressure vessel.

ACTION:

With the reactor subcritical for less than 24 hours, suspend all operations involving movement of irradiated fuel in the reactor pressure vessel.

SURVEILLANCE REQUIREMENTS

4.9.4 The reactor shall be determined to have been subcritical for at least 24 hours by verification of the date and time of subcriticality prior to movement of irradiated fuel in the reactor pressure vessel.

LA.

LA SALLE - UNIT 1

3/4.9.5 COMMUNICATIONS

LIMITING CONDITION FOR OPERATION

3.9.5 Direct communication shall be maintained between the control mom and refueling platform personnel.

APPLICABILITY: OPERATIONAL CONDITION 5, during CORE ALTERATIONS.

ACTION:

When direct communication between the control room and refueling platform personnel cannot be maintained, immediately suspend CORE ALTERATIONS.

2.1

SURVEILLANCE REQUIREMENTS

4.9.5 Direct communication between the control room and refueling platform personnel shall be demonstrated within one hour prior to the start of and at least once per 12 hours during CORE ALTERATIONS.

LA SALLE - UNIT 2

3/4 9-7

Amendment No 121

Page 2 of 2

3/4.9.6 CRANE AND HOJST

LIMITING CONDITION FOR OPERATION

3.9.6 All cranes and hoists used for handling fuel assemblies or control rods within the reactor pressure vessel shall be OPERABLE.

APPLICABILITY: During handling of fuel assemblies or control rods within the reactor pressure vessel.

ACTION:

With the requirements for crane and hoist OPERABILITY not satisfied, suspend use of any inoperable crane or hoist from operations involving the handling of control rods and fuel assemblies within the reactor pressure vessel after placing the load in a safe condition.

SURVEILLANCE REQUIREMENTS

4.8.6 Each crane or hoist used for handling of control rods or fuel assemblies within the reactor pressure vessel shall be demonstrated OPERABLE within days prior to the start of such operations with that crane or hoist by

- a. Demonstrating operation of the overload cutoff when the load exceeds:
 - 1. For the fuel hoist:
 - (4) 1600 +100/-0 pounds with the NF500 mast.
 - b) 1200 ±50 pounds with the 762E974 mast.
 - 2. 1000 \pm 50 pounds for the auxiliary hoist.
- Demonstrating operation of the loaded interlock when the load exceeds:
 - 1. For the fuel hoist:
 - a) 700 +50/-0 poinds with the NF500 mast.
 - b) 485 +50 pounds and 550 +50 pounds with the 762E974 mast.
 - 2. 400 ± 50 pounds for the auxiliary hoist.
- c. Demonstrating operation of the fuel hoist downtravel stop when downtravel exceeds 54 feet below the platform rails.
- d. Demonstrating operation of the fuel hoist and auxiliary hoist up-travel stops when the grapple is lower than or equal to 8 feet below the platform rails.
- e. Demonstrating operation of the fuel hoist slack cable cutoff when the hoist is unloaded.

LA SALLE - UNIT 2

3/4 9-8

Amendment No. 67

3/4.9.7 CRANE TRAVEL

LIMITING CONDITION FOR OPERATION

- 3.9.7 Loads over the refueling floor, and over the spent fuel storage pool racks when fuel assemblies are in the rapks, shall be restricted as follows:
 - a. All movements of a spent fuel shipping cask shall be controlled by the critical "L" path coptrol system of the Reactor Building crane.
 - b. Loads in excess of 1250 pounds shall not travel over the spent fuel storage pool racks.
 - C. One fuel assembly may be moved over the spent fuel storage pool racks provided that it is not raised above 2 foot clearance over the racks.

APPLICABILITY: At all times.

ACTION:

With the requirements of the above specification not satisfied, place the crane load in a safe condition. The provisions of Specification 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

4.9.7 The spent fuel shipping cask critical "L" path control system of the Reactor Building crane shall be demonstrated OPERABLE within 7 days prior to and at least once per 7 days during spent fuel shipping cask movement over the refueling floor.



LA SALLE - UNIT 2

A .1

REFUELING OPERATIONS

3/4.9.8 WATER LEVEL - REACTOR VESSEL

	LIMITING CONDITION FOR OPERATION
LCO 3.9.6-	APPLICABILITY: During hand ing of fuel assembles or control rods within the reactor pressure vessel while in OPERATIONAL/CONDITION 5 when the fuel A.3 assembles being handled or the fuel assembles seated within the reactor
•	ACTION: New fuel requirements only Moved to 1753.9.7
ACTION A	With the requirements of the above specification not satisfied, suspend all operations involving handling of fuel assembles or control rods within the reactor pressure vessel after/placing all fuel assembles and control rods within the a same condition.
	SURVEILLANCE REQUIREMENTS
SR 39.6.1 -	(4.9.8 The reactor vesse) water level shall be determined to be at least its minimum required depth within 2 hours prior to the start of and at least once per 24 hours during handling of fuel assemblies or control rods within the reactor pressure vessel. New fuel requirements only Moved to ITS 3.9.7

LA SALLE - UNIT 2

	REFUELING OPERATIONS	<u> A.IJ</u>
naura ari	3/4.9.8 WATER LEVEL - REACTOR	VESSEL
	LIMITING CONDITION FOR OPERATIO	N .
	(23 feet) (L.1)	
LCO 3.9.7.	3.9.8 At least (22/feet) of wate reactor pressure vessel (7/a/nge).	r shall be maintained over the top of the [L.1] The irradiated fuel assemblies seated within
	APPLICABILITY: During handling	of Afuel assemblies or control rods within the
		fuel assemblies seated within the reactor
	ACTION:	(new)
ACTION A -	(With the requirements of the ab	ove specification not satisfied, suspend all factorial f
	reactor pressure vessel after p	lacing all/fuel/assemblies/and/control rods in
		LA-1
•		•
·	SURVEILLANCE REQUIREMENTS	
		-[L.Z]
	(4.9.8 The reactor vessel water	level shall be determined to be at least its
SR 3.9.7.1-	per 24 hours during handling of	Nours prior to the start of and at least once fuel assemblies or control rods within the
	(reactor pressure vessel.	

3/4.9.9 WATER LEVEL - SPENT FUEL STORAGE POOL

•	LIMITING COMDITION FOR OPERATION
LC0 3.7.8	3.9.9 At least 2 /ast of water shall be maintained over the top of active— [Tuel in irradiated fuel assembles seated in the spent fuel storage pool racks.] [A3]
A.Z	APPLICABILITY: Whenever irradiated fuel assemblies are in the spent fuel
ACTION A	ACTION: In the Spent fuel Storage pool with irradiated fuel assemblies seated in the Spent fuel assemblies seated in the Spent fuel storage pool.) With the requirements of the above specification not satisfied, suspend all movement of fuel assemblies and come operations with loads in the spent fuel
	storage pool area after placing the fuel assemblies and crane load in a safe- condition. The provisions of Specification 3.0.3 are not applicable.
	SURVEILLANCE REQUIREMENTS
	4.9.9 The water level in the spent fuel storage pool shall be determined to
SR 3.7.8.1	be at least at its minimum required depth at least once per 7 days.

3/4.9.10 CONTROL ROD REMOVAL

SINGLE CONTROL ROD REMOVAL

<u>u</u>	MITING	CONDITION FOR OPERATION
LCD 3,10,3	y be m last the led com	One control rod and/or the associated control rod drive mechanism amoved from the core (and/or reactor pressure vesse) provided that at a following requirements are satisfied until a control rod and associated rol rod drive mechanism are reinstalled and the control rod is fully in the cope.
Apolicability	a. •	The reactor mode switch is OPERABLE and locked in the Shutdown See ITS 3.10.4> position or in the Refuel position per Table 1.2 and Specification
(Co3.10.3.C.2	<u>6.</u>	The source range monitors (SRM) are OPERABLE per Specification A.3 3.9.2 A.3 The SHUTDOWN MARGIN requirements of Specification 3.1.1 are satisfied,
		1. May be assumed to be the highest worth control rod required to be assumed to be fully withdrawn by the SHUTDEWN MARGIN test, and 2. Need not be assumed to be immovable or uptrippable.
(Co3,10.3.6)	2 d.	All other control rods in a five-by-five array cantered on the control rod being removed are inserted and electrically or [A.] [A.] [A.]
LCO 3.10.3. a AF	e. PLICABI	All other control rods are inserted. [LITY: OPERATIONAL CONDITIONS 4 and 5] Sec IIS 3.10.4>
ACTIONS OF	the co	requirements of the above specification not satisfied, suspend removal sutrol red and/or associated control red drive sechanism from the core sector pressure vessel and shritiate action to satisfy the above unts.

LA SALLE - UNIT 2

3/4.9.10 CONTROL ROD REMOVAL

SINGLE CONTROL ROD REMOVAL

THITTING	CONDITION	END	MOCDATION
	LUNUI I LUN	PUK.	UPEKALIUR

3.9.10.1 One control rod and/or the associated control rod drive mechanism LC03.15.4 may be removed from the core and/or reactor pressure vessel provided that at least the following requirements are satisfied/until a control rod and associated control rod drive schanism are reinstalled and the control rod is fully inserted in the core. The reactor mode switch is OPERABLE and locked in the Shutdown position or in the Refuel position per Table 1.2 and Specification The source range monitors (SRM) are OPERABLE pair Specification 3.9.2. LCD 3.10.4.C The SHUTDOWN MARGIN requirements of Specification 3.1.1 are satisfied, except that the control rod selected to be removed: May be assumed to be the highest worth control rod/required to be assumed to be fully withdrawn by the SHUTDOWN MARGIN test. 4.4 Need not be assumed to be immovable or untrippéble. 203.10.4.d All other control rods in a five-by-five array cantered on the control rod being removed are (inserted) and electrically or 600 3.18.4.a) (hydraulically) disarmed. add proposed LCD3.10.4.c Hiest parts and LCD2.10.4.A LC0310.4.a All other control rods are inserted. OPERATIONAL CONDITIONS (and 55 LSee 1753.10.37 ACTION: With the requirements of the above specification not satisfied, suspend removal ACTIONA of the control red and/or associated control red drive mechanism from the core and/or reactor pressure vessel and similate action to satisfy the above .

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add proposed Required Action A.2.1

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SURVEILLANCE REQUIREMENTS

	•	
SR3.1D.3.2	4.9.10.1 Within 4 hours prior to the start of removal of a control rod and/or the associated control rod drive mechanism from the core and/or reactor pressure vessel and at least once per 24 hours thereafter uptil a control rod and associated to the core and the c	_
<i>9</i> 23.10.3.3	etad control rod drive machanism are reinstalled and the control rod /s	3
	inserted in the core, verify that:	7
SR3.10.3.1	a. The reactor mode switch is OPERABLE and Tocked in the Shutdown position of (ar the Refue) position with the "one rod out" Refuel	
7 2.10.31	nesition interlock OPERABLE per Specification 3.9.1.	4
	6. The SIM channels are OPERABLE per Specification 3.9.2	1.4>
St 3.10.3.1	c. The SHUTDOWN MARGIN requirements of Specification 3.1.1 are satisfied per Specification 3.9.10.1.c	
	add approved Se 3.10.3.2 Note	
5R310.3.2	d. VAII other control rods in a five-by-five array control on the control rod being removed are inserted and electrically or	7
5R 2.10.3.3	Mydrau L/cally disarmed, and	1
SR3.10.3.5	e. All other control rods are inserted.	
	< (add proposed SR 3.10,3.1 and SR 3.10,3.4)	

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fage 5016

SURVEILLANCE REQUIREMENTS

4.9.10.1 Within 4 hours prior to the start of penoval of a control rod and/or the associated control rod drive mechanism from the core and/or reactor pressure versal and/at least once per 24 hours thereafter until a control rod and associated control rod drive mechanism are reinstalled and the control rod is inserted in the core, verify that: SR3,10.4.1 SR3.10.4.2 The reactor mode switch is OPERABLE and locked in the Shutdown position or in the Refuel position with the "one rod out" Refuel position interlock OPERABLE per Specification 3.9.1. MJ The SEM channels are OPERABLE per Specification 3.9.2. A3 The SHUTDOWN MARGIN requirements of Specification 3.1.1 are satisfied SR310.4.4 per Specification 3.9.10.1.c 'All other control rods in a five-by-five array centered on the SR3.10.4.2 control and being removed are inserted and electrically/or mydrau/cally/disersed, and SR3.10, 4.1) All other control rods are inserted. SR 3.10.4.1 add proposed SR3.10.4.3 and SR3.10.4.5

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MULTIPLE CONTROL ROD REMOVAL

LIMITING CONDITION FOR OPERATION

3.9.10.2 Any number of control rods and/or control rod drive mechanisms may be removed from the core and/or reactor pressure vessel provided that at least the following requirements are satisfied until all control rods/and control roof drive mechanisms are reinstalled and all control rods are inserted in the core./ The reactor mode switch is OPERABLE and locked in the Shutgown position or in the Refuel position per Specification 3.9.1, except that the Refuel position "one-rod-out" interlock may be bypassed, as 100310.5 required, for those control rods and/or control rod drive mechanisms to be-removed, after the fuel assemblies have been removed as specified below. The source range monitors (SRM) are OPERABLE per Specification A3 The SHITTOWN MARCIN requirements of Specification 3.1.1 are satisfied. All other control rods are either inserted or have the surrounding 110.5 b four fuel assemblies removed from the core call. The four fuel assemblies surrounding each control rod or control rod drive mechanism to be removed from the core and/or reactor vessel LCO 3.10.5.a are removed from the core call. N. add proposed LCD3.10.5.C

APPLICABILITY: OPERATIONAL CONDITION 5.

with LCO3.9.4.0/LCO3.9.5 not met

ACTION:

ACTION A

With the requirements of the above specification not satisfied, suspend removal of control rods and/or control rod drive mechanisms from the core and/or reactor pressure vessel and initiate action to satisfy the above requirements.

Gold proposed Reguned Action A.2.1

A6

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SURVEILLANCE REQUIREMENTS 4.9.10.2.1 Within 4 Mours prior to the start of removal of control rods and/or centrol rod grive sechanisms from the core and/or reactor pressure L2 SR3.10.5.1 vessel and at least once per 24 hours thereafter until all control rods and 3R3.105.2 control rod drive mechanisms are reinstalled and all control rods are inserted in the core, verify that: The reactor mode switch is OPERABLE and locked in the Shutdown ال position or in the defuel position per/Specification 3.9.1. The SRM channels are RPERABLE per Specification/3.9.2. The SHUTDOWN MARGIN requirements of Specification 3.1.1/are satisfied. All other control .rods are either inserted or have the surrounding SR310.5.2 four fuel assemblies removed from the core call. The four fuel assemblies surrounding each control rod and/or control rod drive mechanism to be removed from the core and/or reactor vessel SR 3.10.5.1 are removed from the core cell. 4.9.10/2.2 Following replacement of all control rods and/or control rod drive mechanisms removed in accordance with this specification, perform a functional test of the "one-rod-out" Refuel position interlock, if this function had been ypassed. proposed SR 3.10.5, MI

3/4 9-15

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3/4.9.11 RESIDUAL HEAT REMOVAL AND COOLANT CIRCULATION

HIGH WATER LEVEL

	. 8.6.5 077	
a. One OPERABLE RHR plast exchanger.	LCO 3.9.8 (3.9.11.1 At least one shutdown cooling mode loop of the residual heat removal (RHR) system shall be OPERABLE and in operation with at least:	CIPITING CONDITION FOR OPERATION

when irradiated fuel is in the reactor an or equal to 22 feet above the top

STIP:

ACTIONC	ACTION B -	ACTION A
b. With no RHR shutdown cooling mode loop in operation, within 1 hour establish reactor coolant circulation by an alternate method and monitor reactor coolant tamperature at least once per hour.	Otherwise, suspend all operations involving an increase in the reactor decay heat load and establish SECONDARY CONTAINMENT INTEGRITY (STUDIO 4 hours.) [A.4]	a. (With no MHR shutdown cooling mode loop OPERABLE, within I hour and at least once per 24 hours thereafter, demonstrate the operability of at least one alternate method capable of decay heat removal.
	Į	<u>[4</u>

REQUIREMENTS

SR 3,9,8. Required Action Colf 4.9.11.1 At least one shutdown cooling mode system or alternate method shall be verified reactory copings; at least once per 12 hours. SURVETILIANCE to be in operation and direct LA.Z

100 3.9.8 She normal of empreend power source say be inoperable. The shutdown cooling pump be re pved from operation for up to 2 hours per 1A.5

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LOW WATER LEVEL

LIMITING CONDITION FOR OPERATION
- A.Z
LCO 3.9.9 3.9.11.2 Two shutdown cooling mode loops of the residual heat removal (RHR) system shall be OPERABLE and at least one loop shall be in operation, with each loop consisting of at least:
system shall be OPERABLE and at least one loop shall be in operation, while LA.
One OPERABLE RHR pump, and
b. One OPERABLE RHR Nest exchanger/
APPLICABILITY: OPERATIONAL CONDITION 5, when irrediated fuel is in the reactor vessel and the water level is less than 22 feet above the top of the reactor pressure vessel flange.
ACTION:
a. (With less than the above required shutdown cooling mode loops of the RHR system OPERABLE, within 1 hour and at least once per 24 hours
ACTION Athereafter, demonstrate the operability of at least one alternate method capable of decay heat removal for each inoperable RHR shut-
down coeling mode loop.
ACTION C with no RHR shutdown cooling mode loop in operation, within 1 hour establish reactor coolant circulation by an alternate method and monitor reactor coolant temperature at least once per hour.
(Add proposed ACTION B) [M.1]
SURVEILLANCE REQUIREMENTS
Required Achin C.I
SR 3.9.1 system or alternate method shall be verified to be in operation and circulating rescion gool antiat least once per 12 hours.
[A.2]
LCO 3.9.9 The shutdown cooling pump may be removed from operation for up to 2 hours per 8-hour period.
NOTE The normal of emergency power/source may be importable for each/loop. A.2

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3/4.10 SPECIAL TEST EXCEPTIONS

3/4.10.1 PRIMARY CONTAINMENT INTEGRITY

LIMITING CONDITION FOR OPERATION

3.10.1 The provisions of Specifications 3.6.1.1, 3.6.1.3 and 3.9.1 and Table 1.2 may be suspended to permit the reactor pressure vessel closure head and the drywell head to be removed and the primary containment air lock doors to be open when the reactor mode switch is in the Startup position during low power PHYSICS TESTS with THERMAL POWER less than 1% of RATED THERMAL POWER and reactor coolant temperature less than 200°F.

APPLICABILITY: OPERATIONAL CONDITION 2, during low power PHYSICS TESTS.

ACTION:

With THERMAL POWER greater than or equal to 1% of RATED THERMAL POWER or with the reactor coolant temperature greater than or equal to 200°F, immediately place the reactor mode switch in the Shutdown position.

SURVEILLANCE REQUIREMENTS

4.10.1 The THERMAL POWER and reactor coolant temperature shall be verified to be within the limits at least once per hour during low power PHYSICS RESTS.

MI

3/4.10.2 ROD WORTH MINIMIZER

	LIMITING CONDITION FOR OPERATION
LCD 3.10.6	3.10.2 The sequence constraints imposed on control rod groups by the Rod Worth Minimizer (RWM) per Specification 3.1.4.1 may be suspended by means of bypassing the RWM for the following tests, provided that control rod movement prescribed for this testing is verified by a second licensed operator, or other technically qualified member of the unit technical staff who is present at the reactor a. Shutdown margin demonstrations, Specification 4.1.1.
	b. Control rod scram, Specification 4.1.3.2.
	c. Control rod friction measurements.
	d. Staftup Test Program with the THERMAL POWER less than 10% of RATED MAIL POWER.
	APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2. with LCO3.16 not met
•	ACTION:
ACTION A	With the requirements of the above specification not satisfied. Verify that The RMM is OPERABLE per Specification 3.1.4.1.
	SURVEILLANCE REQUIREMENTS
5R3.10;6.1	4.10.2 When the sequence constraints imposed on control rod groups by the RWM are bypassed, verify;
	a. DELETED
SR3.10.6.1	b. That movement of control rods (rom 75% ROU DENSITY to the AMM low) power setpoint is limited to the approved control rod withdrawal sequence during scram and friction tests,
523.ID.6.1	c. That movement of control rods during shutdown margin demonstrations is limited to the prescribed sequence per Specification 3.10.3, and
SR3.10.6.1	d. Conformance with this specification and test procedures by a second licensed operator or other technically qualified member of the unit technical staff.
	all proposed SR3.10.6.2

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3/4.10.3 SHUTDOWN MARGIN DEMONSTRATIONS

	LIMITING CONDITION FOR OPERATION
(203.10.7	3.10.3 The provisions of <u>Specification 3.9.1. Specification 3.9.3 and</u> Table 1.2 may be suspended to permit the reactor mode switch to be in the Startup position and to allow more than one control rod to be withdrawn for shutdown margin demonstration, provided that at least the following requirements are satisfied.
•	a. The source range monitors are OPERABLE with the RPS circuitry "shorting AS links" removed per Specification 3.9.2.
LCD 3.10.7.6	b. The rod worth minimizer is OPERABLE per Specification 3.1.4.1 and is programmed for the shutdown margin demonstration, or conformance with the shutdown margin demonstration procedure is verified by a second licensed operator or other technically qualified member of the unit technical staff.
co 3.10.7.d	c. The "rod-out-notch-override" control shall not be used during out-of-sequence movement of the control rods. Add proposed LCo 3:10.7: a A4
_co3.10.7.e	d. Me other CORE ALTERATIONS are in progress. add proposed LCD 3. b. 7.f) M.I
	APPLICABILITY: OPERATIONAL CONDITION S, during shutdown eardin demonstrations. (with the reactor mode switch in the of
•	ACTION: Storiup/hot stondby position Aut
ACTION B	With the requirements of the above specification not satisfied, immediately place the reactor mode switch in the Shutdown or Refuel position.
	4.10.3 (Within 30 minutes prior to and at least times per 12 hours during the performance of a shutdown margin demonstration, verify that; (a. Die source range monitors are OPERABLE per Specification 3.9/2) [A.J.
OR 3.10.7.2. OR 3.10.7.3	b. The rod worth minimizer is OPERABLE with the required program per Specification 3.1.4.1 or a second licensed operator or other technically qualified member of the unit technical staff is present and verifies compliance with the shutdown demonstration procedures, and
5R 3,10,7.4	c. No other CORE ALTERATIONS are in progress. (add proposed SR 3.10.7.1 and SR3.10.7.5) [A4]
	(add proposed SR 340.7.6)

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34.10.5 OXYGEN CONCENTRATION

LIMITING CONDITION FOR OPERATION

3.10.5 The provisions of Specification 3.6.6.2 may be suspended during the performance of the Startop Test Program until 6 months after initial criticality.

APPLICABILITY: OPERATIONAL CONDITION 1.

ACTION

With the requirements of the above specification not satisfied, be in at least STARTUP within 6 hours.

SURVEILLANCE REQUIREMENTS

4.10.5 The number of months since initial criticality shall be verified to be less than or equal to 6 months at least once per 31 days during the Startup Test Program

M-1

3/4-10.6 TRAINING STARTUPS

LIMITING CONDITION FOR OPERATION

3.10.6 The provisions of Specification 3.5.1 may be suspended to permit one RHR subsystem to be aligned in the shutdown cooling mode during training startups provided that the reactor vessel is not pressurized, THERMAL POWER is less than or equal to 1% of RATED THERMAL POWER and reactor coolant temperature is less than 200°F.

APPLICABILITY: OPERATIONAL CONDITION 2, during training startups.

ACTION:

With the requirements of the above specification not satisfied, immediately place the reactor mode switch in the Shubdown position.

SURVEILLANCE REQUIREMENTS

4.10.6 The reactor vessel shall be verified to be unpressurized and the THERMAL POWER and reactor coolant temperature shall be varified to be within the limits at least once per hour during training startups

14.1

3/4.11 RADIOACTIVE EFFLUENTS

3/4.11.1 LIQUID EFFLUENTS

ITS 5.5

LIQUID HOLDUP TANKS

LIMITING CONDITION FOR OPERATION

5.5.4.6

3.11.1.1 The quantity of radioactive material contained in any outside temporary tanks shall be limited to less than or equal to the limits calculated in the ODCM.

Add Proposed ITS 5,59

APPLICABILITY: At all times.

ACTYON:

- With the quantity of radioactive material in any of the above listed tanks exceeding the above limit, immediately suspend all additions of radioactive material to the tank and within 48 hours reduce the tank contents to within the limit.
- The provisions of Specification 3.0.3 are not applicable.

LA 6

SURVEILLANCE REQUIREMENTS

5.59.6

4.11.1.1 The quantity of radioactive material contained in each of the above listed tanks shall be determined to be within the above limit by analyzing a representative sample of the tank's contents at least once par 7 days redioactive materials are being added to the tank.

LA.6 The provisions of SR3.0.2 GNE SR3.0.3 are applies ble to the Program Surveillance Frequencies.

Amendment

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	RADIOACTIVE EFFLUENTS
	3/4 11.2 GASEOUS EFFLUENTS A.T ITS 5.5
	EXPLOSIVE GAS MIXTURE
	LIMITING CONDITION FOR OPERATION add Proposed TS 5.5.9 [4.8]
5.5.9.a	3.11.2.1 The concentration of hydrogen in the main condenser offgas treatment system shall be limited to less than or equal to 4% by volume.
	APPLICABILITY: Whenever the main condenser air ejector system is in operation. ACTION: a. With the concentration of hydrogen in the main condenser offgas treatment system exceeding the limit, restore the concentration to within the limit within 48 hours.
	b. The provisions of Specification 3.0.3 are not applicable.
	LA.6
	SURVEILLANCE REQUIREMENTS
5.5.9.a	4.11.2.1 The concentration of hydrogen in the main condenser offgas treatment

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	RADIDACTIVE EFFLUENTS (A. 1)	
	MAIN CONDENSER	
	LIMITING CONDITION FOR OPERATION	
	after decay of 30 minutes A.2	
LCO 3,7.6	3.11.2.2 The release rate of the sum of the activities from the noble gases measured prior to the holdup line shall be limited to less than or equal to 3.4 x 10 ⁵ microcuries/second.	
	APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3 With any main steam line not isolated	
	ACTION: and Steam Jet air ejector (STAE) IN operation	
ACTION & -	With the release rate of the sum of the activities of the noble gases prior to the holdup line exceeding 3.4 x 10 ⁵ microcuries/second restore the release rate to within its limit within 72 hours of be in at least STARTUP with the main steam isolation valves closed within the next hours. Add proposed Required Action 5.2 L.1	
	SURVEILLANCE REQUIREMENTS (Add proposed Required Actions B.3.1 and B.3.2) [1.3]	
	1.11.2.2.1 The radioactivity rate of noble gases prior to the holdup line shall be continuously manitored in accordance with the ODEM.	
	4.11.2.2.2 The release rate of the sum of the activities from noble gases prior to the holdup line shall be determined to be within the limits of Specification 3.11.2.2 at the following frequencies by performing an isotopic Analysis of a representative sample of gases taken prior to the holdup line.	
	a. At least once per 31 days.	
	b. Within 4 hours following an increase as indicated by the off gast LA.2 pre-treatment Noble Gas Activity Monitor, of greater than 50%, after factoring out increases due to changes in THERMAL POWER level, in	
•	the nominal steady state fission gas release from the primary coolant.	<u>ہ</u>

Add proposed SR 3.7.6.1 Note

4.0 5.0 DESIGN FEATURES

4,1 <u>5.1 SITE</u>

4.1.1 EXCLUSION AREA

5.1.1 The exclusion area shall be as shown in Figure 5.1.1-1 all the land within a circle with its

A,2

LAJ

41,2 LOW POPULATION ZONE

conterat the vent stack 5.1.2 The low population zone shall be as shown in Figure 5.1.2-1. of 3,98 miles

4, 1,1 SITE BOUNDARY FOR GASEOUS EFFLUENTS

5.1.3 The site boundary for gaseous effluents shall be as shown in Figure 5.1.1-1.

4.1.1 SITE BOUNDARY FOR LIQUID EFFLUENTS

5.1.4 The site boundary for liquid effluents shall be as shown in Figure 5.1.1-1.

CONTAINMENT

CONFIGURATION

5.2.1 The primary containment is a steel lined post-tensioned concrete structure consisting of a drywell and suppression chamber. The drywell is a steel-lined post stressed concrete vessel in the shape of a truncated cone closed by a steel dome. The drywell is above a cylindrical steel-lined post-stressed concrete suppression chamber and is attached to the suppression chamber through a series of downcomer vents. The drywell has a minimum free air volume of 229,538 cubic feet. The suppression chamber has an air region of 164,800 to 168,100 cubic feet and a water region of 128,800 to 131,900 cubic feet.

DESIGN TEMPERATURE AND PRESSURE

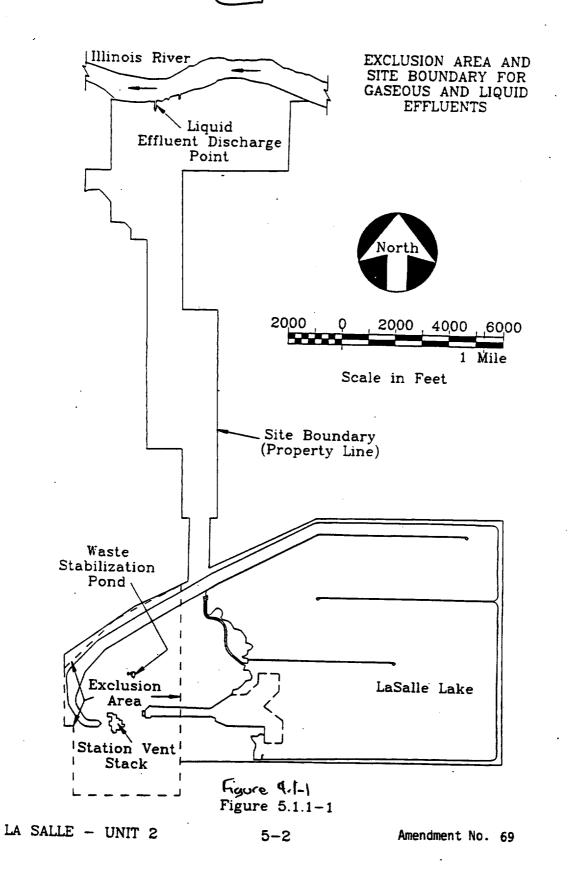
- 5.2.2 The primary containment is designed and shall be maintained for:
 - Maximum internal pressure: 45 psig. a.
 - Maximum internal temperature: drywell 348°F suppression chamber 275°F.
 - Maximum external pressure: 5 psig.
 - Maximum floor differential pressure: 25 psid, downwards 5 psid, upward.

SECONDARY CONTAINMENT

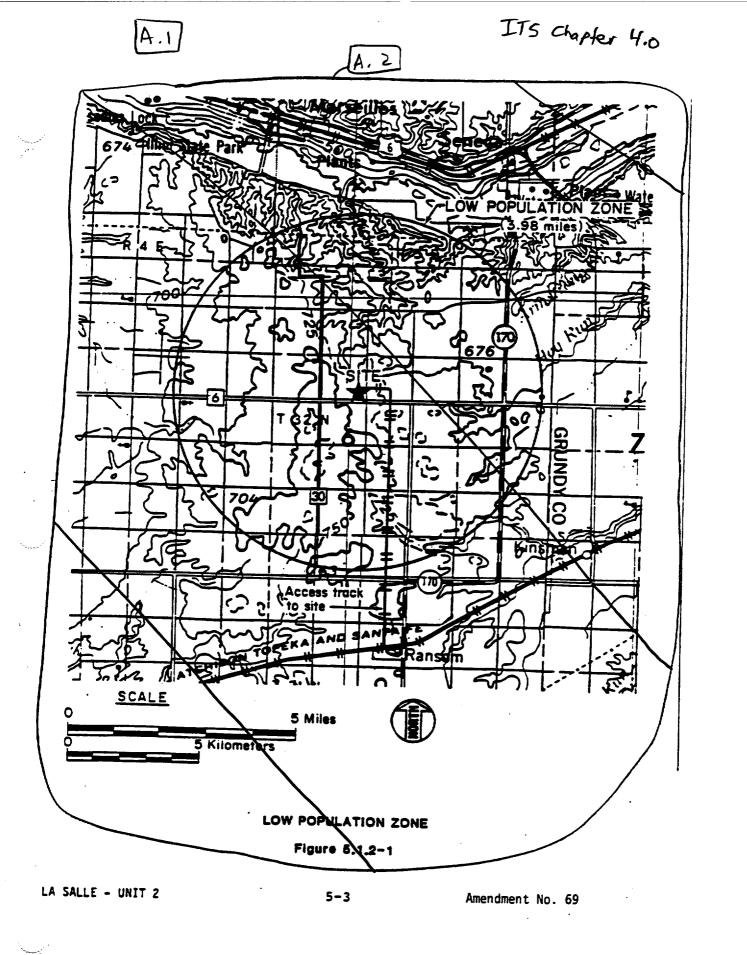
5.2.3 The secondary containment consists of the Reactor Building, the equipment access structure and a portion of the main steam tunnel and has a minimum free volume of 2,875,000 cubic feet.

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I.

DESIGN FEATURES

4,2 5.3 REACTOR CORE

4.211 FUEL ASSEMBLIES

5.3.1 The reactor shall contain 764 fuel assemblies. Each assembly shall consist of a matrix of Zircalloy fuel rods with an initial composition of natural or slightly enriched uranium dioxide (UO₂) as fuel material. The bundles may contain water rods or water boxes. Limited substitutions of Zircalloy or ZIRLO or stainless steel filler rods for fuel rods, in accordance with approved applications of fuel rod configurations, may be used. Fuel assemblies shall be limited to those fuel designs that have been analyzed with applicable NRC staff approved codes and methods and shown by tests or analyses to comply with all safety design bases. A limited number of lead test assemblies that have not completed representative testing may be placed in nonlimiting core regions.

CONTROL ROD ASSEMBLIES

4.2.2 5.3.2 The reactor core shall contain 185 cruciform shaped control rod assemblies. The control material shall be boron carbide powder (8,C) and/or hafnium metal. The control rod assembly shall have a nominal axial absorber length of 143 inches.

LA.Z

REACTOR COOLANT SYSTEM

DESIGN PRESSURE AND TEMPERATURE

5.4.1 The reactor coolant system is designed and shall be maintained:

- a. In accordance with the code requirements specified in Section 5.2 of the FSAR, wish allowance for normal degradation pursuant to the applicable Surveillance Requirements,
- b. For a pressure of:
 - 1250 psig on the suction side of the recirculation pumps.
 - 1650 psig from the recirculation pump discharge to the outlet side of the discharge shutoff valve.
 - 3. 1500 psig from the discharge shutaff valve to the jet pumps.

For a temperature of 575°F.

VOLUME

5.4.2 The total water and steam volume of the reactor vessel and recirculation system is $\sim 21,000$ cubic feet at a nominal $T_{\rm ave}$ of 533°F.

5.5 DELETED

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DESIGN FEATURES

Ц. 3 5.6 FUEL STORAGE

4.3.1 CRITICALITY

 $\mu_{3.1.1}$ The spent fuel storage racks are designed and shall be maintained with:

- a. A $k_{\mbox{eff}}$ equivalent to ≤ 0.95 when flooded with unborated water, including all calculational uncertainties and biases, as described in Section 9.1 of the FSAR.
- b. A nominal 6.26-inch center-to-center distance between fuel assemblies placed in the storage racks.

5.6.1.2 The $k_{\mbox{eff}}$ for new fuel for the first core loading stored dry in the spent fuel storage racks shall not exceed 0.95 when flooded with water.

A.4

4.3.2 DRAINAGE

5.6.2 The spent fuel storage pool is designed and shall be maintained to prevent inadvertent draining of the pool below elevation 819 feet.

4.3.3 CAPACITY

5.6.3 The spent fuel storage pool is designed and shall be maintained with a storage capacity limited to no more than 4078 fuel assemblies.

5.7 COMPONENT CYCLIC OR TRANSIENT LIMIT

5.7.1 The components identified in Table 5.7.1-1 are designed and shall be maintained within the cyclic or transient limits of Table 5.7.1-1.

moved to ITS Section 5.5 DESIGN FEATURES

(See ITS Chapter 4.0)

5.6 FUEL STORAGE

CRITICALITY

- 5.6.1.1 The spent fuel storage racks are designed and shall be maintained with:
 - a. A $k_{\mbox{eff}}$ equivalent to ≤ 0.95 when flooded with unborated water, including all calculational uncertainties and biases, as described in Section 9.1 of the FSAR.
 - b. A nominal 6.26-inch center-to-center distance between fuel assemblies placed in the storage racks.
- 5.6.1.2 The $k_{\mbox{eff}}$ for new fuel for the first core loading stored dry in the spent fuel storage racks shall not exceed 0.95 when flooded with water.

DRAINAGE

5.6.2 The spent fuel storage pool is designed and shall be maintained to prevent inadvertent draining of the pool below elevation 819 feet.

CAPACITY

5.6.3 The spent fuel storage pool is designed and shall be maintained with a storage capacity limited to no more than 4078 fuel assemblies.

5.5.5

5.7 COMPONENT CYCLIC OR TRANSIENT LIMIT (FSAR) (5.2-4)

5.7.1 The components identified in Table 6.7.1-D are designed and shall be maintained within the cyclic or transient limits of table 5.7.1-D.

HLA.7)

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ITS Chapter 4.0

The Shirt Manager shall be responsible for directing and commanding the overall operation of the facility on his shift. The primary management responsibility of the Shift Manager shall be for sake operation of the nuclear facility on his shift under all conditions.

(SEE ITS) C. The shift manning for the station shall be as shown in Figure 6.1-3.

page 3 of 4

5,2,1,4

The Shift Manager shall be responsible for directing and commanding the overall operation of the facility on his shift. The primary management responsibility of the Shift Manager shall be for safe operation of the nuclear facility on his shift under all conditions.

out wealth physics and quality assurance functions may report to the appropriate onsite manager; however, they shall have sufficient organizational freedom to ensure their independence from operating

5,2,2 The shift manning for the station shall be as shown in Figure 6.1-3.

page 6 of 10

pressures.

- 5,2.2.6
- At least one licensed Reactor Operator shall be in the control room when fuel is in the reactor. In addition, while the reactor is in OPERATIONAL CONDITION 1, 2 or 3, at least one licensed Senior Reactor Operator who has been designated by the Shift Manager to assume the control room direction responsibility shall be in the Control
- 5.2.2.2
- A radiation protection technician* shall be on site when fuel is in the reactor.

All CORE ALTERATIONS shall be observed and directly supervised by either a licensed Senior Reactor Operator or Senior Reactor Operator Limited to Fuel Handling who has no other concurrent responsibilities during this operation

LAZ

4. DELETED LA3

The Independent Safety Engineering Group (ISEG) shall function to examine un operating characteristics, NRC issuances, industry advisories, Licensee Event Reports and other sources of plant design and operating experience information, including plants of similar design, which may indicate areas for improving unit safety. The ISEG shall be composed of at least three, dedicated Yull-time engineers of multidisciplines located on site and shall be augmented on a partime basis by personnel from other parts of the Commonwealth Edison Company organization to provide expertise not represented in the group. The USEG shall be responsible for maintaining surveillance of unit activities to provide independent verification# that these activities are performed correctly and that human errors are reduced as much as practical. The ISEG shall make detailed recommendations for revised procedures, equipment modifications, maintenance activities, operations activities or other means of improving unit safety to the Manager of Quality and Sefety Assessment and the Plant

5.2.2.9

The Shift Technical Advisor shall provide advisory technical support to the Shift Manager in the areas of thermal hydraulics, reactor engineering, and plant analysis with regard to the safe operation of the unit. hift managen

5,2.2.0

The radiation protection technician position may be less than the minimum requirement for a period of time not to exceed two hours in order to accommodate unexpected absence provided immediate action is taken to fill the required position.

Not responsible for sign-off feature.

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ADMINISTRATIVE CONTROLS

- 7. The amount of overtime worked by unit staff members performing safety related functions shall be limited and controlled in accordance with the NRC Policy Statement on working hours (Generic Letter 82-12).
- The Operations Manager or Shift Operations Supervisor shall hold a Senior Reactor Operator License.

(5th) (5.2)

D. Qualifications of the station management and operating staff shall meet minimum acceptable levels as described in ANSI N18.1, "Selection and Training of Nuclear Power Plant Personnel," dated March 8, 1971. The Health Physics Supervisor shall meet the requirements of radiation protection manager of Regulatory Guide 1.8, September 1975. The ANSI N18.1-1971 qualification requirements for Radiation Protection Technician may also be met by either of the following alternatives:

See 115 5.3

- 1. Individuals who have completed the Radiation Protection Technician training program and have accrued 1 year of working experience in the specialty, or
- 2. Individuals who have completed the Radiation Protection Technician training program, but have not yet accrued 1 year of working experience in the specialty, who are supervised by on-shift health physics supervision who meet the requirements of ANSI N18.1-1971 Section 4.3.2, "Supervisor Not Requiring AEC Licenses," or Section 4.4.4, "Radiation Protection."
- E. Retraining and replacement training of Station personnel shall be in accordance with ANSI N18.1 "Selection and Training of Nuclear Power Plant Personnel", dated March 8, 1971 and Appendix "A" of 10 CFR Part 55, and shall include familiarization with relevant industry operational experience.

FLA.1

F. Retraining shall be conducted at intervals not exceeding 2 years.

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- 5,2.2,e
- 7. The amount of overtime worked by unit staff members performing safety related functions shall be limited and controlled in accordance with the NRC Policy Statement on working hours (Generic Letter 82-12).
- 5.2.2.f
- 8. The operations Manager or Shift Operations Supervisor shall hold a CLA. Senior Reactor Operator License.

Qualifications of the station management and operating staff shall meet minimum acceptable levels as described in ANSI N18.1, "Selection and Training of Nuclear Power Plant Personnel," dated March 8, 1971. The Health Physics Supervisor shall meet the requirements of radiation protection manager of Regulatory Guide 1.8, September 1975. The ANSI N18.1-1971 qualification requirements for Radiation Protection Technician may also be met by either of the following alternatives:

- 1. Individuals who have completed the Radiation Protection Technician training program and have accrued 1 year of working experience in the specialty, or
- 2. Individuals who have completed the Radiation Protection Technician training program, but have not yet accrued 1 year of working experience in the specialty, who are supervised by on-shift health physics supervision who meet the requirements of ANSI N18.1-1971 Section 4.3.2, "Supervisor Not Requiring AEC Licenses," or Section 4.4.4, "Radiation Protection."

- Retraining and replacement training of Station personnel shall be in accordance with ANSI N18.1, "Selection and Training of Nuclear Power Plant Personnel", dated March 8, 1971 and Appendix "A" of 10 CFR Part 55, and shall include familiarization with relevant industry operational experience.
- Retraining shall be conducted at intervals not exceeding 2 years.

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SEE ITS

- 7. The amount of overtime worked by unit staff members performing safety related functions shall be limited and controlled in accordance with the NRC Policy Statement on working hours (Generic Letter 82-12).
- The Operations Manager or Shift Operations Supervisor shall hold a Senior Reactor Operator License.

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5.3.1 D.

Qualifications of the station management and operating staff shall meet minimum acceptable levels as described in ANSI N18.1, "Selection and Training of Nuclear Power Plant Personnel," dated March 8, 1971. The Health Physics Supervisor shall meet the requirements of radiation protection manager of Regulatory Guide 1.8, September 1975. The ANSI N18.1-1971 qualification requirements for Kadiation Protection Technician may also be met by either of the following alternatives:

radiation Protection

5.3.1.a

- 1. Individuals who have completed the Radiation Protection Technician training program and have accrued I year of working experience in the specialty, or
- Individuals who have completed the Radiation Protection Technician training program, but have not yet accrued 1 year of working experience in the specialty, who are supervised by on-shift health physics supervision who meet the requirements of ANSI N18.1-1971 Section 4.3.2, "Supervisor Not Requiring AEC Licenses," or Section 4.4.4, "Radiation Protection."
 - E. Retraining and replacement training of Station personnel shall be in accordance with ANSI N18.1, "Selection and Training of Nuclear Power Plant Personnel", dated March 8, 1971 and Appendix "A" of 10 CFR Part 55, and shall include familiarization with relevant industry operational experience.
 - F. Retraining shall be conducted at intervals not exceeding 2 years.

See CTS V

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6. DELETED (The Review and Investigative Function and the Audit Function are described in the Quality Assurance Manual Topical Report CE-1-A).

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6-4 (Next page is 6-13)

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FIGURE 6.1-3 MINIMUM SHIFT CREW COMPOSITION (EMC)

POSITION(b)	MINIMUM CREW NUMBER		
	EACH UNIT IN CONDITION 1, 2, OR 3	ONE UNIT IN CONDITION 1, 2, OR 3, AND ONE UNIT IN CONDITION 4 OR 5 OR DEFUELED	EACH UNIT IN CONDITION 4 OR 5 OR DEFUELED
SM SRO RO AO STA ⁽⁶⁾	1 1 3 3	1 1 3 3	1 None 2 3 None

SEE ITS>

(a) This table reflects the total requirements for shift staffing of both units.

With the exception of the Shift Manager, the shift crew composition may be one less than the minimum requirements of Figure 6.1-3 for not more than 2 hours to accommodate unexpected absence of on-duty shift crew members, provided immediate action is taken to restore the shift crew composition to within the minimum requirements of Figure 6.1-3. This provision does not permit any shift crew position to be unmanned upon shift change due to an oncoming shift crewman being late or absent.

- b) Table Notation:
 - SM Shift Manager with a Senior Reactor Operator license for each unit whose reactor contain: fuel.
 - SRO Individual with a Senior Reactor Operator license for each unit whose reactor contains fue

During CORE ALTERATIONS on either unit a licensed SRO or licensed SRO limited to fuel handling, who has no other concurrent responsibilities, must be present to observe and directly supervise this operation.

- An Individual with a Reactor Operator license or a Senior Reactor Operator license for unit assigned. At least one RO shall be assigned to each unit whose reactor contains fuel. Individuals acting as relief operators shall hold a license for both units. Otherwise, for each unit, provide a relief operator who holds a license for the unit assigned.
- AO At least one auxiliary operator shall be assigned to each unit whose reactor contains fuel.
- STA Shift Technical Advisor.

While either unit is in CONDITION 1, 2, or 3, an individual with a valid SRO license shall be designated to assume the control room command function. With both Units in CONDITION 4 or 5 an individual with a valid SRO or RO license shall be designated to assume the control room command function.

< 5.2 >-{

The STA position shall be filled by an individual who meets the qualifications specified by the Commission Policy Statement on Engineering Expertise on Shift.

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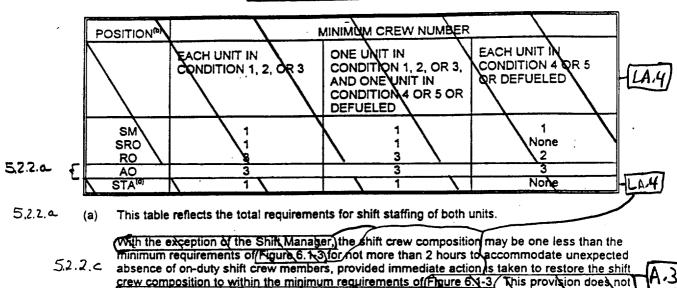
LA SALLE - UNIT 2

6-13

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ITS 5.2

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Crewman being late or absent.

(b) Table Notation:

SM Shift Manager with a Senior Reactor Operator license for each unit whose reactor contains fuel.

SRO Individual with a Senior Reactor Operator license for each unit whose reactor contains fuel.

permit any shift crew position to be unmanned upon shift change due to an oncoming shift

During CORE ALTERATIONS on either unit a licensed SRO or licensed SRO limited to full handling, who has no other concurrent responsibilities, must be present to observe and directly supervise this operation.

supervise this operation

RO An Individual with a Reactor Operator license on Senior Reactor Operator license for unit assigned (At least one RO shall be assigned to each unit whose reactor contains fuel

An Individual with a Reactor Operator license on a Senior Reactor Operator license for unit assigned. At least one RO shall be assigned to each unit whose reactor contains fuel.

Individuals acting as relief operators shall hold a license for both units. Otherwise, or each unit, provide a relief operator who holds a license for the unit assigned.

5,2.2,a. AO At least one auxiliary operator shall be assigned to each unit whose reactor contains fuel

STA Shift Technical Advisor

SEE
(c) While either unit is in CONDITION 1, 2, or 3, an individual with a valid SRO license shall be designated to assume the control room command function. With both Units in CONDITION 4 or 5 an individual with a valid SRO or RO license shall be designated to assume the control room command function.

5.2.2.9 (d) The STA position shall be filled by an individual who meets the qualifications specified by the Commission Policy Statement on Engineering Expertise on Shift.

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5.7 6.1.1 HIGH RADIATION AREAS

more of the following:

5.7.1

- 6.1.1.1 Pursuant to Paragraph (20.202(a)(5)) of 10 CFR 20, in lieu of the (20.1601) of control device" or "alarm signal" required by paragraph (20.202(a)(b)) of (20.1601) of control device" or "alarm signal" required by paragraph (20.202(a)(b)) of (20.1601) of control device of this paragraph (20.1601) of conspicuously posted as a High Radiation Area and entrance thereto shall be controlled by requiring issuance of a Radiation Work Permit (RWP). Individuals qualified in radiation protection procedures, or personnel continuously escorted by such individuals, may be exempt from the RWP issuance requirement during the performance of their assigned duties in high radiation areas in which the intensity of radiation is greater than 100 mrem/hr* but less than 1000 mrem/hr*, provided they are otherwise following plant radiation protection procedures for entry into such high radiation areas. Any individual or group of individuals permitted to enter such areas shall be provided with or accompanied by one or
 - a. A radiation monitoring device which continuously indicates the radiation dose in the area.
 - b. A radiation monitoring device which continuously integrates the radiation dose rate in the area and alarms when a preset integrated dose is received. Entry into such areas with this monitoring device may be made after the dose rate level in the area has been established and personnel have been made knowledgeable of them.
 - c. A health physics qualified individual, i.e., qualified in radiation protection procedures, with a radiation dose rate monitoring device, who is responsible for providing positive control over the activities within the area and shall perform periodic radiation surveillance at the frequency specified by the Realth Physicist in the Radiation Work Permit (RWP).
- 5.7.2 6.1.1.2 In addition to the requirements of 6.1.1.1, above, for areas accessible to personnel with radiation levels such that a major portion of the body could receive in one hour a dose greater than 1000 mrem*, the computer shall be programmed to permit entry through locked doors for any individual requiring access to any such High-High Radiation Areas for the time that access is required.
- 5.7.3 6.1.1.3 Keys to manually open computer controlled High Radiation Area doors and High-High Radiation Area doors shall be maintained under the Administration control of the Shift Manager on duty and for the Mealth Physicist
- 5.7.4 6.1.1.4 High-High Radiation areas, as defined in 6.1.1.2 above, not equipped with the computerized card readers shall be maintained in accordance with 10 crn. 20.203 c.2 (111), locked except during periods when access to the area is required with positive control over each individual entry, or 10 crp. 20.203.44 in the case of a High Radiation Area established for a period of 30 days or less, direct surveillance to prevent unauthorized entry may be substituted. Doors shall remain locked except during periods of access by personnel under an approved RWP which shall specify the dose rate levels in the immediate work area and the maximum allowable stay time for individuals in that area. For

(20.1601 (a)(3)-[A.2]

HIGH RADIATION AREAS (Continued)

SEE ITS

individual areas accessible to personnel with radiation levels such that a major portion of the body could receive in one hour a dose in excess of 1000 mrem* that are located within large areas, such as the containment, where no enclosure exists for purposes of locking, and no enclosure can be reasonably constructed around the individual areas, then that area shall be roped off, conspicuously posted and a flashing light shall be activated as a warning device. In lieu of the stay time specification of the RWP, direct or remote, such as use of closed circuit TV cameras, continuous surveillance may be made by personnel qualified in radiation protection procedures to provide positive exposure control over the activities within the area.

5.4 6.2 PLANT OPERATING PROCEDURES (AND PROGRAMS). (See IT 5 5.5)

S.4.1 A. Written procedures shall be established, implemented, and maintained covering the activities referenced below:

5.4.1.a a. The applicable procedures recommended in Appendix A, of Regulatory Guide 1.33, Revision 2, February 1978,

5.4.1.b b. The emergency operating procedures required to implement the requirements of NUREG-0737 and Supplement 1 to NUREG-0737 as stated in Section 7.1 of Generic Letter No. 82-33,

d. Station Security Plan implementation,

d. Generating Station Emergency Response Plan implementation

(e. \textsquare \texts

1. OFFSITE DOSE CALCULATION MANUAL implementation, and A. 3

5.41.C

g. Fire Protection Program implementation.

(Add proposed TS 5.4.1d) MI

SEE ITS

*Measurement made at 18" from source of radioactivity.

LA SALLE - UNIT 2

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Amendment No. #7, 70

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57 HIGH RADIATION AREAS (Continued)

individual areas accessible to personnel with radiation levels such that a major portion of the body could receive in one hour a dose in excess of 1000 mrest that are located within large areas, such as the containment, where no enclosure exists for purposes of locking, and no enclosure can be reasonably constructed around the individual areas, then that area shall be roped off, conspicuously posted and a flashing light shall be activated as a warning device. In lieu of the stay time specification of the RMP, direct or remote, such as use of closed circuit TV cameras, continuous surveillance may be made by personnel qualified in radiation protection procedures to provide positive exposure control over the activities within the area.

6.2 PLANT OPERATING PROCEDURES AND PROGRAMS

- A. Written procedures shall be established, implemented, and maintained covering the activities referenced below:
 - a. The applicable procedures recommended in Appendix A, of Regulatory Guide 1.33, Revision 2, February 1978,
 - b. The emergency operating procedures required to implement the requirements of NUREG-0737 and Supplement 1 to NUREG-0737 as stated in Section 7.1 of Generic Letter No. 82-33.
 - c. Station Security Plan implementation,
 - d. Generating Station Emergency Response Plan implementation,
 - e. PROCESS CONTROL PROGRAM implementation.
 - f. OFFSITE DOSE CALCULATION MANUAL implementation, and
 - g. Fire Protection Program implementation.

*Measurement made at 18" from source of radioactivity.

See IT 5 5.4

A.2

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6-16

Amendment No. 47, 70

ADMINISTRATIVE CONTROLS

PLANT OPERATING PROCEDURES AND PROGRAMS (Continued)

B. Radiation control procedures shall be maintained, made available to all station personnel, and adhered to. These procedures shall show permissible radiation exposure and shall be consistent with the requirements of 10 CRR 20. This radiation protection program shall be organized to meet the requirements of 10 CFR 20.

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C. TECHNICAL REVIEW AND CONTROL

Procedures required by Specification 6.2.A and 6.2.B and other procedures which affect nuclear safety, as determined by the Plant Manager, and changes thereto, other than editorial or typographical changes, shall be reviewed as follows prior to implementation except as noted in Specification 6.2.D:

- 1. Each procedure or procedure change shall be independently reviewed by a qualified individual knowledgeable in the area affected other than the individual who prepared the procedure or procedure change. This review shall include a determination of whether or not additional cross-disciplinary reviews are necessary. If deemed necessary, the reviews shall be performed by the qualified review personnel of the appropriate discipline(s).
- Individuals performing these reviews shall meet the applicable experience requirements of ANSI N18.1-1971, Sections 4.2, 4.3, 4.4, 4.5.1, or 4.6, and be approved by the Plant Manager.
- 3. Applicable Administrative Procedures recommended by Regulatory Guide 1.33, Plant Emergency Operating Procedures, and changes thereto shall be submitted to the Onsite Review and Investigative Function for review and approval prior to implementation.
- 4. Review of the procedure or procedure change will include a determination of whether or not an unreviewed safety question is involved. This determination will be based on the review of a written safety evaluation prepared by a qualified individual or documentation that a safety evaluation is not required. Onsite Review, Offsite Review and Commission approval of items involving unreviewed safety questions shall be obtained prior to Station approval for implementation.
- 5. The Department Head approval authority shall be specified in station procedures.
- 6. Written records of reviews performed in accordance with this specification shall be prepared and maintained in accordance with Specification 6.5.
- Editorial and Typographical changes shall be made in accordance with station procedures.

See ITS 5.4)

Page Zof 2 Amendment No. 113 5.4

PLANT OPERATING PROCEDURES AND PROGRAMS (Continued)

1,A

Radiation control procedures shall be maintained, made available to all station personnel, and adhered to. These procedures shall show permissible radiation exposure and shall be consistent with the requirements of 10 CFR 20. This radiation protection program shall be organized to meet the requirements of 10 CFR 20.

See CTS 6.2.B

TECHNICAL REVIEW AND CONTROL

Procedures required by Specification 6.2.A and 6.2 B and other procedures which affect nuclear safety, as determined by the Plant Manager, and changes thereto, other than editorial or typographical changes, shall be reviewed as follows prior to implementation except as noted in Specification 6.2.D:

[A.2]

- Each procedure or procedure change shall be independently reviewed by a
 qualified individual knowledgeable in the area affected other than the
 individual who prepared the procedure or procedure change. This review
 shall include a determination of whather or not additional crossdisciplinary reviews are necessary. If deemed necessary, the reviews
 shall be performed by the qualified review personnel of the appropriate
 discipline(s).
- Individuals performing these reviews shall meet the applicable experience requirements of ANSI N18.1-1971, Sections 4.2, 4.3, 4.4, 4.5.1, or 4.6, and be approved by the Plant Hanager.
- 3. Applicable Administrative Procedures recommended by Regulatory Guide 1.3%, Plant Emergency Operating Procedures, and changes thereto shall be submitted to the Onsite Raview and Investigative Function for review and approval prior to implementation.
- 4. Review of the procedure or procedure change will include a determination of whether or not an unreviewed safety question is involved. This determination will be based on the review of a written safety evaluation prepared by a qualified individual or documentation that a safety evaluation is not required. Onsite Review, Offsite Review and Commission approval of items involving unreviewed safety questions shall be obtained prior to Station approval for implementation.
- The Department Head approval authority shall be specified in station procedures.
- 6. Written records of reviews performed in accordance with this specification shall be prepared and maintained in accordance with Specification 6.5.
- 7. Editorial and Typographical changes shall be made in accordance with station procedures.

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Amendment No. 113

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Temporary changes to procedures 6.2.A and 6.2.B above may be made provided:

1. The integt of the original procedure is not altered.

The change is approved by two members of the plant management staff, at least one of whom polds a Senior Reactor Operator's License on the unit affected.

The change is documented, reviewed and approved in accordance with appecification 6.2.C. within 14 days of implementation.

Drills of the emergency procedures described in Specification 6.2. It is shall be conducted at frequencies as specified in the Generating Stations Emergency Plan (GSEP). These drills will be planned so that during the course of the year, communication links are tested and outside agencies are contacted.

A.4

The following programs shall be established, implemented, and maintained:

1. Primary Coolant Sources Outside Primary Containment

A program to reduce leakage from those portions of systems outside primary containment that could contain highly radioactive fluids during a serious transient or accident to as low as practical levels. The systems include LPCS, HPCS, RHR/LPCI, RCIC, hydrogen recombiner, process sampling, containment monitoring, and standby gas treatment systems. The program shall include the following:

- a. Preventive maintenance and periodic visual inspection requirements, and
- Integrated leak test requirements for each system at refueling cycle intervals or less.

2. In-Plant Radiation Monitoring

A program which will ensure the capability to accurately determine the airborne iodine concentration in vital areas under accident conditions. This program shall include the following:

- a. Training of personnel,
- b. Procedures for monitoring, and
- c. Provisions for maintenance of sampling and analysis equipment.

3. Post-accident Sampling

A program which will ensure the capability to obtain and analyze reactor coolant, radioactive iodines and particulates in plant gaseous effluents, and containment atmosphere samples under accident conditions. The program shall include the following:

- a. Training of personnel,
- b. Procedures for sampling and analysis,
- c. Provisions for maintenance of sampling and analysis equipment.

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SEE IIS

ADMINISTRATIVE CONTROLS

Ail

ITS 5.5

- D. Temporary changes to procedures 6.2.A and 6.2.B above may be made provided:
 - 1. The intent of the original procedure is not altered.
 - 2. The change is approved by two members of the plant management staff, at least one of whom holds a Senior Reactor Operator's License on the unit affected.
 - The change is documented, reviewed and approved in accordance with Specification 6.2.C. within 14 days of implementation.

Drills of the emergency procedures described in Specification 6.2.A.d shall be conducted at frequencies as specified in the Generating Stations Emergency Plan (GSEP). These drills will be planned so that during the course of the year, communication links are tested and outside agencies are contacted.

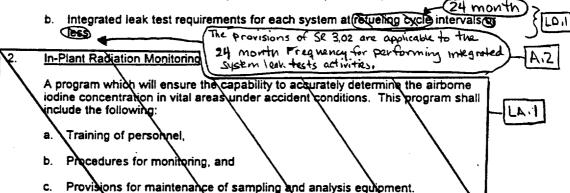
F. The following programs shall be established, implemented, and maintained:

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1. Primary Coolant Sources Outside Primary Containment

A program to reduce leakage from those portions of systems outside primary containment that could contain highly radioactive fluids during a serious transient or accident to as low as practical levels. The systems include LPCS, HPCS, RHR/LPCI, RCIC, hydrogen recombiner, process sampling, containment monitoring, and standby gas treatment systems. The program shall include the following:

a. Preventive maintenance and periodic visual inspection requirements, and



5.5.3 3. Post-accident Sampling

A program which will ensure the capability to obtain and analyze reactor coolant, radioactive iodines and particulates in plant gaseous effluents, and containment atmosphere samples under accident conditions. The program shall include the following:

- a. Training of personnel,
- b. Procedures for sampling and analysis,
- c. Provisions for maintenance of sampling and analysis equipment.

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6-18

5,5,4

Radioactive Effluent Controls Program

A program shall be provided conforming with 10 CFR 50.36a for the control of radioactive effluents and for maintaining the doses to MEMBERS OF THE PUBLIC from radioactive effluents as low as reasonably achievable. The program (1) shall be contained in the ODCM, (2) shall be implemented by operating procedures, and (3) shall include remedial actions to be taken whenever the program limits are exceeded. The program shall include the following elements:

5.5.4.9

 Limitations on the operability of radioactive liquid and gaseous monitoring instrumentation including surveillance tests and setpoint determination in accordance with the methodology in the ODCM,

5.5.4.6

b. Limitations on the concentrations of radioactive material released in liquid effluents to UNRESTRICTED AREAS conforming to 10 times the concentration values in Appendix B, Table 2, Column 2 to 10 CFR 20.1001-20.2402,

5.5.4.6

c. Monitoring, sampling, and analysis of radioactive liquid and gaseous effluents in accordance with 10 CFR 20.1302 and with the methodology and parameters in the ODCM,

5,5.4.2

d. Limitations on the annual and quarterly doses or dose commitment to a MEMBER OF THE PUBLIC from radioactive materials in liquid effluents released from each unit to UNRESTRICTED AREAS conforming to Appendix I to 10 CFR Part 50,

5.5.4.e

e. Determination of cumulative and projected dose contributions from radioactive effluents for the current calendar quarter and current calendar year in accordance with the methodology and parameters in the ODCM at least every 31 days,

5.5.4.f

f. Limitations on the operability and use of the liquid and gaseous effluent treatment systems to ensure that the appropriate portions of these systems are used to reduce releases of radioactivity when the projected doses in a 31-day period would exceed 2 percent of the guidelines for the annual dose or dose commitment conforming to Appendix I to 10 CFR Part 50,

5,5.4.9

Limitations on the dose rate resulting from radioactive materials released in gaseous effluents from the site to areas at or beyond the SITE BOUNDARY shall be limited to the following:

5.5.4.9.1

For noble gases: less than or equal to a dose rate of 500 mrem/yr to the whole body and less than or equal to a dose rate of 3000 mrem/yr to the skin, and

5.5.4.9.2

 For Iodine-131, Iodine-133, tritium, and for all radionuclides in particulate form with half-lives greater than 8 days: less than or equal to a dose rate of 1500 mrem/yr to any organ,

5.5.4.4

 Limitations on the annual and quarterly air doses resulting from noble gases released in gaseous effluents from each unit to areas beyond the SITE BOUNDARY conforming to Appendix I to 10 CFR Part 50,

LA SALLE - UNIT 2

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See ITS

PLANT OPERATING PROCEDURES AND PROGRAMS (Continued)

[I.A]

ITS 5.5

5.5.4.

i. Limitations on the annual and quarterly doses to a MEMBER OF THE PUBLIC from Iodine-131, Iodine-133, tritium, and all radionuclides in particulate form with half-lives greater than 8 days in gaseous effluents released from each unit to areas beyond the SITE BOUNDARY conforming to Appendix I to 10 CFR Part 50,

5,5.4,K

j. Limitations on venting and purging of the containment through the Primary Containment Vent and Purge System or Standby Gas Treatment System to maintain releases as low as reasonably achievable,

5,5,4.5

k. Limitations on the annual dose or dose commitment to any MEMBER OF THE PUBLIC due to releases of radioactivity and to radiation from uranium fuel cycle sources conforming to 40 CFR Part 190.

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Radiological Environmental Monitoring Program

A program shall be pravided to monitor the radiation and radionuclides in the environs of the plant. The program shall provide (1) representative measurements of radioactivity in the highest potential exposure pathways, and (2) verification of the accuracy of the effluent monitoring program and modeling of environmental exposure pathways. The program shall (1) be contained in the ODCM, (2) conform to the guidance of Appendix I to 10 CFR Part 50, and (3) include the following:

- Monitoring, sampling, analysis, and reporting of radiation and radionuclides in the environment in accordance with the methodology and parameters in the ODOM,
- b. A Land Use Census to ensure that changes in the use of areas at and beyond the SITE BOUNDARY are identified and that modifications to the monitoring program are made if required by the results of this census, and
- c. Participation in a Interlaboratory Comparison Program to ensure that independent checks on the precision and accuracy of the measurements of radioactive materials in environmental sample matrices are performed as part of the quality assurance program for environmental monitoring.

5.5.6 6. Inservice Inspection Program for Post Tensioning Tendons

This program provides controls for monitoring any tendon degradation in pre-stressed concrete containments, including effectiveness of its corrosion protection medium, to ensure containment structural integrity. The program shall include baseline measurements prior to initial operations. The Tendon Surveillance Program, inspection frequencies, and acceptance criteria shall be in accordance with Regulatory Guide 1.35, Revision 3, 1989, except that the unit 1 and 2 primary containments shall be treated as twin containments even though

The provisions of SR 3.0.2 and SR 3.0.3 are applicable to the Radioactive Efflunt Control Program surveillance frequencies.

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1A.2

See ITS FLANT OF	ERATING PROCEDURES AND PROGRAMS (Continued) AII ITS 5.5
5.5.6	the Initial Structural Integrity Tests were not within 2 years of each other.
(The Onsite Review and Investigative Function shall be responsible for reviewing and approving changes to the Inservice Inspection Program for Post Tensioning Tendens.
	The provisions of 4.0.2 and 4.0.3 are applicable to the Tendon Surveillance Program inspection frequencies.
5,5,13 7.	Primary Containment Leakage Rate Testing Program
5.5.13.9	A program shall be established to implement the leakage rate testing of the primary containment as required by 10 CFR 50.54(o) and 10 CFR 50, Appendix J, Option B, as modified by approved exemptions. This program shall be in accordance with the guidelines contained in Regulatory Guide 1.163, "Performance-Based Containment Leak-Testing Program," dated September 1995.
5,5,13,6	The peak calculated primary containment internal pressure for the design basis loss of coolant accident, P _a , is 39.6 psig.
5.5.13.0	The maximum allowable primary containment leakage rate, L _a , at P _a , is 0.635% of primary containment air weight per day.
5.5.13.2	Leakage rate acceptance criteria are:
5.5.13.1.1	a. Primary containment overall leakage rate acceptance criterion is ≤1.0 L _s . During the first unit.startup following testing in accordance with this program, the leakage rate acceptance criteria are ≤ 0.60 L _s for the combined Type B and Type C tests, and ≤ 0.75 L _s for Type A tests.
5.5.13.2	b. Air lock testing acceptance criteria are:
5.5.13.6.26)	 Overall air lock leakage rate is ≤0.05 L_a when tested at ≥ P_a.
5,5,13,4.266)	2) For each door, the seal leakage rate is ≤ 5 scf per hour when the gap between the door seals is pressurized to ≥ 10 psig.
. (The provisions of specification 10.2 do not apply to the test frequencies specified in the Primary Containment Leakage Rate Testing Program.
2.2.13.6	The provisions of specification 4.0.3 are applicable to the Primary Containment Leakage Rate Testing Program.
5,5,B 8.	Ventilation Filter Testing Program (VFTP)
	A program shall be established to implement the following required testing of Engineered Safety Feature (ESF) filter ventilation systems at the frequencies specified in Regulatory Guide 1.52, Revision 2, dated March 1978, and in accordance with ASME N510-1989.

The provisions of Specifications 4.0.2 and 4.0.3 are applicable to the VFTP test frequencies.

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NT OPERATING PROCEDURES AND PROGRAMS (Continued)

5.5.8,4

Demonstrate for each of the ESF systems that an inplace test of the high efficiency particulate air (HEPA) filters shows a penetration and system bypass < 0.05 % when tested in accordance with ASME N510-1989, at the system flowrate specified below:

A.12 CRAF System EMUS

ESF Ventilation System

Flowrate (cfm)

SBGT System RET/Byslem ≥ 3600 and ≤ 4400 ≥ 3600 and ≤ 4400

5,5,8,6 b, Demonstrate for each of the ESF system filter units that an inplace test of the charcoal adsorber shows a penetration and system bypass less than the value specified below, when tested in accordance with ASME N510-1989, at the system flowrate specified below:

System	Penetration and System Bypass	Flowrate (cfm)
SBGT System	0.05 %	≥ 3600 and ≤ 4400
CREF-System	0.05 %	≥ 3600 and ≤ 4400
AEERRF System - A.12	2.0 %	≥ 18000 and ≤ 28900
AEERRF System	2.0 %	≥ 14000 and ≤ 22800

5,5,8,0

C.

Demonstrate for each of the ESF systems that a laboratory test of a sample of the charcoal adsorber, when obtained as described in Regulatory Guide 1.52, Revision 2, shows the methyl iodide penetration less than the value specified below when tested in accordance with ASTM D3803-1989 at a temperature of 30°C, a relative humidity of 70 % and a face velocity as specified below.

ESF Ventilation System	Penetration	Face Velocity (fpm)
SBGT System	0.5 %	40
CIREF System)	2.5 %	40
CRRF System	15.0 %	80
AEERRF System A.IZ	15.0 %	.80

d.

Demonstrate for each of the ESF systems that the pressure drop across the combined moisture separator, heater, prefilter, HEPA filters and the charcoal adsorbers is less than the value specified below when tested at the system flowrate specified below:

ESF Ventilation System	Delta P (inches wg)	Flowrate (cfm)
SBGT System	8	≥ 3600 and ≤ 4400
CREF System	8	≥ 3600 and ≤ 4400
CRRF System A.12	3.0	≥ 18000 and ≤ 28900
AEERRF System: 14.16	3.0	≥ 14000 and ≤ 22800

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·SEE

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PLANT OPERATING PROCEDURES AND PROGRAMS (Continued)

e. Demonstrate that the heaters for each of the ESF systems dissipate the electrical power specified below when tested in accordance with ASME N510-1989. These readings shall include appropriate corrections for variations from 480 Volts at the bus

ESF Ventilation

Wattage (kw)

System

≥ 21 and ≤ 25

SBGT System CREF System

≥ 21 and ≤ 23 ≥ 18 and ≤ 22

6,3 ACTION TO BE TAKENIN THE EVENT OF A REPORTABLE EVENT IN PLANT OPERATION

he following actions shall be taken for REPORTABLE EVENTS:

7.1

a. The Commission shall be notified and a Licensee Event Report submitted pursuant to the equirements of Section 50 73 to 10 CFR Part 50, and

 Each REPORTABLE EVENT shall be reviewed by the Onsite Review and Investigative Function. LAI

page 20f2

SeeITS

PLANT OPERATING PROCEDURES AND PROGRAMS (Continued)

5.58,e

Demonstrate that the heaters for each of the ESF systems dissipate the electrical power specified below when tested in accordance with ASME N510-1989. These readings shall include appropriate corrections for variations from 480 Volts at the bus.

A.12 CRAF System

EMUS

Wattage (kw)

SBGT System

≥ 21 and ≤ 25 ≥ 18 and ≤ 22

6.3 ACTION TO BE TAKEN IN THE EVENT OF A REPORTABLE EVENT IN PLANT OPERATION

The following actions shall be taken for REPORTABLE EVENTS:

- a. The Commission shall be notified and a Licensee Event Report submitted pursuant to the requirements of Section 50.73 to 10 CFR Part 50, and
- b. Each REPORTABLE EVENT shall be reviewed by the Onsite Review and Investigative Function.

SEE CTS 6.3

Add proposed ITS 5.5.11 M.I

LA SALLE - UNIT 2

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If a safety limit is exceeded, the reactor shall be shut down immediately pursuant to Specification 2.1.1, 2.1.2 and 2.1.3, and critical reactor operation shall not be resumed until authorized by the NRC. The conditions of anutown shall be promptly reported to the Site Vice president or his designated alternate. The incident shall be reviewed by the Onsite and Offsite Review and Investigative Functions and a separate Licenses Event Report for each economics shall be prepared in accordance with Section 50.73 to 10 CFR Part 50. The NRC Operations Center shall be notified by telephone as soon as possible and in all cases within one hour. The Site vice President and the prescript of Safety Review shall be notified within 24 hours.

6.5 PLANT OPERATING RECORDS

- A. Records and/or logs relative to the following items shall be kept in a manner convenient for review and shall be retained for at least 5 years:
 - Records of normal plant operation, including power levels and periods of operation at each power level;
 - Records of principal maintenance and activities, including inspection and repair, regarding principal items of equipment pertaining to nuclear safety;
 - 3. Records and reports of reportable events;
 - 4. Records and periodic checks, inspection and/or calibrations performed to verify that the surveillance requirements (see Section 4 of these specifications) are being met. All equipment failing to meet surveillance requirements and the corrective action taken shall be recorded;
 - 5. Records of changes to operating procedures;
 - 6. Shift Manager logs; and
 - 7. Byproduct material inventory records and source leak test results.
- B. Records and/or logs relative to the following items shall be recorded in a manner convenient for review and shall be retained for the life of the plant:
 - Substitution or replacement of principal items of equipment pertaining to nuclear safety;
 - 2. Changes made to the plant as it is described in the SAR;
 - 3. Records of new and spent fuel inventory and assembly histories;
 - 4. Updated, corrected, and as-built drawings of the plant;
 - 5. Records of plant radiation and contamination surveys;
 - 6. Records of offsite environmental monitoring surveys;

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6.4 ACTION TO BE TAKEN IN THE EVENT A SAFETY LIMIT IS EXCEEDED

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If a safety limit is exceeded, the reactor shall be shut down immediately pursuant to Specification 2.1.1, 2.1.2 and 2.1.3, and critical reactor operation shall not be resumed until authorized by the NRC. The conditions of shutdown shall be promptly reported to the Site Vice President or his designated alternate. The incident shall be reviewed by the Onsite and Offsite Review and Investigative Functions and a separate Licensee Event Report for each occurrence shall be prepared in accordance with Section 50.73 to 10 CFR Part 50. The NRC Operations Center shall be notified by telephone as soon as possible and in all cases within one hour. The Site Vice President and the Director of Safety Review shall be notified within 24 hours.

5 PLANT OPERATING RECORDS

- A. Records and/or logs relative to the following items shall be kept in a magner convenient for review and shall be retained for at least 5 years:
 - Records of normal plant operation, including power levels and periods of aperation at each power level;
 - Records of principal maintenance and activities, including inspection and repair, regarding principal items of equipment pertaining to nuclear safety;
 - 3. Records and reports of reportable events;
 - 4. Records and periodic checks, inspection and/or calibrations performed to verify that the surveillance requirements (see Section 4 of these specifications) are being met. All equipment failing to meet surveillance requirements and the corrective action taken shall be recorded;
 - 5. Repords of changes to operating procedures;
 - 6. Shift Manager logs; and
 - Byproduct material inventory records and source leak test results:
- B. Records and/or loge relative to the following items shall be recorded in manner convenient for review and shall be retained for the life of the plant:
 - 1. Substitution or replacement of principal items of equipment pertaining to nuclear safety;
 - Changes made to the plant ag it is described in the SAR;
 - 3. Records of new and spent fuel inventory and assembly histories;
 - 4. Updated, corrected, and as-built drawings of the plant;
 - 5. Records of plant radiation and contamination surveys;
 - 6. Records of offsite environmental monitoring surveys;

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PLANT OPERATING RECORDS (Continued)

- 7. Records of radiation exposure for all plant personnel, including all contractors and visitors to the plant, in accordance with 10 CFR part 20;
- 8. Records of radioactivity in liquid and gaseous wastes released to the environment;
- 9. Records of transient or operational cycling for those components that have been designed to operate safety for a limited number of transient or operational cycles (identified in Table 5.7.1-1);
- Records of individual staff members indicating qualifications, experience, training, and retraining;
- 11. Inservice inspections of the reactor coolant eystem;
- 12. Minutes of meetings and results of reviews and addits performed by the offsite and onsite review and audit functions;
- 13. Records of reactor tests and experiments;
- 14. Records of Quality Assurance activities required by the QA Manual, except for those items specified in Section 6.5.A;
- 15. Records of reviews performed for changes made to procedures on equipment or reviews of tests and experiments pursuant to 10 CFR 50.59;
- 16. Records of the service lives of all hydraulic and mechanical snubbers required by specification 3.7.9 including the date at which the service life commences and associated installation and maintenance records;
- 17. Records of analyses required by the radiological environmental monitoring program;
- 18. Records of reviews performed for changes made to the OFKSITE DOSE CALGULATION MANUAL and the PROCESS CONTROL PROGRAM; and
- 19. Records of pre-stressed concrete containment tendon surveillances.

6.6 REPORTING REQUIREMENTS

In addition to the applicable reporting requirements of Title 10, Code of Federal Regulations, the following identified reports shall be submitted

SEE LTS 5.6>

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PLANT OPERATING RECORDS (Continued)

- Records of radiation exposure for all plant personnel, including all contractors and visitors to the plant, in accordance with 10 CFR Part 20;
- Records of radioactivity in liquid and gaseous wastes released to the environment;
- Records of transient or operational cycling for those components that have been designed to operate safety for a limited number of transient or operational cycles (identified in Table 5.7.1-1);
- Records of individual staff members indicating qualifications, experience, training, and retraining;
- 11. Inservice inspections of the reactor coolant system;
- 12. Minutes of meetings and results of reviews and audits performed by the offsite and onsite review and audit functions;
- 13. Records of reactor tests and experiments;
- 14. Records of Quality Assurance activities required by the QA Manual, except for those items specified in Section 6.5.A;
- Records of reviews performed for changes made to procedures on equipment or reviews of tests and experiments pursuant to 10 CFR 50.59;
- 16. Records of the service lives of all hydraulic and mechanical snubbers required by specification 3.7.9 including the date at which the service life commences and associated installation and maintenance records;
- Records of analyses required by the radiological environmental monitoring program;
- 18. Records of reviews performed for changes made to the OFFSITE DOSE CALCULATION MANUAL and the PROCESS CONTROL PROGRAM; and
- 19. Records of pre-stressed concrete containment tendon surveillances.

6.6 REPORTING REQUIREMENTS

5.6 In addition to the applicable reporting requirements of Title 10, Code of Federal Regulations, the following identified reports shall be submitted

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ITS 5.6

to the director of the appropriate Regional Office of Inspection and Enforcement unless otherwise noted.

A. Rautine Reports

in accordance with locar 50.4

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Startup Report

A summary report of plant startup and power escalation testing shall be submitted following (1) receipt of an operating license, (2) amendment to the license involving a planned increase in power level, (3) installation of fuel that has a different design or has been manufactured by a different fuel supplier, and (4) modifications that may have significantly altered the nuclear, thermal, or hydraulic performance of the plant. The report shall in general include a description of the measured values of the operating conditions or characteristics obtained during the test program and a comparison of these values with design predictions and specifications. Any corrective actions that were required to obtain satisfactory operation shall also be described. Any additional specific details required in license conditions based on other commitments shall be included in this report.

Startup reports shall be submitted within (1) 90 days following completion of the startup test program, (2) 90 days following resumption or commencement of commercial power operation, ox (3) 9 months following initial criticality, whichever is earliest. If the startup report does not cover all three events (i.e., initial criticality, completion of startup test program, and resumption or commencement of commercial power operation), supplementary reports shall be submitted at least every 3 months until all three events have been completed.

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Anhual Report

(Add proposed ITS 5.6.1 Note)

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5.6.1

A tabulation shall be submitted on an annual basis prior to March 1 of each year of the number of station, utility, and other personnel (including contractors) receiving exposures greater than 100 mrem/yr and their associated man rem exposure according to work and job functions (Note: this tabulation supplements the requirements of Section 20.00) of 10 CFR 20), e.g., reactor operations and surveillance, inservice inspection, routine maintenance, special maintenance (describe maintenance), waste processing, and refueling. The dose assignments to various duty functions may be estimated based on pocket dosimeter, TLD, or film badge measurements. Small exposures totaling less than 20% of the individual total dose need not be accounted for. In the aggregate, at least 80% of the total whole body dose received from external sources shall be assigned to specific major work functions.

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The results of specific activity analysis in which the primary coolant exceeded the limits of Specification 3.4.5 shall be included in the Annual Report along with the following information: (1) Reactor power history starting 48 hours prior to the first sample in which the limit was exceeded; (2) Results of the last isotopic analysis for radiologine performed prior to exceeding the limit, results of

analysis while limit was exceeded and results of one analysis after the radioiodine activity was reduced to less than limit. Each result should include date and time of sampling and the radioiodine concentrations; (3) Clean-up system flow history starting 48 hours A.6

ADMINISTRATIVE CONTROLS

see ITS

prior to the first sample in which the limit was exceeded; (4) Graph of the I-131 concentration and one other radioiodine isotope concentration in microcuries per gram as a function of time for the duration of the specific activity above the steady-state level; and (5) The time duration when the specific activity of the primary coolant exceeded the radioiodine limit.

Annual Radiological Environmental Operating Report*

The Annual Radiological Environmental Operating Report covering the operation of the unit during the previous calendar year shall be submitted before May 1 of each year. The report shall include summaries, interpretations, and analysis of trends of the results of the Radiological Environmental Monitoring Program for the reporting period. The material provided shall be consistent with the objectives outlined in (1) the ODCM and (2) Sections IV.B.2, IV.B.3, and IV.C of Appendix I to 10 CFR Part 50.

4. Annual Radioactive Effluent Release Report**

The Annual Radioactive Effluent Release Report covering the operation of the unit during the previous calendar year shall be submitted prior to May 1 of each year. The report shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the unit. The material provided shall be (1) consistent with the objectives outlined in the ODCM and PCP and (2) in conformance with 10 CFR 50.36a and Section IV.B.1 of Appendix I to 10 CFR Part 50.

5. Monthly Operating Report

Routine reports of operating statistics and shutdown experience, including documentation of all challenges to safety/relief valves, shall be submitted on a monthly basis to the addressees specified in 10 CFR 50.4 no later than the 15th of each month following the calendar month covered by the report.

A report of any major changes to the radioactive waste treatment systems shall be submitted with the Monthly Operating Report for the period in which the evaluation was reviewed and accepted by Onsite Review and Investigative Function.

Core Operating Limits Report

Core operating limits shall be established and documented in the CORE OPERATING LIMITS REPORT before each reload cycle or any remaining part of a reload cycle for the following:

A single submittal may be made for a multi-unit station. A single submittal may be made for a multi-unit station. The submittal should combine those sections that are common to all units at the station; however, for units with separate radwaste systems, the submittal shall specify the releases of radioactive material from each unit.

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ITS 5.6

prior to the first sample in which the limit was exceeded; (4) Graph of the I-131 concentration and one other radio adine isotope concentration in microcuries per gram as a function of time for the duration of the specific activity above-the steady-state level; and (5) The time duration when the specific activity of the primary coolant exceeded the radioiodine limit.

5.4.2 3. Annual Radiological Environmental Operating Report*

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The Annual Radiological Environmental Operating Report covering the operation of the unit during the previous calendar year shall be submitted before May 0 of each year. The report shall include summaries, interpretations, and analysis of trends of the results of the Radiological Environmental Monitoring Program for the reporting period. The material provided shall be consistent with the objectives outlined in (1) the ODCM and (2) Sections IV.B.2, IV.B.3, and IV.C of Appendix I to 10 CFR Part 50.

5.6.3 4. Annual Radioactive Effluent Release Report**

in accordance with 10 (FR 50.36a

The Annual Radioactive Effluent Release Report covering the operation of the unit during the previous calendar year shall be submitted prior to May 1 of each year. The report shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the unit. The material provided shall be (1) consistent with the objectives outlined in the ODCM and PCP and (2) in conformance with 10 CFR 50.36a and Section IV.B.1 of Appendix I to 10 CFR Part 50.

5. Monthly Operating Report

Routine reports of operating statistics and shutdown experience, including documentation of all challenges to safety/relief valves, shall be submitted on a monthly basis to the addressees specified in 10 CFR 50.4 no later than the 15th of each month following the calendar month covered by the report.

A report of any major changes to the radioactive waste treatment systems shall be submitted with the Monthly Operating Report for the period in which the evaluation was reviewed and accepted by Onsite Review and Investigative Function.

See CTS6.9

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5.6.5 6. Core Operating Limits Report

5.6.5.a

a. Core operating limits shall be established and documented in the CORE OPERATING LIMITS REPORT before each reload cycle or any remaining part of a reload cycle for the following:

5.6.2 Note 5.6.3 Note

A single submittal may be made for a multi-unit station. Proposed ITS 5.6.2 Note A single submittal may be made for a multi-unit station. The submittal should combine those sections that are common to all units at the station; however, for units with separate radwaste systems, the submittal shall specify the releases of radioactive material from each unit.

Core Operating Limits Report (Continued)

- 5.6.5.a.l (1) The Average Planar Linear Heat Generation Rate (APLHGR) for Technical Specification 3.2.1.
- 5.6.5.q.2 (2) The minimum Critical Power Ratio (MCPR) scram time dependent MCPR limits, and power and flow dependent MCPR limits for Technical Specification 3.2.3. Effects of analyzed equipment out of service are included.
- 5.6.5.a.3 (3) The Linear Heat Generation Rate (LHGR) for Technical Specification 3.2.4.
- 5.6.5.4 (4) The Rod Block Monitor Upscale Instrumentation Setpoints for Technical Specification Table 3.3.6-2.
- 5.6.3.6 b. The analytical methods used to determine the core operating limits shall be those previously reviewed and approved by the NRC. For LaSalle County Station Unit 2, the topical reports are:
- (1) ANFB Critical Power Correlation, ANF-1125(P)(A) and Supplements 1 and 2, Advanced Nuclear Fuels Corporation, April 1990.
 - Letter, Ashok C. Thadani (NRC) to R.A. Copeland (SPC), "Acceptance for Referencing of ULTRAFLOW" Spacer on 9x9-IX/X BWR Fuel Design," July 28, 1993.
 - Advanced Nuclear Fuels Corporation Critical Power Methodology for Boiling Water Reactors/Advanced Nuclear Fuels Corporation Critical Power Methodology for Boiling Water Reactors: Methodology for Analysis of Assembly Channel Bowing Effects/NRC Correspondence, XN-NF-524(P)(A) Revision 2 and Supplement 1 Revision 2, Supplement 2, Advanced Nuclear Fuels Corporation November 1990.
 - COTRANSA 2: A Computer Program for Boiling Water Reactor Transient Analysis, ANF-913(P)(A), Volume 1, Revision 1 and Volume 1 Supplements 2, 3, and 4, Advanced Nuclear Fuels Corporation, August 1990.
 - S.G.S.L.S (5) HUXY: A Generalized Multirod Heatup Code with 10 CFR 50, Appendix K Heatup Option, ANF-CC-33(P)(A), Supplement 1 Revision 1; and Supplement 2, Advanced Nuclear Fuels Corporation, August 1986 and January 1991, respectively.
 - Advanced Nuclear Fuel Methodology for Boiling Water Reactors, XN-NF-80-19(P)(A), Volume 1, Supplement 3, Supplement 3 Appendix F, and Supplement 4, Advanced Nuclear Fuels Corporation, November 1990.
 - Exxon Nuclear Methodology for Boiling Water Reactors:
 Application of the ENC Methodology to BWR Reloads,
 XN-NF-80-19(P)(A), Volume 4, Revision 1, Exxon Nuclear
 Company, June 1986.
- 5-6.5.6.2 (8) Exxon Nuclear Methodology for Boiling Water Reactors THERMEX: Thermal Limits Methodology Summary Description, XN-NF-80-19(P)(A), Volume 3, Revision 2, Exxon Nuclear Company, January 1987.

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Core Operating Limits Report (Continued)

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.6.5.6.9	(9)	Generic Mechanical Design for Exxon Nuclear Jet Pump BWR Reload Fuel, XN-NF-85-67(P)(A) Revision 1, Exxon Nuclear Company, September 1986.
5,6,5,6,10	(10)	Advanced Nuclear Fuels Corporation Generic Mechanical Design for Advanced Nuclear Fuels Corporation 9x9-IX and 9x9-9X BWR Reload Fuel, ANF-89-014(P)(A), Revision 1 and Supplements 1 and 2, October 1991.
5.6.5.6.11	(11)	Volume 1 - STAIF - A Computer Program for BWR Stability Analysis in the Frequency Domain, Volume 2 - STAIF - A Computer Program for BWR Stability Analysis in the Frequency Domain, Code Qualification Report, EMF-CC-074(P)(A), Siemens Power Corporation, July 1994.
5.6.5.6.12	(12)	RODEX2 Fuel Rod Thermal-Mechanical Response Evaluation Model, XN-NF-81-58(P)(A), Revision 2 Supplements 1 and 2, Exxon Nuclear Company, March 1984.
5.6.5.9.13	(13)	XCOBRA-T: A Computer Code for BWR Transient Thermal-Hydraulic Core Analysis, XN-NF-84-105(P)(A), Volume 1 and Volume 1 Supplements 1 and 2; Volume 1 Supplement 4, Advanced Nuclear Fuels Corporation, February 1987 and June 1988, respectively.
5.6.5.6.14	(14)	Advanced Nuclear Fuels Corporation Methodology for Boiling Water Reactors EXEM BWR Evaluation Model, ANF-91-048(P)(A), Advanced Nuclear Fuels Corporation, January 1993.
5.6.5.6.15	(15)	Exxon Nuclear Methodology for Boiling Water Reactors - Neutronic Methods for Design and Analysis, XN-NF-80-19(P)(A) Volume 1 and Supplements 1 and 2, Exxon Nuclear Company, Richland, WA 99352, March 1983.
5.6.5, 6.16	(16)	Exxon Nuclear Plant Transient Methodology for Boiling Water Reactors, XN-NF-79-71(P)(A), Revision 2 Supplements 1, 2, and 3, Exxon Nuclear Company, March 1986.
5.6.5.6.17	(17)	Generic Mechanical Design Criteria for BWR Fuel Designs, ANF-89-98(P)(A), Revision 1 and Revision 1 Supplement 1, Advanced Nuclear Fuels Corporation, May 1995.
5.6.5.6.18	(18)	NEDE-24011-P-A, "General Electric Standard Application for Reactor Fuel," (latest approved revision).
5,6,5,6,19	(19)	Commonwealth Edison Topical Report NFSR-0085, "Benchmark of BWR Nuclear Design Methods," (latest approved revision).
5,65,6,2	s ⁽²⁰⁾	Commonwealth Edison Topical Report NFSR-0085, Supplement 1, "Benchmark of BWR Nuclear Design Methods - Quad Cities Gamma Scan Comparisons," (latest approved revision).
5.6.5.6.21	(21)	Commonwealth Edison Topical Report NFSR-0085, Supplement 2, "Benchmark of BWR Nuclear Design Methods - Neutronic Licensing Analyses," (latest approved revision).
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Core Operating Limits Report (Continued)_

5.6.5.b, 22	(22)	Commonwealth Edison Topical Report NFSR-0091, "Benchmark of CASMO/MICROBURN BWR Nuclear Design Methods," Revision 0, Supplements 1 and 2, December 1991, March 1992, and May 1992, respectively; SER letter dated March 22, 1993.
5.6.5.6,23	(23)	BWR Jet Pump Model Revision for RELAX, ANF-91-048(P)(A), Supplement 1 and Supplement 2, Siemens Power Corporation, October 1997.
5.6.5.6.24	(24)	ANFB Critical Power Correlation Application for Coresident Fuel, EMF-1125(P)(A), Supplement 1, Appendix C, Siemens Power Corporation, August 1997.
5.6.5.6.25	(25)	ANFB Critical Power Correlation Determination of ATRIUM-9B Additive Constant Uncertainties, ANF-1125(P)(A), Supplement 1, Appendix E, Siemens Power Corporation, September 1998.

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Core Operating Limits Report (Continued)

- c. The core operating limits shall be determined so that all applicable limits (e.g., fuel thermal-mechanical limits, core thermal-hydraulic limits, ECCS limits, nuclear limits such as shutdown margin, and transient and accident analysis limits) of the safety analysis are met.
- d. The CORE OPERATING LIMITS REPORT, including any mid-cycle revisions or supplements thereto, shall be provided upon issuance, for each reload cycle, to the U.S. Nuclear Regulatory Commission Document Control Desk with copies to the Regional Administrator and Resident Inspector.
- B. Deleted

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- C. Unique Reporting Requirements
 - Special Reports shall be submitted to the Regional Administrator of the NRC Regional Office within the time period specified for each report.

PROCESS CONTROL PROGRAM (PCP) *

- 6.7.1 The PCP shall be approved by the Commission prior to implementation.
- 6.7.2 Licensee initiated changes to the RCP:
 - a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.5.B.18. This documentation shall contabo:
 - Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s), and
 - A determination that the change will maintain the overall conformance of the solidified waste product to existing requirements of Federal, State, or other applicable regulations.
 - b. Shall become effective upon review and acceptance by the Onsite Review and Investigative Function.

*The Process Control Program (PCP) is common to La Salle Unit 1 and La Salle Unit 2.

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Core Operating Limits Report (Continued)

- 5.6.5.C c. The core operating limits shall be determined so that all applicable limits (e.g., fuel thermal-mechanical limits, core thermal-hydraulic limits, ECCS limits, nuclear limits such as shutdown margin, and transient and accident analysis limits) of the safety analysis are met.
- 5.6.5.d d. The CORE OPERATING LIMITS REPORT, including any mid-cycle revisions or supplements thereto, shall be provided upon issuance, for each reload cycle, to the U.S. Nuclear Regulatory Commission (Document Control Desk with copies to the Regional)

 Administrator and Resident Inspector.
 - B. Deleted

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C. Unique Reporting Requirements

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1. Special Reports shall be submitted to the Regional Administrator of the SRC Regional Office product the time period specific for sample special control of the SRC Regional Office product the time period special control of the SRC Regional Office product the submitted for the submitted for sample special control of the sample special control of the submitted for the s

6.7 PROCESS CONTROL PROGRAM (PCP) .

- 6.7.1 The PCP shall be approved by the Commission prior to implementation.
- 6.7.2 Licensee initiated changes to the PCP:
 - a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.5.B.18. This documentation shall contain:
 - Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s), and
 - 2) A determination that the change will maintain the overall conformance of the solidified waste product to existing requirements of Federal, State, or other applicable regulations.
 - b. Shall become effective upon review and acceptance by the Onsite Review and Investigative Function.

*The Process Control Program (PCP) is common to La Salle Unit 1 and La Salle Unit 2.

LA SALLE UNIT 2

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- 6.8 OFFSITE DOSE CALCULATION MANUAL TODOM) *
- 6.8.1 The ODCH shall be approved by the Commission prior to implementation.
- 6.8.2 Licensee initiated changes to the ODCH:
 - a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.5.B.18. This documentation shall contain:
 - sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s), and
 - 2) A determination that the change will maintain the level of radioactive effluent control required by 10 CFR 20.106, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR Part 50 and not adversely impact the accuracy or reliability of effluent, dose, or setpoint calculations.
 - b. Shall become effective after review and acceptance by the On-Site Review and Investigative Function and the approval of the Plant Hanager on the date specified by the On-Site Review and Investigative Function.
 - c. Shall be submitted to the Commission in the form of a complete, legible copy of the entire ODCM as a part of or concurrent with the Annual Radioactive Effluent Release Report for the period of the report in which any change to the ODCM was made effective. Each change shall be identified by markings in the margin of the affected pages, clearly indicating the area of the page that was changed, and shall indicate the date (e.g., month/year) the change was implemented.

9 MAJOR CHANGES TO RADIOACTIVE WASTE TREATMENT SYSTEMS

6.9.1 Licensee initiated major changes by the radioactive waste treatment systems (liquid, gaseous and solid):

Shall be reported to the Commission in the Monthly Operating Report for the period in which the evaluation was reviewed by the Onsite Review and Investigative Function. The discussion of each change shall contain:

 A summary of the evaluation that led to the determination that the change could be made in accordance with 10 CFR 50.59;

The OFFSITE DOSE CALCULATION MANUAL (ODCH) is common to La Salle Unit 1 and La Salle Unit 2.

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LA SALLE UNIT 2

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5.5. 6.8 OFFSITE DOSE CALCULATION HANUAL TODCH)*

6.8.1 The ODCH shall be approved by the Commission prior to implementation

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6.8.2 Licensee initiated changes to the ODCM:

5,5,1,c.1

a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.5 B.18. This documentation shall contain:

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5.5,1,c,1(a)

1) Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s), and 1302

5,5,1,c,1(b)

2) A determination that the change will maintain the level of radioactive effluent control required by 10 CFR 20.086, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR Part 50 and not adversely impact the accuracy or reliability of effluent, dose, or setpoint calculations.

5.5.1. C.2

b. Shall become effective after review and acceptance by the On-Site (Review and Investigative Function and the approval of the (Fig.)

Manager on the date specified by the On-Site Review and Investigative Punction

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c. Shall be submitted to the Commission in the form of a complete, legible copy of the entire ODCM as a part of or concurrent with the Annual Radioactive Effluent Release Report for the period of the report in which any change to the ODCM was made effective. Each change shall be identified by markings in the margin of the affected pages, clearly indicating the area of the page that was changed, and shall indicate the date (e.g., month/year) the change was implemented.

6.9 MAJOR CHANGES TO RADIOACTIVE WASTE TREATHERT SYSTEMS

SEE (CTS 6.9)

6.9.1 Licensee initiated major changes to the radioactive waste treatment systems (liquid, gaseous and solid):

- a. Shall be reported to the Commission in the Monthly Operating Report for the period in which the evaluation was reviewed by the Onsite Review and Investigative Function. The discussion of each change shall contain:
 - A summary of the evaluation that led to the determination that the change could be made in accordance with 10 CFR 50.59;

*The OFFSITE DOSE CALCULATION MANUAL (ODCM) is common to La Salle Unit 1 and La Salle Unit 2.

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MAJOR CHANGES TO RADIOACTIVE WASTE TREATHENT SYSTEMS (Continued)

- Sufficient detailed information to totally support the reason for the change without benefit or additional or supplemental information;
- A detailed description of the equipment, components and processes involved and the interfaces with other plant systems;
- 4. An evaluation of the change which shows the predicted releases of radioactive materials in liquid and gaseous effluents and/or quantity of solid waste that differ from those previously predicted in the license application and amendments thereto;
- 5. An evaluation of the change which shows the expected maximum exposures to individual in the unrestricted area and to the general population that differ from those previously estimated in the license application and amendments thereto;
- 6. A comparison of the predicted releases of radioactive materials, in liquid and gaseous effluents and in solid waste, to the ctual releases for the period to when the changes are to be made;
- An estimate of the exposure to plant operating personnel as a result of the change; and
- Documentation of the fact that the change was reviewed and found acceptable by the Onsite Review and Investigative Function.
- b. Shall become effective upon review and acceptance by the Onsite Review and Investigative Function.

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