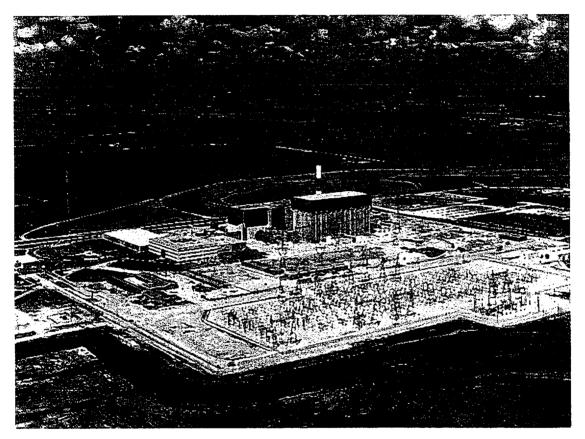
Improved Technical Specifications

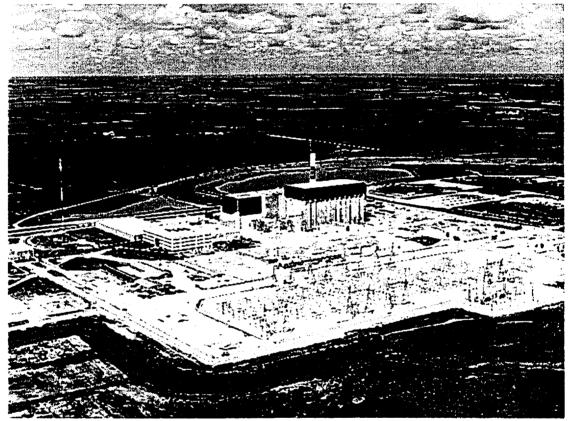


LaSalle County Station

Volume 12: Unit 1 CTS Markup In CTS Order



Improved Technical Specifications



LaSalle County Station

Volume 12: Unit 1 CTS Markup In CTS Order



			A.1		ITS Chapter 1.0	
1.1		NITIONS				_
Note to Definitions	Shall be	wing terms are may be achieve applicable thro	defined so that u d The defined t ughout these Tech	niform interpretat. erms appear in cap nical Specification (of this sector	ion of these speci- italized type and ns. and Bases	A.1
		S ON shall be tha ures required u	t part of a Speci nder designated t	fication which pre- onditions.)	} A.]
	12 DEL	-		(Completion Times)		
			AT GENERATION RAT			7
(Гне		e to a specific	planar height ar F9 for all the fu	ATTION RATE OAPLHGR ad is equal to the ael rods in the spe aer of fuel rods in	cified bundle at the the fuel bundle.	}- <u>A</u> .1
	<u>CHANNEL C</u>	ALIBRATION			(at the height)	٦
	chan accu CHAN requ CHAN resi of a cali CHAN over	nel output such racy to known v NEL CALIBRATION ired sensor. al NEL FUNCTIONAL stance temperat n inplace quali bration of the NEL CALIBRATION	that it responds alues of the para shall encompass arm, display, and TEST. Calibratic ure detector (RTI tative assessment remaining adjusta may be performed)) or thermocouple ; of sensor behavio able devices in the	nnel monitors. The including the nd shall include the annels with sensors may consist r and normal channel. The eries of sequential.	A.I
	<u>CHANNEL C</u>	HECK		Ø)	2
	duri poss indi	ng operation by	observation. If n of the channel status derived fi	ative assessment of ins determination s indication and go rom independent ins	status (WILD) other	A.1
	CHANNEL F	UNCTIONAL TEST				A./
	A CH	ANNEL FUNCTION	AL TEST shall be		(or actual)	
		Channel a OPERABIL failure	is close to the si Typincluding ala trips.	ensor/as/practicable rmand/op trip func unterlock, dis	ed signal into the e to verify tions and channel	A-3
					ated signal (into the) and or trip	
	The over	CHANNEL FUNCTION In the CHANNEL FUNCTION INTERCENCE FUNCTION IN THE CHANNEL FUNCTION INTERCENCE FUNCTION INTERCENCENCE FUNCTION INTERC	DNAL TEST may be tal channel steps	such that the ent	is af) eries of sequential. ire channel is tested.	-A.I

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lage 1 of 29

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DEFI	NITIC	NS	A,I	ITS Chap	ter 1.0
CORE	ALTE	RATION			()
ক্ষ	and	roi components, withir	The reactor vessel	uel. sources. or reactive with the vessel head remo ons are not considered to	nved
	а.	Movement of source ra intermediate range mo movable detectors (in	nitors, traversing i	ncore probes or special	
	b.	Control rod movement, associated core cell.	provided there are a	no fuel assemblies in the	
	Suspe compo	ension of CORE ALTERAT	IONS shall not preclu	ude completion of movemen	tofa
CORE	OPERA	TING LIMITS REPORT (CO	LR)		
Specific Datameter	speci accor	fic core operating lin	the current $Operating fits shall be determined on 6.6.4.5. Plant control of the second se$	pecific document that propression of the propression of the property of the period of	100 \411
CRIZI	CAL P	OWEB RATIO	(<u>5.6,5</u>) (13)	appropriate)	(J) []
(mar)	to ca		PRO Short De Che rat d by application of assembly to experien	10 of that power) in the the approved CPB correlat ce boiling transition, di	tion (vided
DOSE E	OUIV	ALENT 1-131		(Insect un definition	nto MCPR
n t a	hixtur hyroi istec ind Te	dose conversion fac in Table III of TID- est Reactor Sites	133. I-134, and I-13 tors used for this ca	on of I-131 (microcuries/ as the quantity and isot 5 actually present. The alculation shall be those of Distance Factors for P	gram), opic } A.1
		ISINTEGRATION ENERGY			~
t	he av	erage beta and gamma	mergies per disinter	to the concentration of each of sampling, of the sum of	of Lan
		-	or ICRP 30, Suppleme	y Guide 1.109, Rev. 1, NRC, wt to Part 1, pages 192-21: Equivalent in Target Organ Unit Activity. "	2, Table
LA SALI	LE UN	IT 1	1-2		

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DEFI	NITIONS

ITS Chapter 1.0

EMERGENCY CORE COOLING SYSTEM (ECCS) RESPONSE TIME

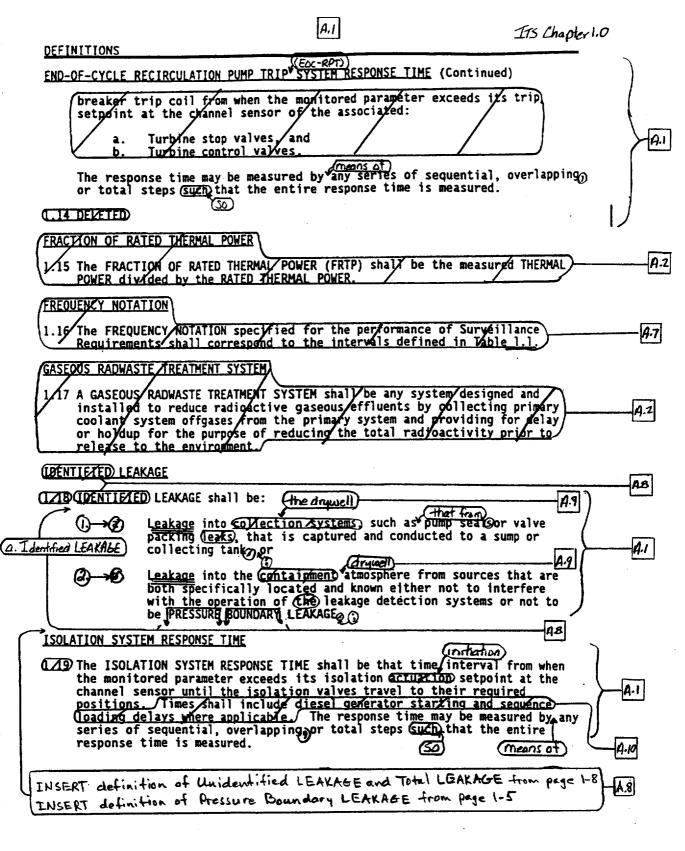
(1.22) The CENERGENCY CORE COOLING SYSTEM DECCSD RESPONSE TIME shall be that time	
interval from when the monitored parameter exceeds its ECCS actuation (indiation)	
setpoint at the channel sensor until the ECCS equipment is capable of	
performing its safety function $p(i.e., the values travel to their required \int [$	A.Í
posiciona, pomp discligine piessuies (eduli thell tennited volues, ell'sal mes / r	
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	
(EDC-RPD) (Means of)	
END-OF-CYCLE RECIRCULATION PUMP TRIP SYSTEM RESPONSE TIME (FOR THE	
EDC-RP1	
(1/13) The END-OF-CYCLE REGIRCULATION PUMP TRIP SYSTEM RESPONSE TIME shall be that	
time interval to emergization of the recirculation pump circuity	
(Insert) A6	

A.1

LA SALLE UNIT 1

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Amendment No. 116

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[A1]	ITS Chapter 1.0
	A.I
TERN shall be a pattern which redraulic limit, i.e., operating (MCPR.	esults in the A.2
5R)	
LHGR shall be the heat gene the integral of the heat flux ith the unit length. LHGR is m specific limit, as specified in	over the heat onitored by the the CORE
(rea	A.1
TEST shall be a test of allylog ts, all trip units, solid state rom, sensor, through and includin ry. THE LOGIC SYSTEM FUNCTIONAL sequential, overlapping, or tot system is tested. <u>As close to the</u> <u>As practuable</u>	ic components, logic elements, g the actuated L TEST may be (upto, botnof) All
<u></u>	Lil
all include all persons who are This category does not include or vendors. Also excluded fro to service equipment or to make ons who use portions of the site poses not associated with the p	e employees of the m this category are deliveries. This for recreational,
RATIO NCPRO shall be the smal	A5 the methodology sulting from ion of gaseous in the conduct • ODCM shall diological pecification hat should be ng and Appual
	ZRN shall be a pattern which r raulic limit, i.e., operating MCPR. R) DLHGRD shall be the heat gene the integral of the heat flux th the unit length. LHGR is m pecific limit, as specified in pecific limit, as specified in requested in the state of allylog s, all trip units, solid state om sensor. Chrough and includin Y. THE COGIC SYSTEM FUNCTIONA sequential, overlappingsor tot system is tested. (As class to the as prachable) ll include all persons who are This category does not includ or vendors. Also excluded fro to service equipment or to mak ne who use portions of the sit cases not associated with the p (PR) (RATIO INCERD shall be the smal as office) in the calculat ing AlaryTry Setpoints, and cograme required by Technical S criptions of the information t ological Environmental Operati e Reports required by Technical S criptions of the information t ological Environmental Operatic a.

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DEFINITIONS

1.20 Deleted

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.

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.

MAXIMUM FRACTION OF LIMITING POWER DENSITY

1.24 The MAXIMUM FRACTION OF LIMITING POWER DENSITY (MFLPD) shall be the highest value of the FLPD which exists in the core.

MEMBER(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

5.5.1.9

5.5.1.6

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.

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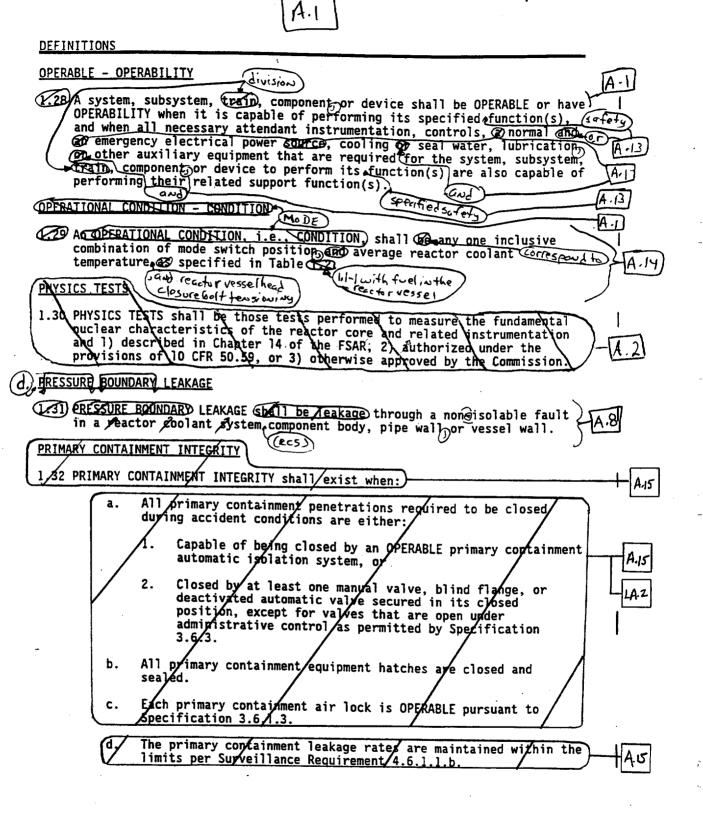
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ITS 5.5



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DEFINITIONS The suppression chamber is OPERABLE pursuant to Specification A15 3 6/2 1 The sealing mechanism associated with each primary containment کنه penetration; e.d., welds, bellows for O-rings, is OPERABLE Primary containment structural integrity has been verified in g. accordance with Surveillance Requirement 4.6.1 A.e. A.15 PROCESS CONTROL PROGRAM 1.33 The PROCESS CONTROL PROGRAM (PCP) 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 demonstrated processing of actual or simulated wet solid wastes will be accomplished in such a way as to assure compliance with 10 CFR 20, 61, and 71, State regulations, burial ground A.16 requirements, and other requirements governing the disposal of solid Moved to ITS radioactive waste. PURGE - PURGING 1.34 RURGE 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 (RTP) RTP (1.35) RATED THERMAL POWER shall be a total reactor core heat transfer rate to łA . [] the reactor coolant of 3323 MWT. (RPS) REACTOR PROTECTION SYSTEM RESPONSE The RPS that (1.36 REASOR PROTECTION SYSTEM RESPONSE TIME shall be time interval from when the monitored parameter exceeds its trip setpoint at the channel RPS sensor until de-energization of the scram pilot valve solenoids. Α. The response time may be measured by any series of sequential, overlapping or total steps (such that the entire (response time is measured. ଓଡ (Means of) REPORTABLE EVENT 1.37 A REPORTABLE EVENT shall be any of those conditions specified in A.z 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. AN rods fully inserted is equivalent to 100% ROB DENSITY.

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LA SALLE UNIT 1

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ITS Chapter 1.0

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See ITS chapter 1.0> CT56.7 DEFINITIONS The suppression chamber is OPERABLE pursuant to Specification e. 3.6.2.1. The sealing mechanism associated with each primary containment f. penetration; e.g., welds, bellows or O-rings, is OPERABLE. Primary containment structural integrity has been verified in g. accordance with Surveillance Requirement 4.6.1.1.e. PROCESS CONTROL PROGRAM 1.33 The PROCESS CONTROL PROGRAM (PCP) 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 demonstrated processing of actual or simulated wet 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 sol ILA.(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>

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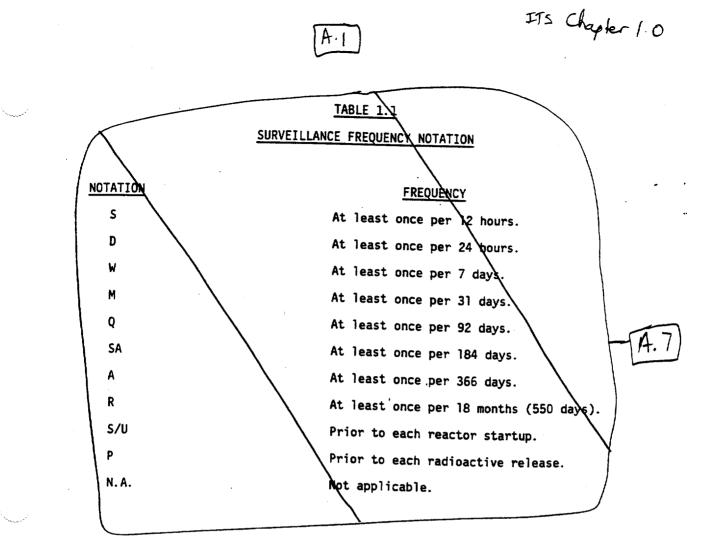
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ITS Chapter 1.0 A.1 DEFINITIONS SECONDARY CONTAINMENT INTEGRITY 1.39 SECONDARY CONTAINMENT INTEGRITY shall exist when: All secondary containment penetrations required to be closed а. during accident conditions are either: Capable of being closed by an OPERABLE secondary A.K containment automatic isolation system, or Closed by at least one manual valve, blind flange, op 2. deactivated automatic damper secured in its closed position, except as provided in Table 3.6.5.2-1 of Specification 3.6.5.2 All secondary containment hatches and blowout papels are closed b. A15 4.2 and sealed. The standby gas treatment system is OPERABLE pursuant to c. Specification 3.6.5.3 Ais At least one door in each access to the secondary containment d. is closed. The sealing mechanism associated with each secondary e. containment penetration, e.g., welds, bellows or O-rings, A.15 OPERABLE, The pressure within the secondary containment is less than or equal to the value requiped by Specification 4.6.5. J.a. AIS SHUTDOWN MARGIN (SDM) SDM) that . (Cr 510 SHULDOWN MARGIN shall be the amount of reactivity by which the reactor is subcritical or would be subcritical assuming all control rods are fully 4 inserted except for the single control rod of highest reactivity worth which is assumed to be fully withdrawn and the reactor is in the skutdown condition; sold, i.e. 68°F; and xenon free Time 12 (17) Insert 2 (b. The no berator G. The reactor is A.17 SITE BOUNDARY temperatureis 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

Amendment No. 102

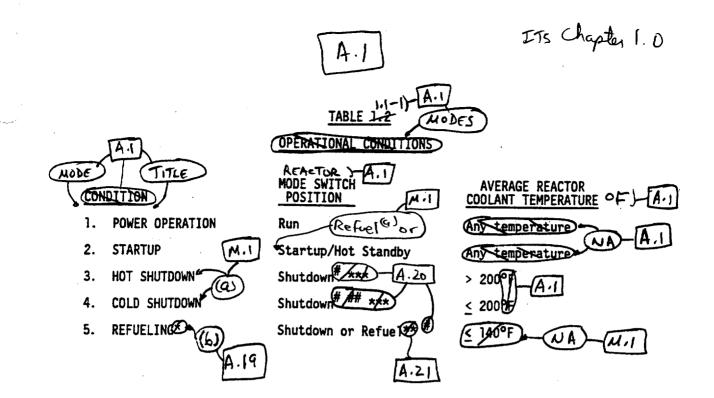
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ITS Chapter 1.0 A . I DEFINITIONS SOURCE CHECK A. 2 1.42 A SOURCE CHECK shall be the qualitative assessment of channel response when the channel sensor is exposed to a radioactive source. STAGGERED TEST BASIS A. A STAGGERED TEST BASIS shall consist of Eusert 3 A test schedule for h systems, subsystems, trains or other designated components obtained by dividing the specified test A.18 interval into n equal subintervals. The testing of one system, subsystem, train or other designated Ь. 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 sign that the entire response time is measured. means of UNIDENTIFIED LEAKAGE ALL to the dry well that 1.46 UNEDENTIFIED LEAKAGE (Shall be all leakage which is not IDENTIFIED) LEAKAGE 1A.8 VENTILATION EXHAUST TREATMENT SYSTEM A VENTILATION EXHAUST TREATMENT SYSTEM shall be any system designed and 1.47 installed to reduce gaseous radia iodine or radioactive material in particulate form in effluents by passing ventilation or vent exhaust gases through charcoal adsorbers and/or HEPA filters for the purpose of 1A · 2 removing iodines or particulates from the gaseous exhaust stream prior to the relaase to the environment (such a system is not considered to have any effect on noble gas effluents). Engineered Safety Feature (ESL) atmospheric cleanup systems are not considered to be VENTILATION EXNAUST TREATMENT SYSTEM components. VENTING 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 a manner that replacement air or gas is not provided or required during VENNING. Vent, used in system names, A. 2 does not imply a VENTING process. AS LA SALLE UNIT 1 1-8 Amendment No. 102 TOTAL LEAKAGE C. Page (1 of 29 SUM OF THE IDENTIFIED AND UNIDENTIFIED LEAKAGE; AND



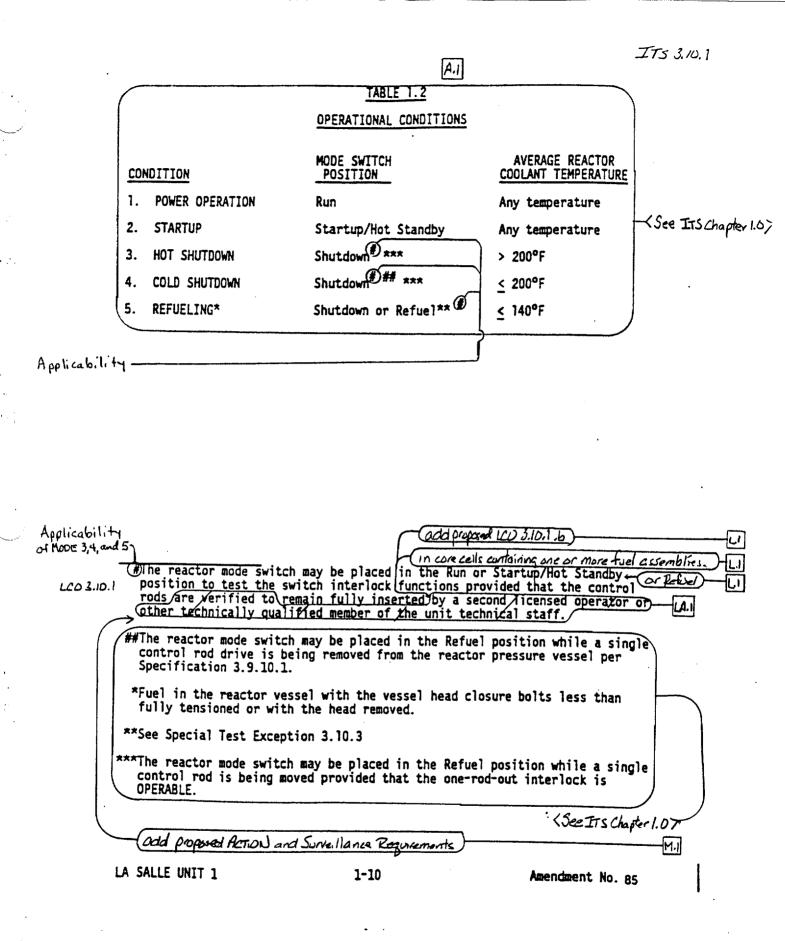
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N-1 (a) All reactor vessel head closure botts fully tensioned, A.20 #The reactor mode switch may be placed in the Run or Startup/Hot Standby position to test the switch interlock functions provided that the control moved to 115 3.10.1. rods are verified to remain fully inserted by a second licensed operator or other technically qualified member of the unit technical staff. A-20 ##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 moved to Specification 3.9.10.1 ITS 3.10.3 (b) * ue in the reactor vessel the vessel head closure bolts less than fully tensioned or with the head removed One or more reactor A.19 A-1 A.21 **See Special Test Exception 3.10.3 A.20 ***The reactor mode switch may be placed in the Refuel position while a single Movel to control rod is being moved provided that the one-rod-out interlock is ITS 3.10.2 OPERABLE. and 10 3.103 add proposed Sections 1.2, 1.3, and 1.4 LA SALLE UNIT 1 1-10 Amendment No. 85

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۰ .		A.1		ITS 3.10.2
		TABLE 1.2		١
· ·		OPERATIONAL CONDITIONS		
an a	CONDITION	MODE SWITCH POSITION	AVERAGE REACTOR COOLANT TEMPERATURE	
	1. POWER OPERATION	Run	Any temperature	
	2. STARTUP	Startup/Hot Standby	Any temperature	
Applicability-	3. HOT SHUTDOWN	Shutdown# ***	> 200°F	
	4. COLD SHUTDOWN	Shutdown# ## ***	≤ 200°F	•
	5. REFUELING*	Shutdown or Refuel** #	- < 140°F	
	rods are verified to remain	may be placed in the Run or tch interlock functions pro ain fully inserted by a sec ed member of the unit tech	vided that the control	or
	##The reactor mode switch m control rod drive is bein Specification 3.9.10.1.	may be placed in the Refuel ng removed from the reactor	position while a sing pressure vessel per	le
Applicability	*Fuel in the reactor vesse fully tensioned or with t	ne nead removed.	sure bolts less than	
of MODE 3	**See Special Test Exceptio	n 3.10.3)
للا 03, 10 , 14 للام3, 10, 2, م	- OPERABLE add propried	ay be placed in the Refuel d provided that the one-ro (Lco3.10.2.b,c,and d) (TION) and Surve. Name Regimen	d-out interlock is)e M.) M.)
:	LA SALLE UNIT 1	1-10	Amendment No. 85	

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· .		A,	l	ITS 3.10.3
		TABLE 1.2)
, <u>.</u>		OPERATIONAL CONDITIONS		
×	CONDITION	MODE SWITCH POSITION	AVERAGE REACTOR COOLANT TEMPERATURE	
	1. POWER OPERATION	Run	Any temperature	
	2. STARTUP	Startup/Hot Standby	Any temperature	< See ITS Chapter 1.0>
	3. HOT SHUTDOWN	Shutdown * ***	> 200°F	
Applicability_	4. COLD SHUTDOWN	Shutdown# (##) ***	<u><</u> 200°F	. •
, thtue	5. REFUELING*	Shutdown or Refuel** #	≤ 140°F	
\sim $^{\circ}$	#The reactor mode switch in position to test the switch	may be placed in the Run or tch interlock functions pro	r Startup/Hot Standby	
Applicability	I rous are verified to rem	ain fully inserted by a sec ied member of the unit tecl	rond licensed operator	or
of Mode 4	##The reactor mode switch i			
103.16.	3 control rod drive is bein Specification 3.9.10.1.	ng removed from the reactor	r pressure vessel per	jie
	*Fuel in the reactor vesse fully tensioned or with	el with the vessel head clo the head removed.	osure bolts less than	See Frs Charter 102
	**See Special Test Exception	on 3.10.3		See ITS Chapter 1.0>
LCU3.10.3 { LCU3.10.3 {	UPERABLE.	may be placed in the Refuel ad provided that the one-ro	position while a sing od-out interlock is	lle
	(Appirability of MODEY)		•.	
		3.10.3.6.1 control red position inc	dication requirement)	H
ļ	LA SALLE UNIT 1	<u>1-10</u>	Amendment No. 8	

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2.0 SAFETY LIMITS AND LIMITING SAFETY SYSTEM SETTINGS 2.1 SAFETY LIMITS 2.1 SAFETY LIMITS THERMAL POWER. Low Pressure or Low Flow 2.1.1 THERMAL POWER shall not exceed 25% of RATED THERMAL POWER with the react vessel steam dome pressure less than 785 psig or core flow less than 10% of rated flow. (APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2) ACTION: With THERMAL POWER exceeding 25% of RATED THERMAL POWER and the reactor vessel steam dome pressure less than 785 psig or core flow less than 10% of rated flow, be in at leas HOT SHUTDOWN within 2 hours and comply with the requirements of Specification 6.4) THERMAL POWER. High Pressure and High Flow 2.1.2 The MINIMUM CRITICAL POWER RATIO (MCPR) shall not be less than 1.11 with two recirculation loop operation and shall not be less than 1.12 with single recirculation loop operation with the reactor vessel steam dome pressure(greater than) 785 psig and core flow (greater than) 10% of rated flow. APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2)	or
THERMAL POWER. Low Pressure or Low Flow 2.1.1 THERMAL POWER shall not exceed 25% of RATED THERMAL POWER with the reactivessel steam dome pressure less than 785 psig or core flow less than 10% of rated flow. APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2) ACTION: With THERMAL POWER exceeding 25% of RATED THERMAL POWER and the reactor vessel steam dome pressure less than 785 psig or core flow less than 10% of rated flow, be in at leas than dome pressure less than 785 psig or core flow less than 10% of rated flow, be in at leas HOT SHUTDOWN within 2 hours and comply with the requirements of Specification 6.4) THERMAL POWER. High Pressure and High Flow 2.1.2 The MINIMUM CRITICAL POWER RATIO (MCPR) shall not be less than 1.11 with two recirculation loop operation and shall not be less than 1.12 with single recirculation loop operation with the reactor vessel steam dome pressure(greater than) 785 psig and core flow greater than) 785 psig and core flow	
2.1.1 THERMAL POWER shall not exceed 25% of RATED THERMAL POWER with the reactivessel steam dome pressure less than 785 paig or core flow less than 10% of rated flow. APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2 ACTION: With THERMAL POWER exceeding 25% of RATED THERMAL POWER and the reactor vessel team dome pressure less than 785 paig or core flow less than 10% of rated flow, be in at leas 10T SHUTDOWN within 2 hours and comply with the requirements of Specification 5.4 THERMAL POWER. High Pressure and High Flow 1.2 The MINIMUM CRITICAL POWER RATIO (MCPR) shall not be less than 1.11 with two accruation loop operation and shall not be less than 1.12 with single recirculation loop peration and shall not be less than 1.12 with single recirculation loop peration with the reactor vessel steam dome pressure(greater than) 785 psig and core flow reater than) 10% of rated flow.	
essel steam dome pressure less than 785 psig or core flow less than 10% of rated flow. PPLICABILITY: OPERATIONAL CONDITIONS 1 and 2 ACTION: With THERMAL POWER exceeding 25% of RATED THERMAL POWER and the reactor vessel learn dome pressure less than 785 psig or core flow less than 10% of rated flow, be in at leas I/OT SHUTDOWN within 2 hours and comply with the requirements of Specification 5.4 HERMAL POWER. High Pressure and High Flow 1.2 The MINIMUM CRITICAL POWER RATIO (MCPR) shall not be less than 1.11 with two recruitation loop operation and shall not be less than 1.12 with single recirculation loop peration with the reactor vessel steam dome pressure greater than 785 psig and core flow reater than 10% of rated flow.	זכ
ACTION: With THERMAL POWER exceeding 25% of RATED THERMAL POWER and the reactor vesses theam dome pressure less than 785 psig or core flow less than 10% of rated flow, be in at leas HOT SHUTDOWN within 2 hours and comply with the requirements of Specification 6.4 HERMAL POWER. High Pressure and High Flow 2.1.2 The MINIMUM CRITICAL POWER RATIO (MCPR) shall not be less than 1.11 with two ecirculation loop operation and shall not be less than 1.12 with single recirculation loop operation with the reactor vessel steam dome pressure (greater than) 785 psig and core flow reater than 10% of rated flow.	
With THERMAL POWER exceeding 25% of RATED THERMAL POWER and the reactor vesses steam dome pressure less than 785 psig or core flow less than 10% of rated flow, be in at leas HOT SHUTDOWN within 2 hours and comply with the requirements of Specification 6.4 THERMAL POWER. High Pressure and High Flow 2.1.2 The MINIMUM CRITICAL POWER RATIO (MCPR) shall not be less than 1.11 with two recirculation loop operation and shall not be less than 1.12 with single recirculation loop operation with the reactor vessel steam dome pressure greater than 785 psig and core flow greater than 10% of rated flow.	
Heam dome pressure less than 785 psig or core flow less than 10% of rated flow, be in at leas HOT SHUTDOWN within 2 hours and comply with the requirements of Specification 5.4 HERMAL POWER. High Pressure and High Flow 2.1.2 The MINIMUM CRITICAL POWER RATIO (MCPR) shall not be less than 1.11 with two ecirculation loop operation and shall not be less than 1.12 with single recirculation loop operation with the reactor vessel steam dome pressure greater than 785 psig and core flow reater than 10% of rated flow.	
2.1.2 The MINIMUM CRITICAL POWER RATIO (MCPR) shall not be less than 1.11 with two ecirculation loop operation and shall not be less than 1.12 with single recirculation loop operation with the reactor vessel steam dome pressure greater than 785 psig and core flow reater than 10% of rated flow.	2 1 t
ecirculation loop operation and shall not be less than 1.12 with single recirculation loop operation with the reactor vessel steam dome pressure(greater than) 785 psig and core flow reater than 10% of rated flow.	
greater than 10% of rated flow.	. •
PPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.	
ACTION:	
With MCPR less than 1.11 (with two recirculation loop operation or less than 1.12 with single ecirculation loop operation) and the reactor vessel steam dome pressure (preater than) 785 psig and core flow greater than 10% of rated flow, be in at least HOT SHUTDOWN within 2 hours (ar comply with the requirements of Specification 6.4)	<u>íð)</u>
REACTOR COOLANT SYSTEM PRESSURE	,
2.1.3 The reactor coolant system pressure, as measured in the reactor vessel steam dome, that not exceed 1325 psig.	
APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, and 4.	
ACTION:	
Vith the reactor coolant system pressure, as measured in the reactor vessel steam dome, abov 325 psig, be in at least HOT SHUTDOWN with reactor coolant system pressure less than or qual to 1325 psig within 2 hours and comply with the requirements of Specification 6.4.	æ

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	A.I	IT5 Chapter 2
SAFETY LIMITS (AND LIMITING SAFETY	SYSTEM SETTINGS	
		mov ITS
SAFETY LIMITS (Continued)		
REACTOR VESSEL WATER LEVEL		
2.1.4 The reactor vessel water le irradiated fuel.	vel shall be above the top	of the active
APPLICABILITY: OPERATIONAL CONDIT	IONS 3, 4 and 5	
ACTION:	(wrthin 2 hours)	
With the reactor vessel water leve fuel, manually initiate/the ECCS/to izing the reactor vessel if	1/at on holey the ten of a	he active irradiated
(izing the reactor vessel, if require Specification 6.4.)	red. Comply with the requ	<u>atter depressur-</u>)/ irements of
CPUPILIUNUPILUATA		<u>k</u> :

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ITS Chapter 2.0	
SAFETY LIMITS AND LIMITING SAFETY SYSTEM SETTINGS	
2.2 LIMITING SAFETY SYSTEM SETTINGS	
REACTOR PROTECTION SYSTEM INSTRUMENTATION SETPOINTS	
2.2.1 The reactor protection system instrumentation setpoints shall be set consistent with the Trip Setpoint values shown in Table 2.2.1-1.	
APPLICABILITY: As shown in Table 3.3.1-1.	
ACTION:	R2
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.	moved to ITS 3.3.1.1

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ITS 3.3.1.1

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SAFETY LIMITS AND LIMITING SAFETY SYSTEM SETTINGS

(2.2 LIMITING SAFETY SYSTEM SETTINGS - A.11) REACTOR PROTECTION SYSTEM INSTRUMENTATION SETPOINTS 2.2.1 The reactor protection system instrumentation

LCO 3.3.1.1 2.2.1 The reactor protection system instrumentation setpoints shall be set consistent with the Arp Setpointy values shown in Table (2.2.1-1) APPLICABILITY: As shown in Table 3.3.1-1. Alloumble [1A.7]

ACTION:

ACTIONS A, B, and C

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

LA SALLE - UNIT 1

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REACTOR PROTECTION SYST	-	•• • • • • • • • •
FUNCTIONAL UNIT	TRIP_SETPOINT	ALLOWABLE VALUES
1. Intermediate Range Monitor, Neutron Flux-High	<u>120 divisions of</u> <u>full scale</u>	<pre>< 122 divisions of full scale</pre>
 Average Power Range Monitor: a. Neutron Flux-High, Setdown 	\leq 15% of RATED THERMAL POWER	≤ 20% of RATED THERMAL POWER
 b. Flow Biased Simulated Thermal Power - Upse 1) Two Recirculation Loop Operation 	cale	
a) Flow Blased	<pre>< 0.58W + 59% with a maximum of</pre>	<pre>< 0.58W + 62% with maximum of</pre>
b) High Flow Clamped	113.5% of RATED THERMAL POWER	<pre></pre>
 Single Recirculation Loop Operation Flow Biased 	< 0.58W + 54.3% with	
b) High Flow Clamped	a maximum of < 113.5% of RATED THERMAL POWER	≤ 0.58W + 57.3% wi a maximum of ≤ 115.5% of RATED THERMAL POWER
c. Fixed Neutron Flux-High	\leq 118% of RATED THERMAL POWER	120% of RATED THERMAL POWER
3. Reactor Vessel Steam Dome Pressure - High	<u><</u> 1043 psig	<u><</u> 1063 psig
4. Reactor Vessel Water Level - Low, Level 3	> 12.5 inches above instrument zero*	> 11.0 inches above instrument zero*
*See Bases Figure B 3/4 3-1.		
НЗ		
The second	(1)	

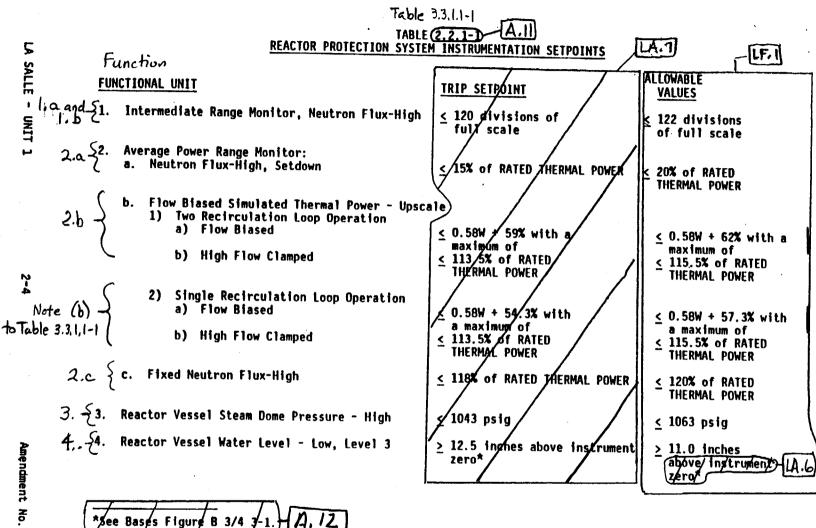
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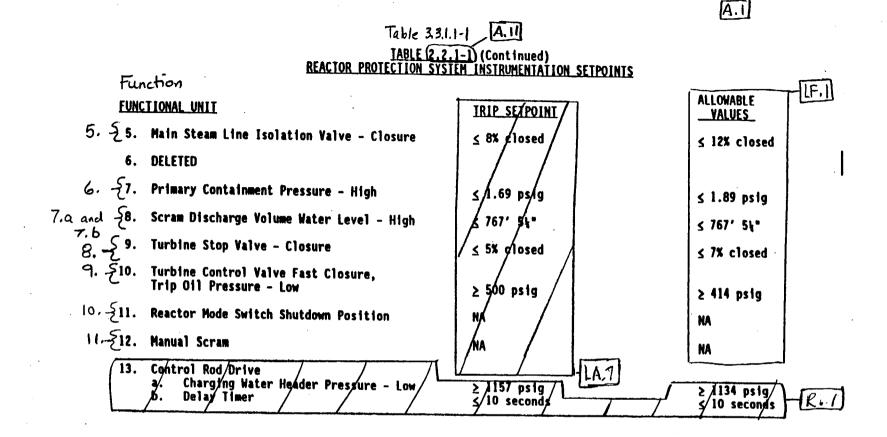
IABLE 2.1 REACTOR PROTECTION SYS	2 <u>11-1</u> (Continued) TEM INSTRUMENTATION_SETPOINTS	
EUNCTIONAL UNIT	IRIP_SETPOINT	ALLOWABLE
5. Main Steam Line Isolation Valve - Closure	≤8% closed	≤ 12% closed
6. DELETED		
7. Primary Containment Pressure - High	≤ 1.69 psig	≤ 1.89 ps1g
8. Scram Discharge Volume Water Level - High	<u>≤</u> 767′ 5 *	≤ 767′ 5¥°
9. Turbine Stop Valve - Closure	≤ 5% closed	≤ 7% closed
10. Turbine Control Valve Fast Closure, Trip Oil Pressure - Low	≥ 500 psig	> 414 psig
11. Reactor Mode Switch Shutdown Position	NA	. NA
12. Manual Scram	NA	NA
13. Control Rod Drive a. Charging Water Header Pressure - Low b. Delay Timer	≥ 1157 psig ≤ 10 seconds	≥ 1134 psig ≤ 10 seconds

P.

IBChapter 2.0

LA SALLE - UNIT 1

tage 5 of 10



	AI	IT5 Sec	tion 3.0
	3/4.0 (APPLICABILITY)		A.2
	LIMITING CONDITION FOR OPERATION (LCS)		A.2
(LLO	3.0.1 Compliance with the Limiting Conditions for Operation co Specifications is required during the OPERATIONAL CONDITI therein; except that upon failure to meet the Limiting Condition ACTION requirements shall be met, except as provided in Spe	ONS of other conditions specified s for Operation, the associated	-\ <u></u>
(LLD (Insert2)	3.0.2 Noncompliance with a Specification shall exist when the Condition for Operation and associated ACTION requirements time intervals, except as provided in Specification 3.0.6. If the restored prior to expiration of the specified time intervals, compliance prior to expiration of the specified time intervals, compliance prior to expirate the specified time intervals.	Limiting Condition for Operation	
	3.0.3/When a Limiting Condition for Operation is not met, exc ACTION requirements, within 1 hour action shall be initiated to OPERATIONAL CONDITION in which the Specification does in:	zolace the unit in an	
(Insert3)-	1. At least STARTUP within the next 6 hours, 2. At least HOT SHUTDOWN within the following 6 hours 3. At least COLD SHUTDOWN within the subsequent 24 Where corrective measures are completed that permit operation the ACTION may be taken in accordance with the specified tim of failure to meet the Limiting Condition for Operation. Except stated in the individual Specifications.	hours. on under the ACTION requirement the limits as measured from the tir	A.S ne
(LCO	This specification is not applicable in OPERATIONAL CONDIT 3.0.4 Entry into an OPERATIONAL CONDITION or other specific made when the conditions for the Limiting Conditions for Oper- associated ACTION requires a shutdown if they are not met we into an OPERATIONAL CONDITION may be made in accordate when conformance to them permits continued operation of the time. This provision shall not prevent passage through or to the required to comply with ACTION requirements. Exceptions to	cified CONDITION shall not be ations are not met and the ithin a specified time interval. En ince with the ACTION requirement facility for an unlimited period of PERATIONAL CONDITIONS as	ns 4 4
	 3.0.5 When a system, subsystem, train, component or device solely because its emergency power source is inoperable, or s source is inoperable, it may be considered OPERABLE for the requirements of its applicable Limiting Condition for Operation normal or emergency power source is OPERABLE; and (2) al subsystem(s), train(s), component(s) and device(s) are OPER requirements of this specification. Unless both conditions (1) action shall be initiated to place the unit in an OPERATIONAL Limiting Condition for Operation does not apply by placing it, a 1. At least STARTUP within the next 6 hours, 2. At least HOT SHUTDOWN within the following 6 hours 	is determined to be inoperable solely because its normal power purpose of satisfying the provided: (1) its corresponding Il of its redundant system(s), ABLE, or likewise satisfy the and (2) are satisfied, within 2 hou CONDITION in which the applica is applicable, in:	
A.1	3. At least COLD SHUTDOWN within the subsequent 24 This specification is not applicable in OPERATIONAL CONDIT (3.0.6 Equipment removed from service or declared inoperable	FION 4 or 5.	
LCD 3.D.S	returned to service under administrative control solely to perfo	rm testing required to demonstration in the second se	
	(add proposed LCD3.D.L)	<u>[] [-]</u>	A.8
•	LA SALLE - UNIT 1 and supposed LCD 3.0.7 3/4 0-1	AMENDMENT NO. 132	A.9
	(add proposed LCO 3.0.8)		A.14
		Page 10	f 14

3/4.0 APPLICABILITY

A.2, B.2, C.2, and

D.1

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.

A.1

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:

- 1. At least STARTUP within the next 6 hours,
- 2. At least HOT SHUTDOWN within the following 6 hours, and
- 3. 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.

3.0.5 When a system, subsystem, train, component or device is determined to be inoperable (See II 5 3.0) 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 COND/TION in which the applicable Limiting Condition for Operation get by placing it, as applicable, in:

At least STARTUP within the next 6 hours, At least HOT SHUTDOWN within the following 6 hours and At least COLD SHUTDOWN within the subsequent 24 hours.

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

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. (See ITS 3.0)

declare required features inoperable. AMENDMENT NO. 132 LA SALLE - UNIT 1

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24 hours for proposed Required Action A.2

12 hours for proposed

it hours for

Required

Actions B.2 and C.2

1.11

Required Action D.1

1.A.IL

ITS Section 3.0 APPLICABILITY 1*A.* 2 3.0)- SURVEILLANCE REQUIREMENTS (SR) (52 3.0.1 4.0.1 Surveillance Requirements shall be met during the OPERATIONAL SONDILIONS or other conditions specified for individual Chalting Conditions for Operation (co.) unless otherwise stated in an individual Surveillance Requirement. Invert 5 (MODES) A.10 A2 (\$236,24.0.2) Fach SurveiNance Requirement shall be performed within the specified surveillance interval with a maximum allowable extension not to exceed 25 percent of the specified surveillance interval. (Iwent 6 Air m.i) (\$2.30.3 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. 4.1 1A.10 وسله +7 A.2 I.2 A. 10 5230.44.0.4 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. 1A.12 Laser 8 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). а. b. 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 **Required frequencies** Code and applicable Addenda for performing inservice inspection and testing terminology for inservice inspection and testing activities <u>activities</u> Weekly 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 Monthly Quarterly or every 3 months Semiannually or every 6 months Every 9 months Yearly or annually At least once per 366 days A.13 MOUP & to ITS Add proposed SR 3.0.5 SECTION 5.5 A.14 LA SALLE - UNIT 1 3/4 0-2 AMENDMENT NO. 94

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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 components shall be applicable as follows:

Pumps a. and values LA.4

5.5.7 ia

b.

Inservice inspection of ASME Code Class]. 2. and 3 components and inservice testing of ASME Code Class]. 2. and 3 components and shall be performed in accordance with Section XL of the ASME Boiler and Rressure Vessel Code and applicable Addenda as required by 10 CFR 50, Section 50 Sator except where specific written relief has been granted by the Commission pursuant to 10 CFR 50 Section

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

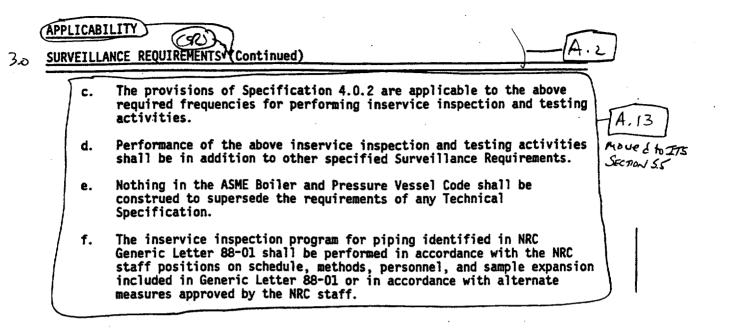
ASME Boiler and Pressure Vessel	Required frequencies
Code and applicable Addenda	for performing inservice LA.4
terminology for inservice	Inspection and testing
Inspection and testing activities	activities
Weekly	At least once per 7 days
Monthly	At least once per 31 days
Quarterly or every 3 months	At least once per 92 days
Semiannually or every 6 months	At least once per 184 days
Every 9 months	At least once per 276 days
Yearly or annually	At least once per 366 days
Blewidly or every Zyears Every 48 months	At least once per 731 days At least once per 1461 days [A.5]

LA SALLE - UNIT 1

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ITS Section 3.0



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A.4

APPLICABILITY

SURVEILLANCE REQUIREMENTS (Continued)

5.5.7.6 c. The provisions of Specification 4.0.2 are applicable to the above LA.4 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.

(.S.7.d e. 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 SR 3.0.3 are applicable to A.Z inservice testing activities; and

LA SALLE - UNIT 1

AMENDMENT NO. 80

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		SYSTEMS

SecIIS

3.1.1

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.
- c. 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.

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

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A17

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:

0.38% delta k/k with the highest worth rod analytically determined, or а

A.I

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 a. 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.
- C. 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.

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:

By measurement, prior to or during the first startup after each refueling. а.

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 Whours 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/

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				ITS 3.1.1	1
	<u>3/4.1 RE/</u>	CTIVITY CONTROL SYSTEMS	A.I		
	<u>3/4.1.1 St</u>	UTDOWN MARGIN	L J		
	LIMITING	CONDITION FOR OPERATION			
LCD 3.1.1	3.1.1 The	SHUTDOWN MARGIN shall be equa	al to or greater than:		
	8.	0.38% delta k/k with the highest	worth rod analytically determin	ned, or	
	b.	0.28% delta k/k with the highest	worth rad determined by test.		
	APPLICAB	ILITY: OPERATIONAL CONDITION	IS 1, 2, 3, 4 and 5.	•	
	ACTION:				•
	With the SI	HUTDOWN MARGIN less than speci	fied:		
ACTION ACTION	•••	In OPERATIONAL CONDITION MARGIN within 6 hours for be in a 12 hours.	1 or 2, reestablish the required at least HOT SHUTDOWN with	I SHUTDOWN hin the next	
Actions D	b. CandD	In OPERATIONAL CONDITION 3 rods to be inserted and suspend (MARGIN. In OPERATIONAL CO CONTAINMENT INTEGRIT	all activities that could reduce NDITION 4, establish SECON	the SHUTDOWN	
Action e	J	In OPERATIONAL CONDITION 5 GETUMIES that cauld reducathe SE Control rode within 1 hour. Estable Within 8 hours.	UDDOWNMARGIN and inst		L.2 A.3
(NCE REQUIREMENTS			
	411 The S		mined to be accust to accust	and the second second	A.7

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

SR.3.1.1.1

- 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 the above required SHUTDOWN MARGIN shall be verified acceptable with an increased allowance for the withdrawn worth of the immovable or untrippable	moved to ITS 3.1.3
add proposed first Frequency to S.E. 3.1.1.1)	H.I

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Page lot 2

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ITS 3.1.2

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Core

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REACTIVITY CONTROL SYSTEM

A.1

3/4.1.2 REACTIVITY ANOMALIES

LIMITING CONDITION FOR OPERATION

L(0 3.1.2

3.1.2 The reactivity equivalence of the difference between the actual critical control red configuration and the predicted critical control rod configuration shall not exceed 1% delta k/k.

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.

ACTION:

With the reactivity different by more than 1% delta k/k: a. Within 12 hours perform an avalysis to determine and explain the Cause of the reactivity difference: operation may continue if the difference is explained and corrected.

ACTION В

ACTION

A

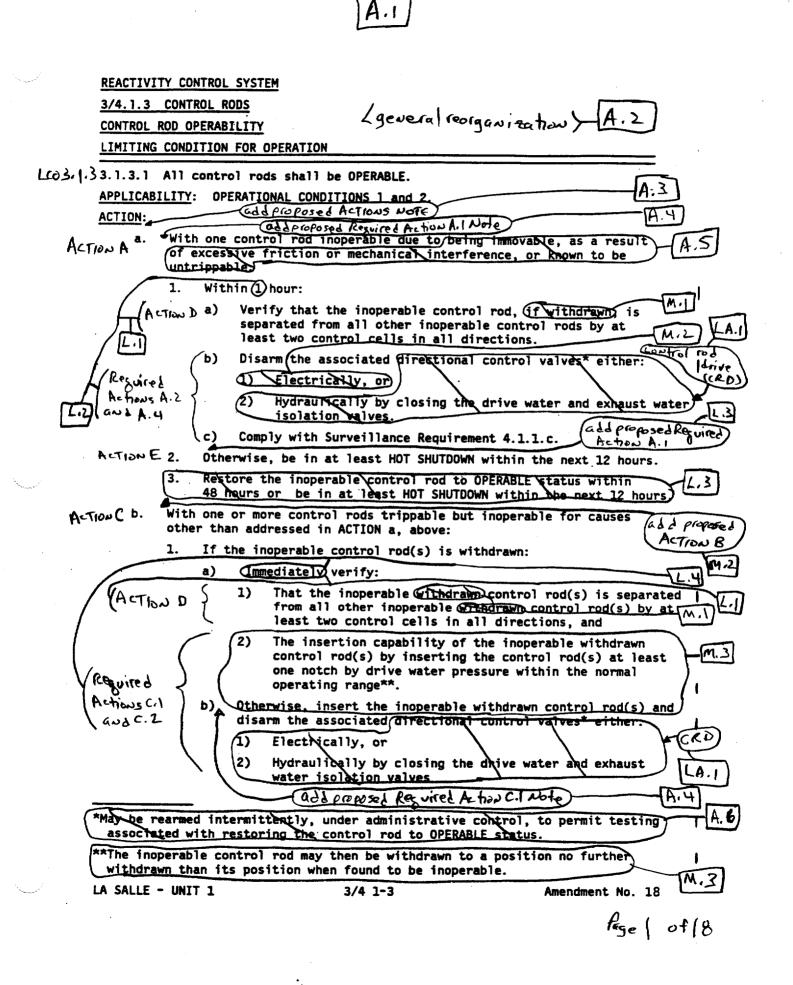
b. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours.

SURVEILLANCE REQUIREMENTS A.Z 4.1.2 The reactivity equivalence of the difference between the actual critical control ros controuration and the predicted critical control ros configuration shall be verified to be less than or equal to 1% delta k/k: SR 3.1.2,1 keff (core During the first startup following CORE ALTERATIONS, and a. IM. 1 . At least once per(3) effective full power days) during POWER b. A.3 OPERATION. L.Z 1000 MWD/T

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ITS 3.1.3

LIMITING CONDITION FOR OPERATION (Continued)

ACTION (Continued)
ACTION c 2. (If the inoperable control rod(s) is inserted: $L.4$
a) Within Dhour disarm the associated directional control valves either: 1) Electrically, or 2) Hydraulically by closing the drive water and LA.1
Action E b) Otherwise, be in at least HOT SHUTDOWN within the next 12 hours.
Action E c. With more than 8 control rods inoperable, be in at least HOT SHUTDOWN within 12 hours. $A.7$
d^* . With one or more SDV vent or drain lines with one value inoperable, we we also be a set of the set of
 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,
 Isolate^{##} the associated line within 8 hours. Otherwise, be in HOT SHUTDOWN within the next 12 hours
SURVEILLANCE REQUIREMENTS
4.1.3.1.1 The scram discharge volume drain and vent values shall be $A.7$ demonstrated OPERABLE by:
a. At least once per 31 days verifying each valve to be open", and 403.1.8
b. At least once per 92 days cycling each valve through at least one complete cycle of full travel
SR3.1.3.2 4.1.3.1.2 When above the low power setpoint of the RWM, all withdrawn control SR3.1.3.3 or hydraulically shall be demonstrated OPERABLE by moving each control rod at least one notch:
a. At least once per () days, and [1.5]
Required $\begin{bmatrix} b. & \text{theast once of 24 hours when any control rod is immovable as a L.6 \\ Achow A.3 \end{bmatrix}$
"May be rearmed intermittently, under administrative control, to permit testing (A.6) associated with restoring the control rod to OPERABLE status.
These valves may be closed intermittently for testing under administrative control. "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.
Creming and venting of the JDY.

LA SALLE - UNIT 1

				A.1		ITS 3.1,	8
		CONTROL SY		(Continued)	sed LCo and Ap	plicability A.2	ر
(ACTION (Con	ntinued)					50015
		2. If	the inope	erable control roo	d(s) is inserte	ed:	
		a)		1 hour disarm th either:	ne associated c	lirectional control	
			1)	Electrically, or			
			2)	Hydraulically by exhaust water iso			
		b)	Otherw 12 hou		ast HOT SHUTDOW	IN within the next	
	с.	With more SHUTDOWN	than 8 c vithin 12	control rods inope hours.	erable, be in a	nt least HOT	/
Art	A (d*.	With one	or more S	SDV vent or drain	lines with one	e valve inoperable,	
ACTI	ion c -(_1. Iso 2. Oth	ate ^{##} the erwise, b	e associated line De in HOT SHUTDOWN	within 7 days I within the ne	ext 12 hours.	
	(e*.	With one	or more S	DV vent or drain	lines with bot	h valves inoperable	,
Actio		_1. Iso	ate ^{##} the	e associated line	within 8 hours	S.	
· Ac	TONC	2. Oth <u>CE REQUIREM</u>	erwise, b	e in HOT SHUTDOWN	l within the ne	ext 12 hours.	
	4.1.3.1.1 demonstrate	The scram of OPERABLE	lischarge by:	e volume drain and	l vent valves s	hall be	
5R3.	1.81 a.	At least	once per	31 days verifying	; each valve to	be open ^{**} , and	
SR3	.1.82 b.	At least complete	once per cycle of	92 days cycling e full travel.	each valve thro	ugh at least one	
	rods not re	equired to ically shal	nave thei	power setpoint of r directional con nstrated OPERABLE	itrol valves di	withdrawn control sarmed electrically h control rod at	Lee II
	a.	At least	once per	7 days, and			
:	b.	At least (result of	once per excessiv	24 hours when any ve friction or mec	control rod i hanical interf	s immovable as a erence.	
Note to SR34B11 Note (- toAction/s	Associate	<u>ed with res</u> ves may be Action stat	closed in	<u>ne control rod to</u> ntermittently for	<u>OPERABLE statu</u> testing under	administrative	
Note2-	L draining	and venting	of the	SDV.		CIUT LU CIIUW	
to Action	S LA SALLE -			5/4 1 4			
	LA JALLE -			3/4 1-4		Amendment No. 94	1.0
						Page	107 4

Movel

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cozi

REACTIVITY CONTROL SYSTEM

SURVEILLANCE REQUIREMENTS (Continued)

4.1.3 1.3 All control rods shall be demonstrated OPERABLE by performance of A.9 Survei Mance Requirements 4.1.3.2, 4.1.3.4, 4.1.3.5, 4.1.3.6 and 4.1.3.7.

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:

- a. Close within 30 seconds after receipt of a signal for control rods to scram, and
- b. Open after the scram signal is reset.

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D.1

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actual or simulated

REACTIVITY CONTROL SYSTEM

SURVEILLANCE REQUIREMENTS (Continued)

4.1.3.1.3 All control rods shall be demonstrated OPERABLE by performance of See 175Surveillance Requirements 4.1.3.2, 4.1.3.4, 4.1.3.5, 4.1.3.6 and 4.1.3.7.

A.I

Se3.18.3 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 the months by verifying that the drain and vent valves:

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

b. Open after the scram signal is reset.

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	A.I ITS 3.1.3	
	REACTIVITY CONTROL SYSTEM	
~	LIMITING CONDITION FOR OPERATION (general organization)	
SR 3.1.3.4	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:	
ACTION A DIC	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 [18] scram insertion times in excess of 7.0 seconds.	
	Otherwise, be in at least HOT SHUTDOWN within 12 hours.	
	SURVEILLANCE REQUIREMENTS	
	4.1.3.2 The maximum scram insertion time of the control rods shall be demonstrated through 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:	
	a. 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 than 120 days, 3.44	TS)
. -	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 insertion time of those specific control rods, and	,
•	c. For at least 10% of the control rods, on a rotating basis, at least once per 120 days of operation.	

(Except normal control rod movement.)-

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tage 5 of 18

CONTROL ROD MAXIMUM SCRAM INSERTION TIMES

(800)

A.I

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

SR3.1.4.1 SR3.1.4.2 SR3.1.4.4

Note to SUNGILANCE Requirements SR3.1.4.4) SR3.1.4.1) SR3144)-SR3.14.2)-

a. For all control rods prior to THERMAL POWER exceeding 40% of RATED THERMAL POWER following CORE ALTERATIONS for after a reactor shutdown

4.1.3.2 The maximum scram insertion time of the control rods shall be demonstrated through

	of anot a reactor shuldown	
	-{that is greater than 120 days,	
Б.	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 insertion time of those specific control rods, and	M.2
	(add proposed SE 3.1.4.3)	-M.2
{ ^t .	For at least 10% of the control rods on a rotating basis) at least once per 120 days of operation.	-[LA.1]

SR 3.I.4.4 (*Except normal control rod movement)

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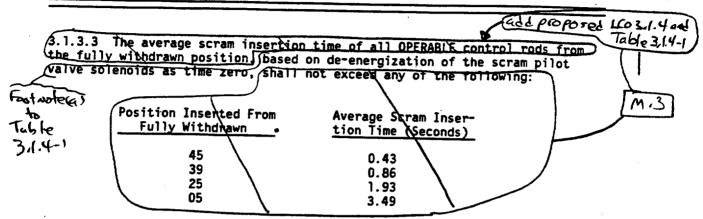
See ITS 3.1.3

M. I

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CONTROL ROD AVERAGE SCRAM INSERTION TIMES

LIMITING CONDITION FOR OPERATION



A.I

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.

ACTION:

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

SURVEILLANCE REQUIREMENTS

 $\langle 4.1.3.3$ 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.

-SR3.1.4.1, SR3. 1.4.2, and SR3.1.4.4

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Amendment No. 58 Rage 20f6

ITS 3.1.4

FOUR CONTROL ROD GROUP SCRAM INSERTION TIMES

LIMITING CO	NDITION FOR OPERATION	Fadd Propos	red 403.1.4 and Table 3.1.4-1
for the Chr in <u>a two-by</u>	ee fastest control rods in	ime, from the fully withdrawn each group of four control ro gization of the scram pilot v ed any of the following: Average Scram Inser- tion Time (Seconds) 0.92 2.05 3.70	ds arranged

<u>APPLICABILITY</u>: OPERATIONAL CONDITIONS 1 and 2.

ACTION:

Action With the average scram insertion times of control rods exceeding the above A limits:

 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

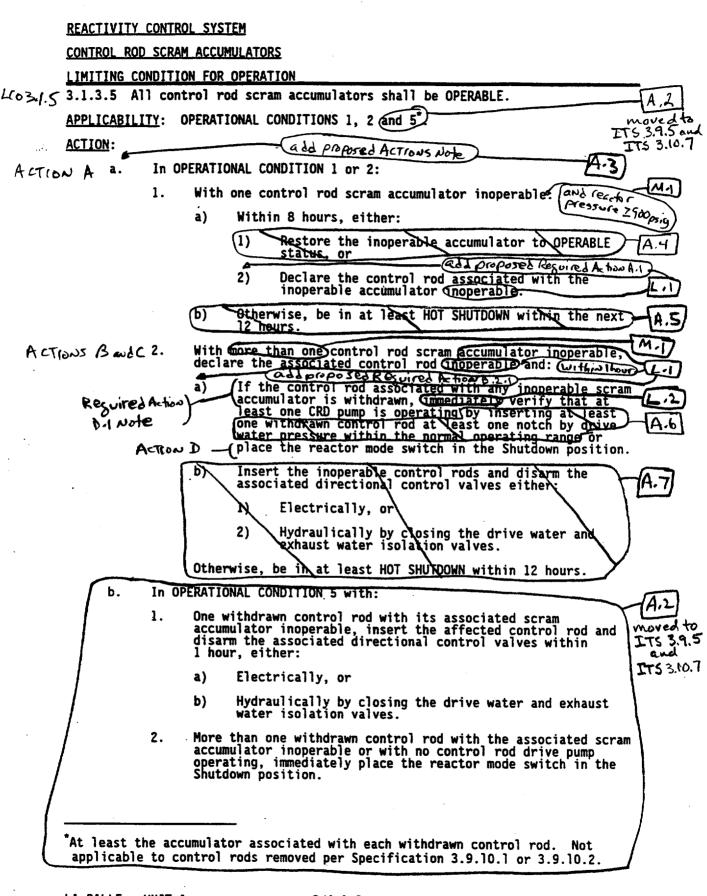
Otherwise be in at least HOT SHUTDOWN within the next 12 hours.

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.

Se 3.1.4.1, SR 3.1.4.2, SR 3.1.4.4

Amendment No. 94 Auge30f6



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Amendment No. 94 Raye Jofy

ITS3.1.5

REACTIVITY CONTROL SYSTEM CONTROL ROD SCRAM ACCUMULATORS	A.]	ITS 3.9.5
INTINC CONDITION FOR OPERATION	· · · · · · · · · · · · · · · · · · ·	
100 295 53 1 3 5 (All control rod scram a	cumulators)shall be OPERABLE	A.2
APPLICABILITY: OPERATIONAL COND	ITIONS (1, 2) and 5.	posed control rod scram M.I
ACTION:		sertion capability
a. In OPERATIONAL CONDI		
1. With one contr	ol rod scram accumulator inop	erable:
	hours, either:	
st	store the inoperable accumula atus, or	1
in í	clare the control rod associa operable accumulator inoperat	Jie.
12 nours		
declare the as	one control rod scram accumu sociated control rod inoperat	
accumula least of one wit water p place t	control rod associated with an ator is withdrawn, immediately ne CRD pump is operating by in adrawn control rod at least on ressure within the normal open ne reactor mode switch in the	nserting at least
(See ITS 3.1.5) b) Insert associa	the inoperable control rods a ted directional control valve	nd disarm the s either:
1) E	lectrically, or	
e	ydraulically by closing the d xhaust water isolation valves	• • • •
Otherwise, be	in at least HOT SHUTDOWN wit	
b. In OPERATIONAL COND	ITION 5 with: Add propose	ed ACTION A for scram insection capability
	control rod with Tts associa noperable, insert the affecte sociated/directional control	d control rod and (m.1)
	cally, pr	
b) Hydrau water	ically/by closing the drive v solation valves	water and exhaust
	e withdrawn control rod with t inoperable or with no control mmediately place the reactor r ition.	
		A-2
At least the accumulator asso applicable to control rods re	iated with each withdrawn com woved/per/Specificatrion 34.9.0	<u>ntrol rod.</u> /Not 0.1 of 3/9.10.2
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_	CONTROL SYSTEM A.I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	16.7
LIMITING CC	ONDITION FOR OPERATION	
	11 control rod scram accumulators shall be OPERABLE.	
1	ITY: OPERATIONAL CONDITIONS 1, 2 and 5.	(See ITS 3.9.5)
ACTION:	In OPERATIONAL CONDITION 1 or 2:	
а.		
	a) Within 8 hours, either: 1) Restore the inoperable accumulator to OPERABLE status, or	
	2) Declare the control rod associated with the inoperable accumulator inoperable.	1 Constrained
	b) Otherwise, be in at least HOT SHUTDOWN within the next 12 hours.	{See ITS 3,1.5}
	 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.	
6	In OPERATIONAL CONDITION 5 with:	- <u>m./</u>
LEO 3.10,7.f and ACTION B	 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: a) Electrically, or b) Hydraulically by closing the drive water and exhaust water isolation valves. 	-{5œII\$3.9.\$}
03.0.7.f Na Acnones	2. More than one withdrawn control rod with the associated scram accumulator inoperable for with no control rod drive pump operating, immediately place the reactor mode switch in the Shutdown position	
(At least applical	t the accumulator associated with each withdrawn control rod. Not ble to control rods removed per Specification 3.9.10.1 or 3.9.10.2.	(See ITS 3.1.5)

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IT53,1.5

SURVEILLANCE REQUIREMENTS

SR3.1.5.1 4.1.3.5 Each control rod scram accumulator shall be determined OPERABLE:

a. 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 A.8 and disarmed or scrammed.

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ITS 3.9.5

SURVEILLANCE REQUIREMENTS

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

A.1

SR 3.9.5.2 At least once per 7 days by verifying that the indicated pressure is greater than or equal to 940 psig juniges the control rod is/inserted/ and disarmed or scramped.//

Add proposed SR 3.9.5.1 M.1

Amendment No.118

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A.1



CONTROL ROD DRIVE COUPLING

LIMITING CONDITION FOR OPERATION SR3,1,3,53.1.3.6 (All control rods shall be coupled to their drive mechanisms A.IU APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, GOD 57 ACTION: In OPERATIONAL CONDITIONS 1 and 2 with one control rod not coupled a. . ACTIONC 1.4 to its associated drive mechanism: Within 2 hours, either: 10 If permitted by the RWM insert the control rod drive mechanism to accomptish recoupling and varify recoupling a) A.15 Distindrawing the conscol rod, and: 1.11 Observing any indicated response of the nuclear instrumentation, and **(**1) 16.12 2) Demonstrating that the control rod will not go to the overtravel position. Lill If recoupling is not accomplished on the first attempt or, if 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 values either: b) ACTION C L.10 control valves either: CRD 1) Electrically, or LA.1 Hydrawlically by closing the drive water and exhaust water isolation valves. 2) Otherwise, be in at least HOT SHUTDOWN within the next Action E 2. 12 hours. In OPERATIONAL CONDITION 5 with a withdrawn control rod not coupled b. Lig its associated drive mechanism, within 2 hours, either: to 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, 1. If recoupling is not accomplished, insert the control rod and disarm the associated directional control valves** either: 2. a) Electrically, or b) Hydraulically by closing the drive water and exhaust water isolation valves. At Teast each withdrawn control rod. Not applicable to control rods removed ,9 L per Specification 3.9.10.1 or \$ 9.10.2 May be rearmed intermittently, under administrative control, to permit A.6 testing associated with restoring the control rod to OPERABLE status.

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SURVEILLANCE REQUIREMENTS

- SR 3.1.3.5 4.1.3.6 A control rod shall be demonstrated to be coupled to its drive mechanism by boserving any indicated response of the nuclear instrumentation while withdrawing the control rod to be fully withdrawn position and then verifying that the control rod drive does not go to the overtravel position:
 - a. Prior to reactor criticality after completing CORE ALTERATIONS that A.I. 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.

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1.

CONTROL ROD POSITION INDICATION

LIMITING CONDITION FOR OPERATION

SR 3.43.1 3.1.3.7 The control rod position indication system shall be OPERABLE A. 17 APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 5* A.18, Moved & ITS 3.9.4 ACTION:

In OPERATIONAL CONDITION 1 or 2 with one or more control rod position ACTIONC a. indicators inoperable, within one hour:

Determine the position of the control rod (by: (2) Moving the control rod, by single notch movement, to a position with an OPERABLE position indicator, LA.Z (b) Returning the control rod, by single notch movement, to its original position, and (c) Verifying no control rob drift alarm at least once per 12 L.13 hours or Move the control rod to a position with an OPERABLE position, 2. 4.2 indicator, or 3. When THERMAL POWER is: ((a) Within the low power setpoint of the RwM: Required Action C.1 a) Declare the control rod inoperable, Note M.6 Verify the position and bypassing of control rods with inoperable "Full in" and/or "Full out" position indi-2) A.19 cators by a second licensed operator or other technically qualified member of the unit technical staff. (b) Greater than the low power setpoint of the RWM, declare the control rod inoperable, insert the control rod and disarm the associated directional control valves** either: LAI 1) ERD Electrically, or 2) Hydraulically by closing the drive water and exhaust

ACTIONE 4. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours.

water isolation valves.

*At least each withdrawn control rod. Not applicable to control rods removed
per Specification 3.9.10.1 or 3.9.10.2. **May be rearmed intermittently, order administrative control, to permit testing associated with restoring the control rod to OPERABLE STATUS. A.6

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					T12 7.1.4	
REACTIVI	TY CONTROL	SYSTEM	A.1			
CONTROL	ROD POSITIO	INDICATION				
LIMITING	CONDITION	FOR OPERATION	("full-in")	(Channel)	·····	
LCO 3.9.4 -{3.1.3.7	The contro	rod position	indication (5) st	en shall be OPE	RABLE. J-L.I	
APPLICAB	ILITY: OPE	RATIONAL CONDIT	TIONS (1, 2 and) 5	Ø[M.1]		
ACTION:					· .	
a .			I l or 2 with on rithin one hour:	e or more contro	ol rod position	
	1. Deter	mine the posit	tion of the cont	rol rod by:		
	(a)	Moving the composition with	ntrol rod, by si an OPERABLE pos	ngle notch movem ition indicator,	ent, to a	
	(b)	Returning the original posit	control rod, by tion, and	single notch mo	ovement, to its	
	(c)	Verifying no c hours, or	control rod drif	t alarm at least	once per 12	
:		the control ro ator, or	d to a position	with an OPERABL	E position	
	3. When	THERMAL POWER	is: -			
	(a)	Within the low	power setpoint	of the RWM:		1
		1) Declare t	the control rod	inoperable,		
		inoperabl cators by	e "Full in" and, a second licen:	bypassing of con /or "Full out" p sed operator or f the unit techn	osition indi- other techni-	
(See	(b)	control rod in	operable, inser	tpoint of the RW t the control ro l valves ^{**} eithe	d and disarm the	1
		1) Electrica	illy, or		•	
			ally by closing Dation valves.	the drive water	and exhaust	
[]	4. Other	wise, be in at	least HOT SHUT	DOWN within the	next 12 hours.	_[]
At/ leas	t each without of the second	rawn control h	od. Not applyca	able to control	rods removed - A	a second
Associ	rearmed int ated with re	ermittently, used the co	nder administration ontrol rod to OP	tive control, to ERABLE STATUS.	permit testing	

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ITS 3.9.4

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ITS 3.9,4

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REACTIVITY CONTROL SYSTEM

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.

SURVEILLANCE REQUIREMENTS

- >£3.1.3.1 4.1.3.7 The control rod position indication system shall be determined OPERABLE
 by verifying:
 - a. At least once per 24 hours that the position of each control rod is indicated,

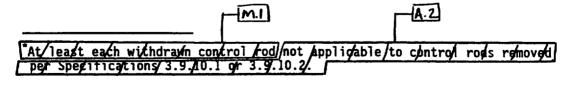
b. That the indicated control rod position changes during the movement of the control rod drive when performing Surveillance Requirement 4.1.3.1.2, and

- 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:
 - 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 (A.18) per Specifications 3.9.10.1 or 3.9.10.2.

LA SALLE - UNIT 1

REACTIVITY CONTROL SYSTEM	
LIMITING CONDITION FOR OPERATION (Continued)	
ACTION: (Continued) b. In OPERATIONAL CONDITION 5 with a withdrawn control rod position ACTION A OPERABLE position indicator or insert the control rod. (Add proposed ACTIONS NOTE) A.3	1
SR 3.9.4.1 4.1.3.7 The control rod position indication (Creation indication of position indication of position indication (Channel)	<u>.</u> .]
 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 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: 1. Prior to each reactor startup, and 2. Each time a control rod is fully inserted. 	<u></u>]



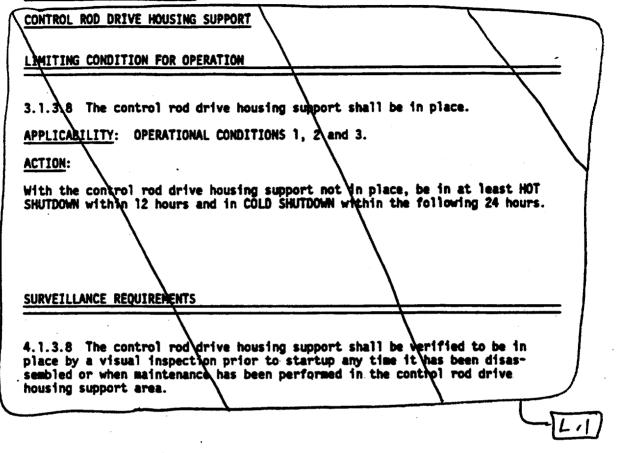
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CT5 3/4.1.3.8

REACTIVITY CONTROL SYSTEM



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				$\left[\Delta, 1 \right]$	TTS	3.3.2.1
	REACTIVI	TY CONTROL S	YSTEM			•
	3/4.1.4	CONTROL ROD	PROGRAM CONTROLS			
	ROD WORT	H MINIMIZER				
	LIMITING	CONDITION F	OR OPERATION			
LCO 3.3.2.1 Table 3.3.7.1	3.1.4.1	The rod wor	th minimizer (RWM) shall be OPER/	BLE. M.3	
FUNCTION ?	APPLICAB	equal to 10%	of RATED THERMAL	POWER, the mini	THERMAL POWER is less mum allowable low power	
	ACTION:			ldd proposed Reg	wird Actions C.2.1.1 and (12.1.2
CONDITIONS Required A C.2.2 and Required C.1	(D,1)	with the p or other to is present movement m	rescribed control echnically qualifi at the reactor co	rod pattern by ied member of th <u>introl console.</u> Lating the manua	i movement and compliance a second licensed operator te unit technical staff who Otherwise, control rod scram or placing the on.	96.2]
SR 3.3.2		With an in continue by provided t	/ bypassing the in	rod(s), OPERABLE moperable contro	control rod movement may l rod(s) in the RWM	
•		verif	osition and bypass ied by a second li fied member of the	censed operator	le control rods is or other technically staff, and	
•		There group.		3 inoperable c	ontrol rods in any Ruft	
<	C.	(exception 1	ons of Specificat that control rod w the RWM inoperabl	rithdrawal for r	ot applicable with the eactor startup shall not	A.3
		ANCE REQUIRED	(ENTC			2
			1) be demonstrated	OPERABLE:		
SR 3.3.2.1.2 AND NOTE SR 3.3.2.1.3 AND NOTE	-	the purpose CONDITION T THERMAL POW	e of making the re pr <u>ior to reachin</u>	actor critical, g 10% of RATED proper anguncia	wal of control rods for and in OPERATIONAL <u>THERMAL POWER when reducin</u> tion of the selection ol rod.	
NOTE TO SR 3.3.2.1.2	permitte	ed for the pu val of contro	irpose of determin	ing the OPERABI	selected culitrol rods is LITY of the RWM prior to ng the reactor to)-M.3]
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3/4.1.4 CONTROL ROD PROGRAM CONTROLS

ROD WORTH MINIMIZER

SURVEILLANCE REQUIREMENTS (Continued)

SR 33.2.1.2 D. AND NOTE 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-ofsequence control rod

SR 3.3,2,1.3 C. ANO NOTE In OPERATIONAL CONDITION 1 within one hour after RWM automatic initiation when reducing THERMAL POWER, by verifying the rod block function by demonstrating inability to withdraw an out-of-sequence control rod.

1.A

HLA.2 HL.4 HLA2

L.4

SR33.2.1.8 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

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ROD BLOCK MONITOR

LIMITING CONDITION FOR OPERATION

3.3.2,1 معا

TABLE 3.32.1-13.1.4.3 Both rod block monitor (RBM) channels shall be OPERABLE.

· · · · · · · · · · · · · · · · ·		
FUNCTION 1	APPLICABI or equal	LITY: OPERATIONAL CONDITION 1, when THERMAL POWER is greater than to 30% of RATED THERMAL POWER,
	ACTION:	and no peripheral A.2
Αςτιόν Αςτιόν	в { ^{а.} в {	With one RBM channel inoperable, verify that the reactor is not Operating on a NMITING CONTROL ROD 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		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 R5M 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.

CHANNEL FUNCTIONAL TEST prior to contro! 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	
LCO 3.1.7 3.1.5 The standby liquid control system shall be OPERABLE.	
APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 1	-
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 ACTION C be in at least HOT SHUTDOWN within the next 12 hours.	
ACTION B With the standby liquid control system inoperable, restore the system to OPERABLE status within 8 hours or be in at least HOT ACTION C SHUTDOWN within the next 12 hours.	
b. IN OPERATIONAL CONDITION 54:	
 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 of insert all insertable control rods within the next hour. 	1
2. With the standby liquid control system inoperable, insert all insertable control rods within 1 hour.	
SUREILLANCE REQUIREMENTS	
4.1.5 The standby liquid control system shall be demonstrated OPERABLE:	
a. At least once per 24 hours by verifying that;	
5R3,1.7,1 1. The available volume and temperature of the sodium pentaborate 5R3,1.7,2 solution are within the limits of Figures 3.1.5-1 and 3.1.5-2, and	
5R 3.1.7.3 2. (The heat tracing circuit is OPERABLE by verifying the indicated) temperature (0-50 > 60°F (on the local indicator) [LA.]	-
of the pump suction piping up to the storage tank outlet valvesary (68)	
*With any control rod withdrawn. Not applicable to control rods removed per L.I. Specification 3.9.10.1 or 3.9.70.2.	

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SURVEILLANCE REQUIREMENTS (Continued)

At least once per 31 days by; b. Starting both pumps and recirculating demineralized water 2 1. to the test tank. 5R 3117.4 Verifying the continuity of the explosive charge. 2. 3. Determining that the concentration of boron in solution is 523.1.7.5 within the limits of Figure 3.1.5-2 by chemical analysis.* Verifying that each valve in the flow path that is not locked, 58 31.76 4. sealed or otherwise secured in position, is in its correct or can be aligned to the correct position position. D. 1 At least once per (18) months during shutdown by; c. A.3 L.3 Initiating one of the standby liquid control system loops, 1. SR 3.1.7.8 A.2 including an explosive value, and verifying that a flow path from the pumps to the reactor pressure vessel is available on LA.3 pumping demineralized water into the reactor ressel The replacement charge for the explosive valve shall be from the same manufactured batch as the one fired or from another batch LA.I which has been certified by having one of that batch successful fired. Both injection loops shall be tested in & months. Refinition of STAGGERED TEST LD.1 BASIS Demonstrating that when tested pursuant to Specification 4.0.5. 2. 5R 3177 the minimum flow requirement of 41.2 gpm at a pressure of greater than or equal to 1220 psig is met. Demonstrating that the pump relief valve setpoint is less than (3. or equal to 1409 psig and very fying that the relief value does not actuate during recirculation to the test tank. LA.4 Demonstrating that all heat traced piping between the storage A.5 583.1.7.9 4. tank and the reactor vessel is unblocked by veryfying flow from the storage tank to the motor operated suction valve and then LA.3 storage tank outlet valves draining and flushing the piping with demineralized water, Storage tank are Demonstrating that the storage tank heaters are CPERABLE by verifying the expected temperature rise for the sedium (5. pentaborate solution in the storage tank after the heaters A.8 .4 are energized) *This test shall also be performed anytime water or boron is added to the 5R3.1.7.5 solution or when the solution temperature drops below the limit of Figure 3.1.5-1. A.5 "This test shall also be performed whenever the heat tracing circuit has been found to be inoperable and may be performed by any series of sequentia

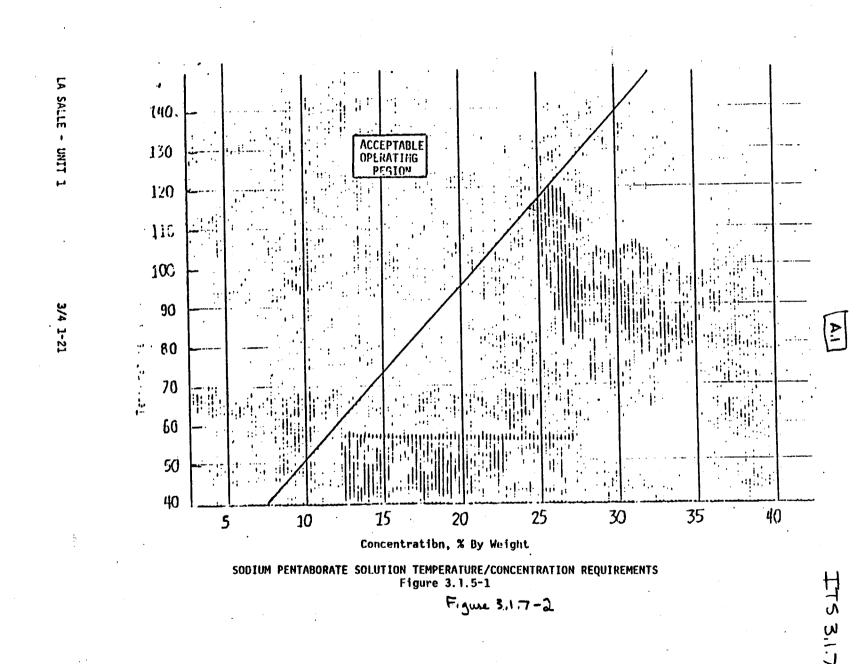
LA SALLE - UNIT 1

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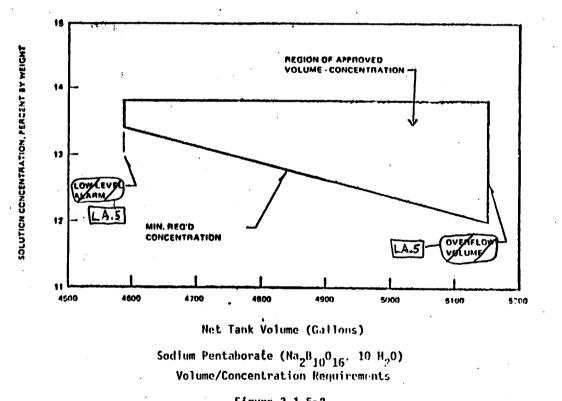
(overlapping or/total flow path steps such that the envire flow path is included.

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Figure 3.1.5-2 Figure 3.1.7+1

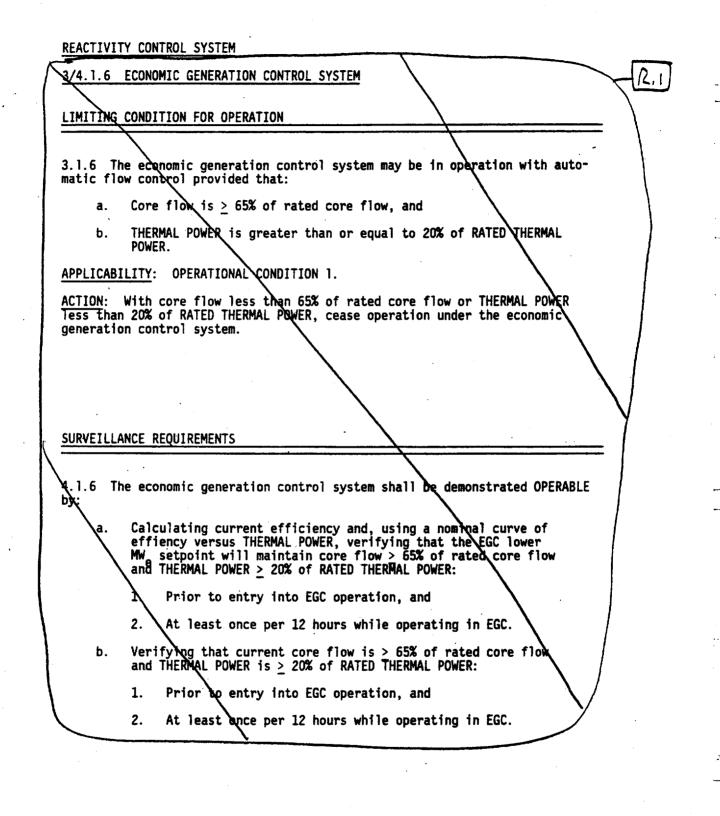
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3/4.2 POWER DISTRIBUTION LIMITS

3/4.2.1 AVERAGE PLANAR LINEAR HEAT GENERATION RATE

LIMITING CONDITION FOR OPERATION

1203.2.1 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.

A.I

ACTION:

ACTION B With an APLHGR exceeding the limits specified in the CORE OPERATING LIMITS REPORT. <u>Unitiate corrective action within 15 minutes</u> and restore APLHGR to within the required limits within 2 hours or reduce THERMAL POWER to less than ACTION B - (25% of RATED THERMAL POWER within the next 4 hours.

SURVEILLANCE REQUIREMENTS

SR 3.2.1.1

4.2.1 All APLHGRs shall be verified to be equal to or less than the limits specified in the CORE OPERATING LIMITS REPORT.

- a. At least once per 24 hours.
- b. Within 12 hours after completion of a THERMAL POWER (increase of at) (least 15%) of RATED THERMAL POWER, and

C. Inschally and at reast once per 12 hours when the reactor is operating with a LIMITING CONTROL ROD PATTERN for APLHGR.

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ITS 3.2.1

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3/4.2.3 MINIMUM CRITICAL POWER RATIO	
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 than the MCPR limit 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.	<u>A2</u>
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
ACTION A - (1. Initiate corrective action within 15 minutes, and)	LAI
2. Restore MCPR to within the required limit within 2 hours.	المسيمية
ACTION B 3. Otherwise, reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within the next 4 hours.	
ACTION A	

LA SALLE - UNIT 1

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Specification 3.3. 4.1

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POWER DISTRIBUTION LIMITS

3/4.2.3 MINIMUM CRITICAL POWER RATIO

LIMITING CONDITION FOR OPERATION

LCO 3.2.3 The MINIMUM CRITICAL POWER RATIO (MCPR) shall be equal to or greater 3.3.4.1.b than the MCPR limit 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

- 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.
 - Otherwise, reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within the next 4 hours.

b. Whi Require D REL ACTION 4

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.

Required Action C. T Add L.Z

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POWER DISTRIBUTION LIMITS (Continued)

3/4.2.3 MINIMUM CRITICAL POWER RATIO

SURVEILLANCE REQUIREMENTS

583.2.2.1

......

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.

- a. At least once per 24 hours,
- b. Within 12 hours after completion of a THERMAL POWER Onerease of ab (east 15%-op RATED THERMAL POWER, and

A.I

Initially and at least once per 12 hours when the reactor 15 operating with a LIMITING CONTROL ROD PATTERN for MCPR. ć.

SR 3.2.2.2 4.2.3.2 The applicable MCPR limit shall be determined from the COLR based on:

 a. Technical Specification Scram Speed (TSSS) MCPR limits, or
 b. Nominal 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.
 Within 72 hours of completion of each set of scram testing, the results will be

compared against the nominal scram speed (NSS) insertion times <u>specified</u> in the <u>COLR</u>, to verify the applicability of the <u>transient analyses</u>. Prior to initial scram time testing for an operating cycle, the MCPR operating <u>limits used shall</u> be based on the Technical Specification Scram Speeds (TSSS).

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IT5 3.2.2

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LA.1

POWER DISTRIBUTION LIMITS

3/4.2.4 LINEAR HEAT GENERATION RATE

LIMITING CONDITION FOR OPERATION

LCO3.2.3 3.2.4 The LINEAR HEAT GENERATION RATE (LHGR) 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.

A.1

ACTION:

ACTION A

A With the LHGR of any fuel rod exceeding the limit, (<u>initiate corrective action</u>) A <u>within 15 minutes</u> and restore the LHGR to within the limit within 2 hours or reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within the next 4 hours.

SURVEILLANCE REQUIREMENTS

SR3.2.3.1 4.2.4 LHGR's shall be determined to be equal to or less than the limit:

- a. At least once per 24 hours,
- b. Within 12 hours after COMPTECTODOT & THERMAL POWER OF COCCEASE OF

Inscially and at least once per/12 hours when the on a LIMITING CONTROL ROD PATHERN for LHGR. is operating 1.1.1.1.1.1.1.1 L2

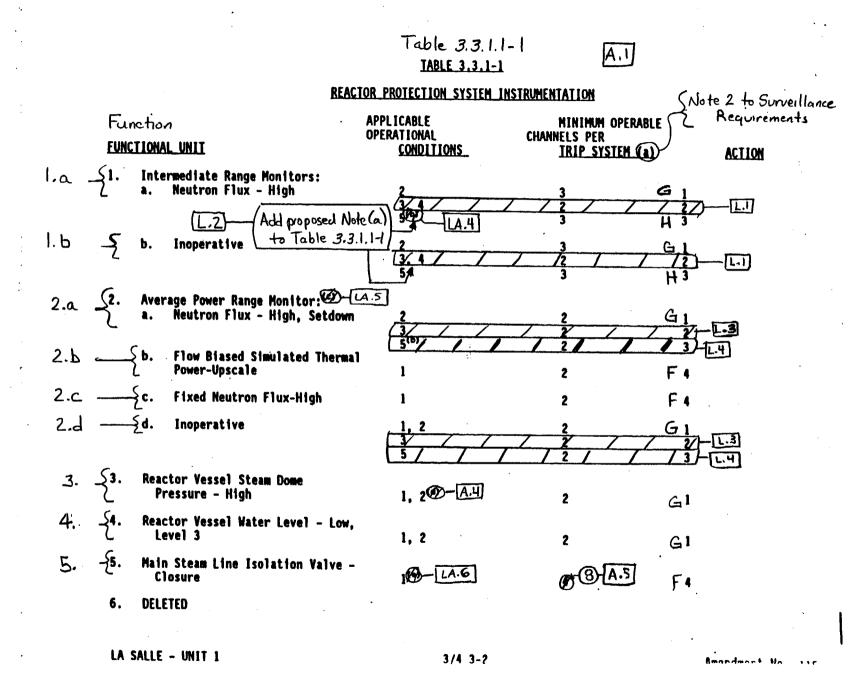
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				ITS 3.3.1.1
3/4.3_INSTRUM	<u>IENTATION</u>	A.1		
3/4.3.1 REACT	OR PROTECTION SYSTE	LJ M_INSTRUMENTAT	ION	
LIMITING CONDI	TION FOR OPERATION	-		
		,		
Se3.3.1.17 (RESPONSE TIME	3.3.1-1 shall be 0 as shown in Table 3	PERABLE with t	tem instrumentation cha he REACTOR PROTECTION S A.1]	INNELS IYSTEM
•	As shown in Table	3.3.1-1.		
ACTION: ALP	opised ACTIONS NOT	E1)-(A.2)	·	,
ACTION A ACTION A ACTION A ACTION A The tripped	thannel required by Units/ place the i d condition within	Table 3.3.1-1 noperable chan 12 hours.	inoperable (in one or mo mel and/or that trip sy	vstem in
ACTIONS A, B, Mith two of more Funct	or more channels req ional Units:	uired by Table	3.3.1-1 inoperable in	one or
ACTION C - 21- With: trip	pedio to maintain tri	sufficient cha p capability i	annels remain OPERABLE in the Functional Unit,	or and
ACTION B 2 with and/o	in 6 hours, place th or that trip systems	e inoperable of in the tripp	channel(s) in one trip and condition and [A-2
ACTION A 2 syste	in 12 nours, restore am to an OPERABLE st	the inoperabl atus or trippe	e channels in the other	r trip
ACTION D Otherwise	, take the Action F	equired by Tab.	le 3.3.1-1 for the Func	tional
SURVEILLANCE R	EOUIREMENTS			
Note to demonstrated of Surveillance FUNCTIONAL TEST Requirements	reactor protection s PERABLE by the performant of the performance of t	ystem instrume rmance of the ATION operation	entation channel shall CHANNEL CHECK, CHANNEL ons for the OPERATIONAL	be
Requirements (1)	at the irequencies	shown in Table	≥ 4.3.1.1-1.	-(LA.3)
R 3.3.1.1.15 St.3.1.2 LOGIC Channels shall	be performed at lea	ESTS and simulations once per (1)	Dmonths. (14)	and of all
SR3.3.1.1.7 Sfunctional unit	EACTOR PROTECTION SY	STEM RESPONSE	TIME of (agh) reactor t	rip (A.3)
DEL/LTID SVSTAT	Chice per (18) months.	A Rachy test an	all include at least of	ne channel
18 months where reactor trip s	, w ye cut cordination	per di reavnas	inc channels in a specif	fic
		Add propa	sed Note 4)-[A.3]	
	WHELE YUTE ADDITO CS	NUSA THA Trin I	not be placed in the fr function to occur. In	
ACTION D the require	CHA THODALADIA CUTL	1781 IS NAT YAG	stored to OPERABLE stat Table 3.3.1-1 for the F	
	ON applies to that t tip/systems have the h be applied to eit	Y SAMP Dubber (th the most inoperable of inoperable channels, a.	channels; the
		(Addressed by Definition	of
		(STAGGERED TEST BAS !!	s, f
•• •••			Note 3; and DOC A	1.5
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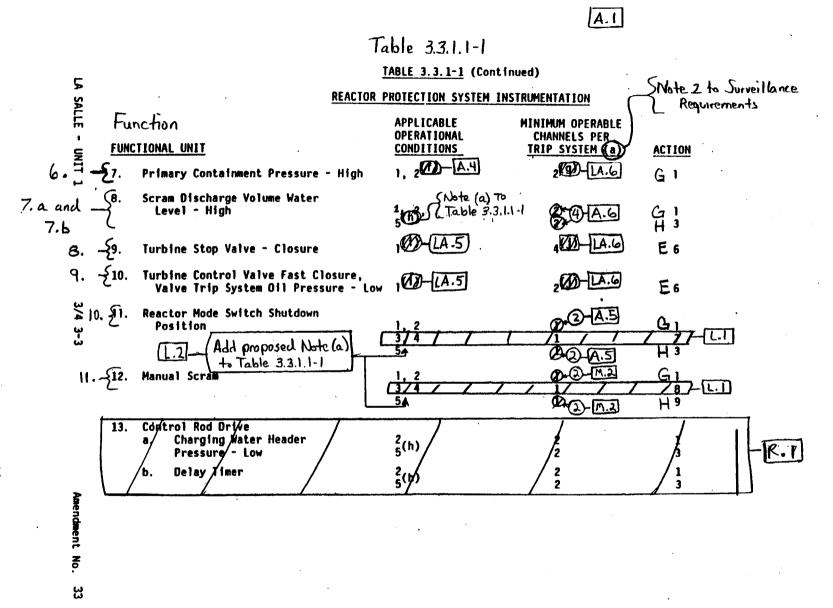
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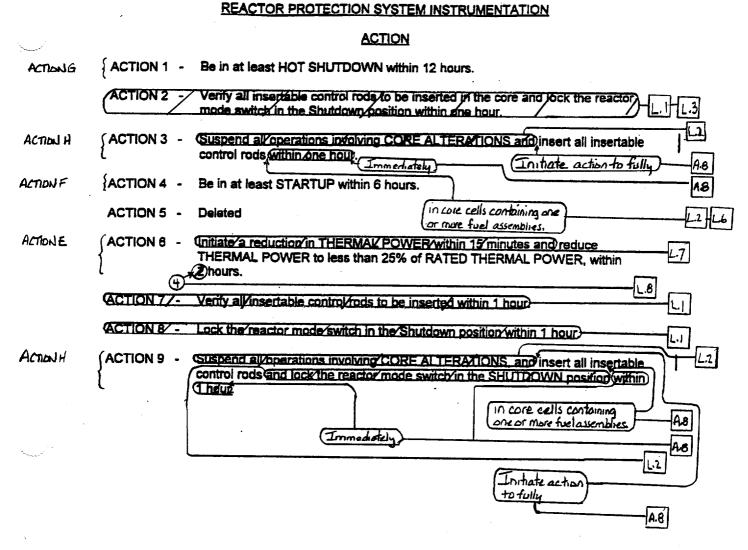
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TABLE 3.3.1-1 (Continued)

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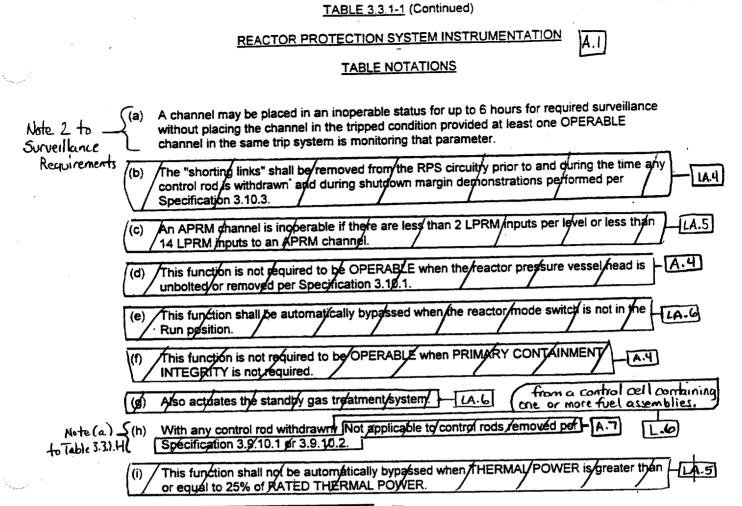


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ITS 3.3.1.1



(j) Also actuates the EOC-RPT system. - LA.6

LA.4 Not required for control rods removed per Specifications 3.9.10.1 or 3.9.10.2.

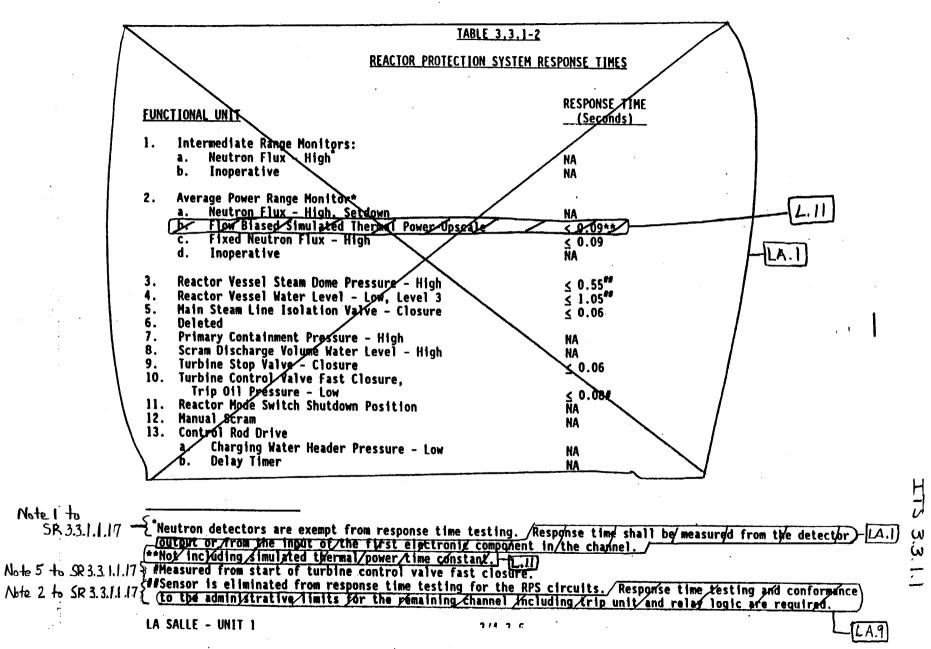
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A.I



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Table 3.3.1.1-1 IABLE 4.3.1.1-1 A.I

	REACTOR_PROTEC	TION SYS	TEM INSTRU	MENTATION_SURVEI	LANCE REQUIREMENTS	x
	inction (HANNEL	FUNCTION	SR3.3.1.1.5 SR 3.3. SR3.3.1.1.9 SR 3.3. AL CHANNEL	OPERATIONAL	
1.a -{1.	Intermediate Range Monitors	CHECK	IESI A.9 (STURE), W	-4 R Note 1 to 5 Note 1 to 5	R 3.3.1.1.13	з}-[Л.]
۲. ۱.b 2.	b. Inoperative SR 3.3.1.1.7 Average Power Range Monitor:	NA - SR 3,3.	W-4,-5 1.1.8	NA NA	20, 34. A, 5 (Note (a) to []	4) AL.2
2.a 2	a. Neutron Flux - High, Setdown SR 3.3.1.1.7-(S			-4 SA-11	Note 2 to SR 3	3, 1, 1, 4 (1, 3, 1, 1, 1)
2.6 -{ 2.c -{ 2.d -{	 b. Flow Biased Simulated Ther Power-Upscale S c. Fixed Neutron Flux - High d. Inoperative 	mal s, (PZ) A, NA	(5/11 ⁴⁷), Q 10) (5/11 ⁴⁷), Q			
3. 53.	Reactor Vessel Steam Dome Pressure – High	NA	Q-9	sa Q-10	1, 2	. 1
4,-54.	Reactor Vessel Water Level - Low, Level 3	(S-M 100	,3] Q-9	E-1-(R)-13	1, 2	
5,-{5.	Main Steam Line Isolation Valve - Closure	NA	Q-9	LE.1- (R) 13	1	
6.	Deleted				-	1
6.57.	Primary Containment Pressure - High	NA	Q -9	LEIQ 13	1, 2	I
					•	

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Table 3.3.1.1-1

A.I TABLE 4.3.1.1-1 (Continued) REACTOR PROTECTION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS ER3.3.1.14 SR3.3.1.1.5, SR3.3.1.1.9 SR3.3.5.1.1.10, SR3.3.1.1.11 CHANNEL SR 3.3.1.1.12 (SR3.3.1.1.13 5R 3.3.1.1.1 Function OPERATIONAL CHANNEL FUNCTIONAL CHANNEL -CONDITIONS FOR WHICH CHECK TEST CALIBRATION SURVEILLANCE REQUIRED **FUNCTIONAL UNIT** add proposed Scram Discharge Volume Water 7. Note (a) to Level - High NA 0-9 Table 3.3.1.1-1 Turbine Stop Valve - Closure NA Q-9 **Turbine Control Valve Fast** •SR 3.3.1.1.16 Ciosure Valve Trip System Oil Pressure - Low® NA 0-9 -{R}-13 add proposed 10, 211 Reactor Mode Switch 10.2-R-12 Note (a) to Shutdown Position NA NA Table 3.3.1.1-1 Ŵ-Ľ NA NA Manual Scram 11.512. Control Rod Drive 13. Charging Water Header Pressure - Low R NA R.1 NA R Delay/Timer Notel to SR 3.3.1.1. 11 LA3 Note 1 to SR3.3.1.1.13 2(a) Neutron detectors may be excluded from CHANNEL CALIBRATION. The IRM and SRM channels shall be determined to overlap/for at least 1/2 decades during each startup and the IRM and APRM SR 3.3.1.1.6 channels shall be determined to overlap for at Jeas/1/2 decades during each controlled shutdown, if not performed within the 5R 3.3.1.1.7 A.9 previous 7 days. Within 24 hours prior to startup, if not/performed within the previous 7 days. LA.8 ((c) This calibration shall consist of the adjustment of the APRM channel to conform to the power levels calculated by a heat balance (d)SR 3.3.1.1.Z during OPERATIONAL CONDITION 1 when THERMAL POWER ≥ 25% of RATED THERMAL POWER. /The APRM/Gain Adjustment Pactor (GAF) for any chapter shall be equal to the power value determined by the heat balance divided by the APRM Add proposed Note reading for that channel. 1.9 to 5R 3.3.1.1.2 Within 2 hours, adjust any APRM channel with a GAF > 1.02. In addition, adjust any APRM channel within 12 hours, if power is ACTIONS Note 2 greater than or equal to 90% of RATED THERMAL POWER and the APRM channel GAF is < 0.98./Upfil any required APRM adjustment has been accomplished, nolatication shall be posted on the reactor control panel. This calibration shall consist of the adjustment of the APRM flow blased channel to conform to a ((e) 58 3.3.1.1.3. L.10 calibrated flow signal. A.10 The LPRMs shall be calibrated at least/once per 1000 effective full power hours (EFPH). JRJ. 3.1.1.8 --\$(f) Measure and compare care flow to rated core flow LA.(3) This calibration shall consist of verifying there ± 1 second simulated thermal power time constant. SR3.3.1.1.14 -At least once per months, verify Turbine Stop Valve - Closure and Turbine Control Valve Fast Closure Valve Trip System Oil Pressure - Low Trip) Functions are not bypassed when THERMAL POWER is $\geq 25\%$ of RATED THERMAL POWER. Specification 4.0.2 applies to this month-interval. SR 3.3.1.1.16 The provisions of Specification 4.0.4 are not applicable for a period of 24 hours after entering OPERATIONAL CONDITION 2 or 3 Note to SR 3.3.1.1.4 when shutting down from OPERATIONAL CONDITION 1. Note 2 to SR 3.3.1.1.11 MI Note Z to SR3.3.1.1.13 LA OTHER ADDED

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4TY 2.3.

MATHUMENTATION ITS 336.1 ISOLATION ACTUATION INSTRUMENTATION LIMITING CONDITION FOR OPERATION LA. L(0 3.3.6.) (3.3.2 The isolation actuation instrumentation channels shown in Table 3.3.2-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.3.2-2 and with ISOLATION SYSTEM RESPONSE SR 3.3.6.1.6 (TIME as shown in Table 1.3.7-) LA,Z APPLICABILITY: As shown in Table 3.3.2-1. add proposed ACTIONS Note A. 2 ACTION: With an isolation actuation instrumentation channel trip setpoint less а. conservative than the value shown in the Allowable Values column of ACTIONS Aand B Table 3.3.2-2, declare the channel inoperable until the channel is restored to OPERABLE status with ity trip setpeint adjusted consistent with the Trip Seppoint value. LA.V With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System Requirement for one trip system, ACTION A either Place the inoperable channel(s) and/or trip system in the tripped 1. condition* within LB, (1) 1 nour for trip functions without an OPERABLE channel, 12 hours for trip functions common to RPS Instrumentation, and Ъ 24 hours for trip functions not common to RPS Instrumentation, c) or ACTION C (2. Take the ACTION required by Table 3.3.2-1. With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirement for both trip systems, A (TION B Place at least one trip system** in the tripped condition*** 1. within one hour, and Place the inoperable channel(s) in the remaining trip system ACTION in the tripped condition *** within 1 hour for trip functions without an OPERABLE channel. LBJ 12 hours for trip functions common to RPS Instrumentation, and 3) 24 hours for trip functions not common to RPS Instrumentation, ، or A (TION C . ъ) Take the ACTION required by Table 3.3.2-1. LA 3 An inoperable channel need not be placed in the tripped condition where this would cause the Trip Function to occur. In these cases, the this would cause the Trip Function to occur. In these cases, the inoperable/channel shall be restored to OPERABLE status within 6 hours or the ACTION required by Table 3.3.4-1 for that Trip Function shall be taken _**B**.J. be taken. II more channels are inoperable in one trip system ginan 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 ACTION B the ACTION required by Table 3.3.2-1 for that Trip Function shall be taken. LB.T. ACTION C

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3/4.3.2 ISOLATION ACTUATION INSTRUMENTATION ITS 3.3.6.2 IA.) I LIMITING CONDITION FOR OPERATION 3.3.2 The isolation actuation instrumentation channels shown in Table 3.3.2-1 shall be OPERABLE with their trip setpoints set consistent with the values shown (in the Trip Setpoint column of Table 3.3.2-2 and with ISOLATION SYSTEM RESPONSE) TIME as shown in Table 3.3.2-3. LLO 3.3.6.2 A.2 APPLICAEILITY: As shown in Table 3.3.2-1. add proposed ACTIONS Note A.3. ACTION: With an isolation actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of ACTIONS AandB 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: -LA.I With the number of OPERABLE channels less than required by the Minimum Ъ. OPERABLE Channels per Trip System Requirement for one trip system, either Place the inoperable channel(s) and/or trip system in the tripped 1. condition * within ACTION A 1 hour for trip functions without an OPERABLE channel) [L5.1] 12 hours for trip functions common to RPS Instrumentation, and -1LB. 6 b C) 24 hours for trip functions not common to RPS Instrumentation, OI ACTION C 2. Take the ACTION required by Table 3.3.2-1. 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 **a**1 Place the inoperable channel(s) in the remaining trip system in the tripped condition *** within ACTION A 1 hours for trip functions without an OPERABLE channel [...] 12 hours for trip functions common to RPS Instrumentation, and 3) 24 hours for trip functions not common to RPS Instrumentation. OT A.Z ACTION C (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 pases, the inoperable channed shall be restored to OPPRABLE status within 6 hours or the ACTION required by Table 3.3.2-1 for that Trip Function shall be taken LB,I 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 this would cause the Trip Function to occur. In these cases, the (inoperable channel shall be restored to OPERABLE status within 1 hour or) LAZ ACTION B = LB.I ACTION C-(the ACTION required by Table 3.3.2-1 for that Trip Function shall be taken.

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	INSTRUMENTATION A.I.
	SURVEILLANCE REQUIREMENTS
Note 1 to Surveillance Regairements	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.
SK 3.3.6.1,5 SK 33.616	4.3.2.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all channels shall be performed at least once per (1) months. 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 (1) months. Each test shall include at least once every N times 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.
	24-LD.1 BASIS and A.4

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ITS 3.3.6.1

INSTRUMENTATION

ITS 3.3.6.2

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SURVEILLANCE REQUIREMENTS

Note 1 to Surveillance Requirements

SR 3.3.6.2.4

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 LA.3 frequencies shown in Table 4.3.2.1-1. 4.3.2.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of

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 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 redyndant channels in a specific isolation trip system.

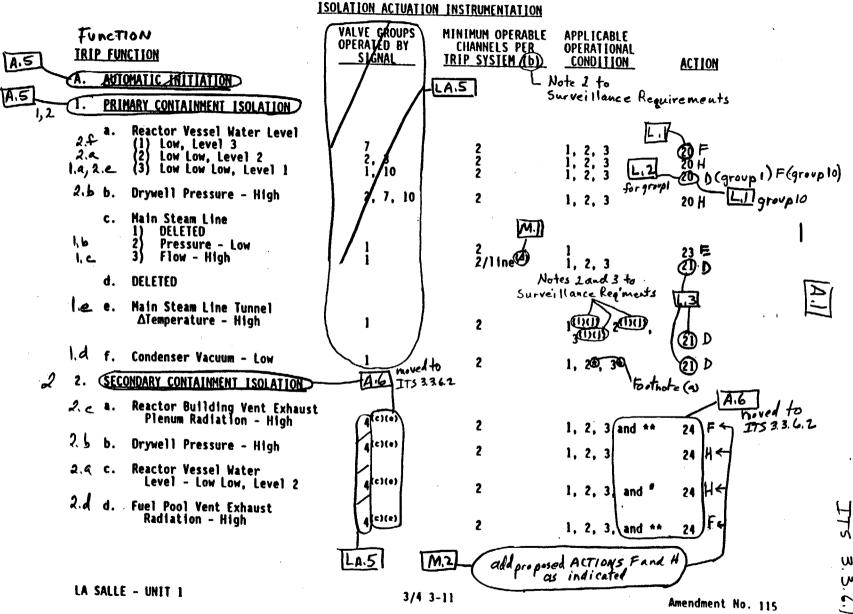
all channels shall be performed at least once per (Sf months.

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Table 3.3.6.1-1 TABLE 3.3.2-1



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•		3, 3, 6 2 - 1		· ·	
	TABLE 3.3.				
	ISOLATION ACTUATION I			· · · ·	
Function [A.4]	OPERATED BY	INIMUM OPERABLE CHANNELS PER	APPLICABLE OPERATIONAL		
TRIP FUNCTION		RIP SYSTEM (b)	CONDITION	ACTION	
A. AUTOMATIC MITIATION	<u> </u>	<u>.41</u>			
	LATION			(see ITS 3.3.6.1)	
a. Reactor Vessel Wate (1) Low, Level 3 (2) Low Low, Level (3) Low Low Low, L	er Level 7 2 2, 3 evel 1 1, 10	2 2 2	1, 2, 3 1, 2, 3 1, 2, 3	20 20 20	
b. Drywell Pressure -		2	1, 2, 3	20	
c. Main Steam Line		E	1, 2, 3	20	
1) DELETED 2) Pressure – Low 3) Flow – High	1	2 2/1 ine ^(d)	1 1, 2, 3	23 21	
d. DELETED				A.	
e. Main Steam Line Tu ∆Temperature – Hi	nne) gh 1 .	2	1 ⁽¹⁾⁽¹⁾ 2 ⁽¹⁾⁽¹⁾ ,	21	
f. Condenser Vacuum -	Low 1	2	1, 2*, 3*	21	
2. SECONDARY CONTAINMENT	SOLATION			21 Notes (a) and (b) Ho Table 3,3,62-1 Ho Table 3,3,62-1	
3 a. Reactor Building V Plenum Radiation		2	1, 2, 3 and **	to Table State	
2 b. Drywell Pressure -	High 4(s)(•)	2	1, 2, 3	24 C No ta (a) to No ta 33.62-1)	
) c. Reactor Vessel Wat Level – Low Low,	er Level 2 4507(0)	2	1, 2, 3, and®	24 C (a) to No ta (a) to Table 3.3.62-1) 24 C H	
4 d. Fuel Pool Vent Exh Radiation - High	(4 ^{(c)(c)})	2	1, 2, 3, and 🏞		
	See 275 33	6.1>	• •) 24 Notes (a) and (b) (v) fo Table 3.3.6.2-1 (v) N	
LA SALLE - UNIT 1	3/4 3-1	11		Amendment No. 115	

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Table 3.3.6.1-1 TABLE 3.3.4-1 (Continued)

ISOLATION ACTUATION INSTRUMENTATION

			VALVE GROUPS	MINIMUM OPERABL CHANNELS PER	E APPLICABLE OPERATIONAL	
	TRIP FUI	<u>ACTION</u>	SIGNAL	TRIP SYSTEM	CONDITION	ACTION
	4 3. <u>RE</u> 4	CTOR WATER CLEANUP SYSTE	MISOLATION	4 J	lote 2 to Surveillan Requirements	(e
add proposed	Kia a.	Δ Flow - High	5	1	1, 2, 3	22 〒
(Function 4.6) [M.3.]	4.c b.	Heat Exchanger Area Temperature - High	5	1/heat exchanger	1, 2, 3	22 F
	4.1 c.	Heat Exchanger Area Ventilation ΔT - High	5 - faotnu	te (b) 1/heat exchanger	1, 2, 3	22 F JL.II
	4.L d.	SLCS Initiation	50 (2000	1. 2. 0 1. 4	201 [
	<i>₩.</i> κ e.	Reactor Vessel Water Level - Low Low, Level 2	6	2	1, 2, 3	22 F
	4.e f.	Pump and Valve Area Temperature - High	5	1/area	1, 2, 3	22 F
	χf g.	Pump and Valve Area Ventilation ΔT - High	5	1/area	1, 2, 3	22 F
	4.g n.	Holdup Pipe Area Temperature - High	18	1	1, 2, 3	22 F
	4.K i	Holdup Pipe Area Ventilation ∆T - High	5	1	1, 2, 3	22F
	lii j.	Filter/Demineralizer Valve Room Area Temperature - High	5	1	1, 2, 3	22 F
Page	4.j k.	Filter/Demineralizer Valve Room Area Ventilation ∆T - High	5	1	1, 2, 3	22 F
Ŧ	I .	Pump Suction Flow - High	5	1	1, 2, 3	22 LA.9
ot	\subseteq					

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Table 3.3.6.1-1

TABLE 3.3.2-1 (Continued)

				ISOLATION ACTUATION	INSTRUMENTATI	ON	
	•		FOON LAS	VALVE GROUPS OPERATED BY SIGNAL	MINIMUM OPERA CHANNELS PER TRIP SYSTEM(D)	Note 2 to	ACTION
3	4.	<u>RE</u> /	ACTOR CORE ISOLATION COOL	ING SYSTEM ISOLATION		Surveillance Requi	rements
	3.4	a.	RCIC Steam Line Flow - High	8	1	1, 2, 3	22 F
	36	b.	RCIC Steam Supply Pressure - Low	8 9(0)	2	1, 2, 3	22 F
	3.d	C .	RCIC Turbine Exhaust Diaphragm Pressure - High	LA.SH 8	2	1, 2, 3	22 F
	3.e	d.	RCIC Equipment Room Temperature - High	8	1	1, 2, 3	22 乍
	3.J	8.	RCIC Steam Line Tunnel Temperature - High	8	1	1, 2, 3	22 F
	3.h	ſ.	RCIC Steam Line Tunnel Δ Teinperature - High	8	1	1, 2, 3	22 F
	31	g.	Drywell Pressure - High	(c)	2	1, 2, 3	22 F
	3,£	h.	RCIC Equipment Room ∆ Temperature - High	8	1	1, 2, 3	22 F

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> H J

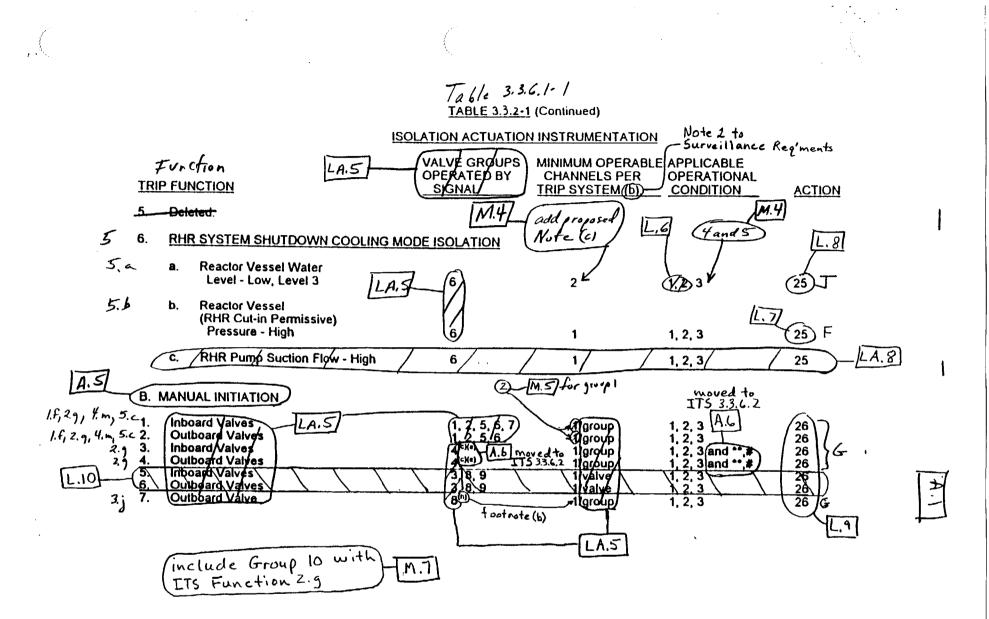
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add proposed Function 3.b

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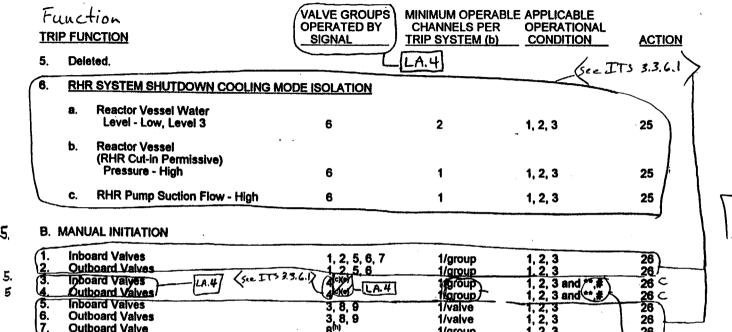
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Table 3.3.6.2-1

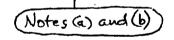
TABLE 3,3,2-1 (Continued)

ISOLATION ACTUATION INSTRUMENTATION





	(1.	Inboard Valves	1, 2, 5, 6, 7	1/group	1, 2, 3	26)
	12.	Outboard Valves	4 0 E B	1/group	1.2.3	
) .	3.		(See IT'S 2.3.6.12 (40)	1 group	1. 2. 3 and /*.#	26 C
5	4	Outboard Valves/	ARO-LAN	tharoup -	1, 2, 3 and ** #	26 C
	(5.	Inboard Valves	3, 8, 9	1/valve	1, 2, 3	28
	6.	Outboard Valves	3, 8, 9	1/valve	1, 2, 3	26
	7.	Outboard Valve		1/group	1, 2, 3	26



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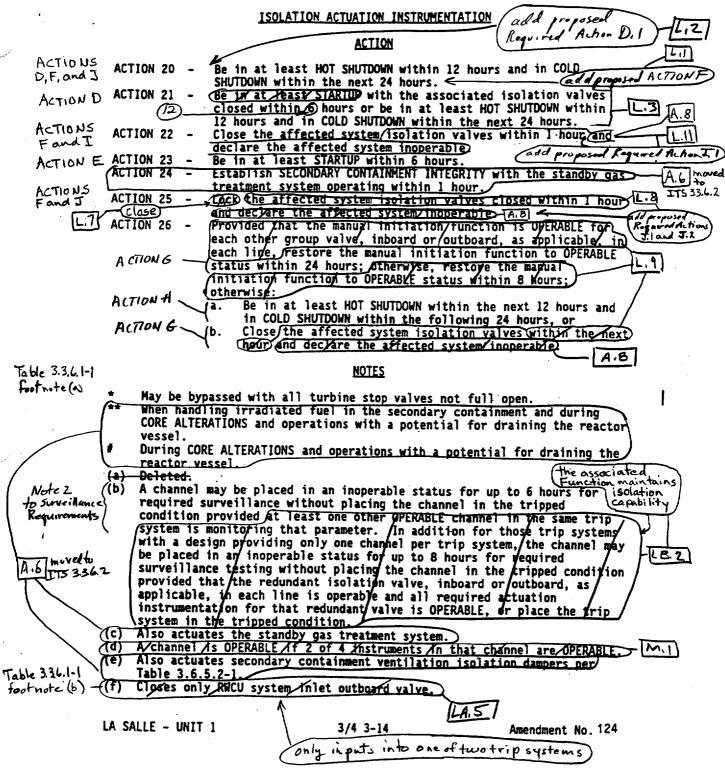
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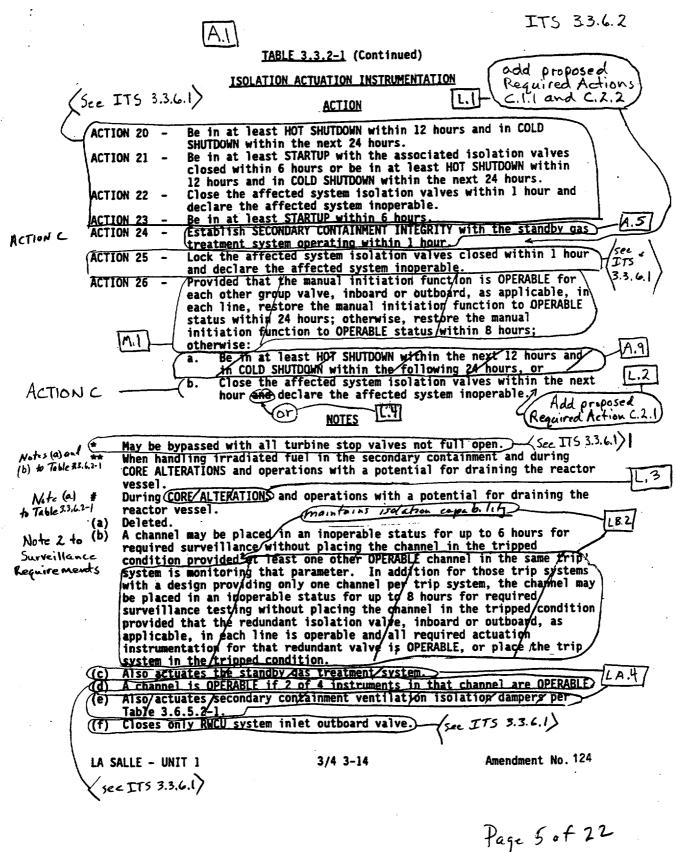


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TABLE 3.3.2-1 (Continued)

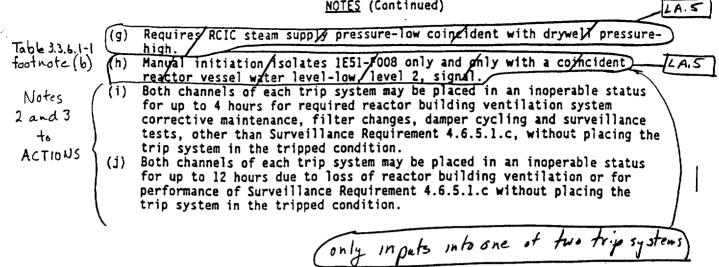






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NOTES (Continued)



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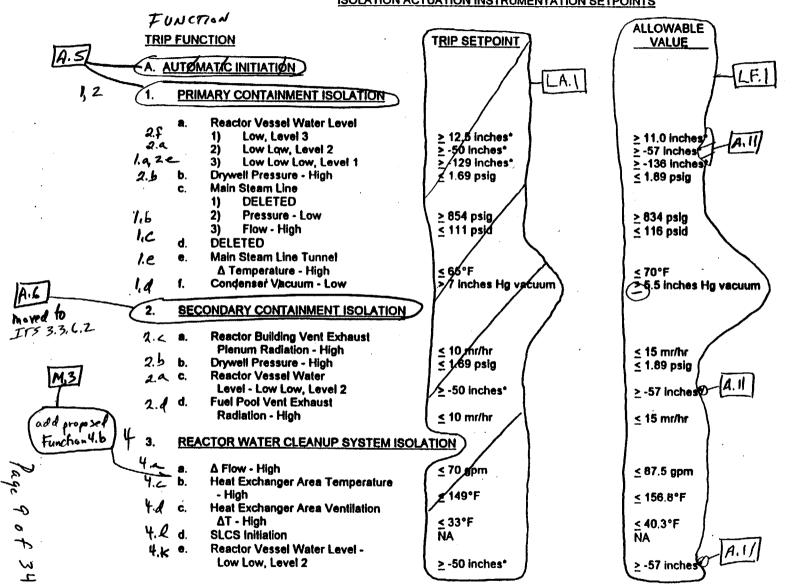
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Table 33.6.1-1 TABLE 3.3.2-2

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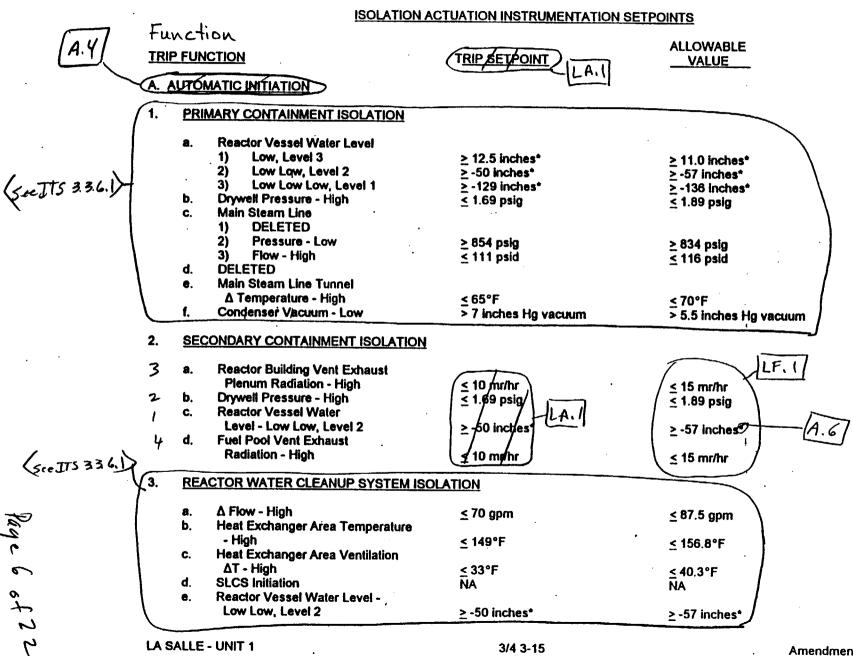
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ISOLATION ACTUATION INSTRUMENTATION SETPOINTS

LA SALLE - UNIT 1

Table 3.3.6.2-1 TABLE 3.3.2-2

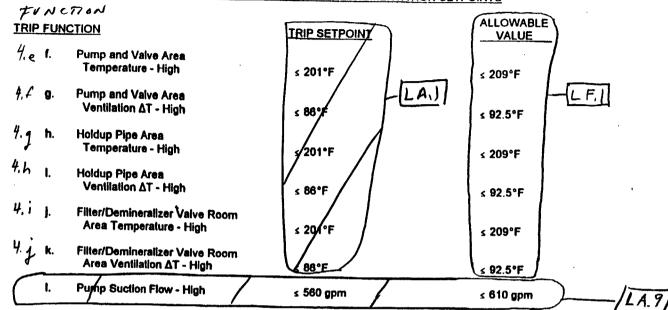


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Table 3. 361-1 TABLE 3.3.2-2, _ontinued)



ISOLATION ACTUATION INSTRUMENTATION SETPOINTS

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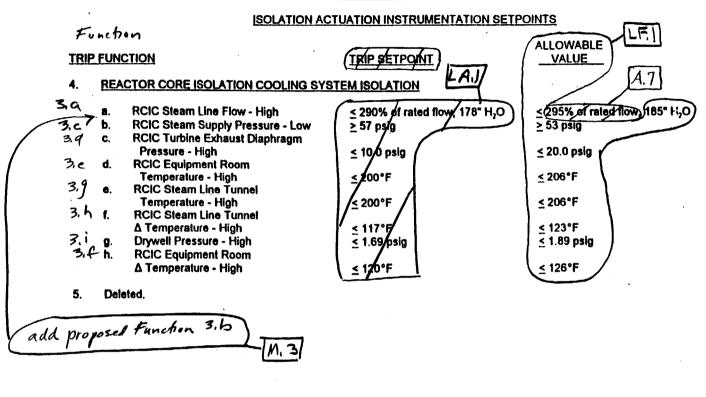
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Table 3.3.6.1-1

TABLE 3.3.2-2 (Continued)



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LA SALLE - UNIT 1

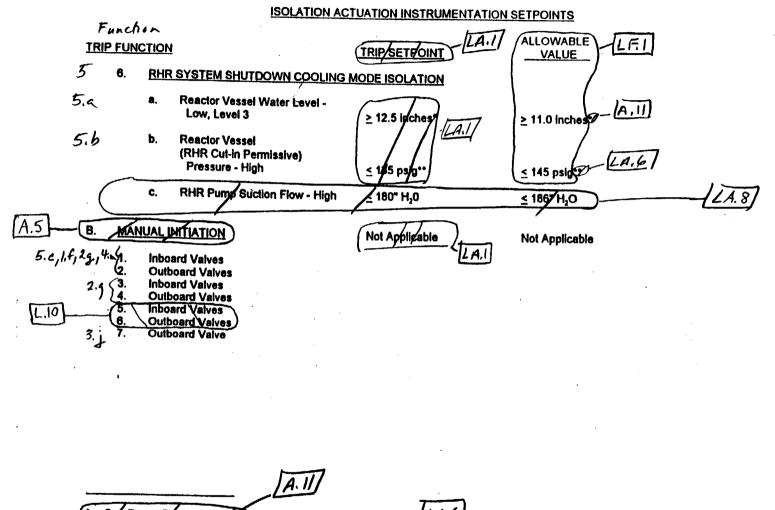
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Table 33.6.1-1

TABLE 3.3.2-2 (continued)



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See Bases Figure B 3/4 2-1
 LA.6
 Corrected for cold water head with reacter vessel flooged.

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LA SALLE - UNIT 1

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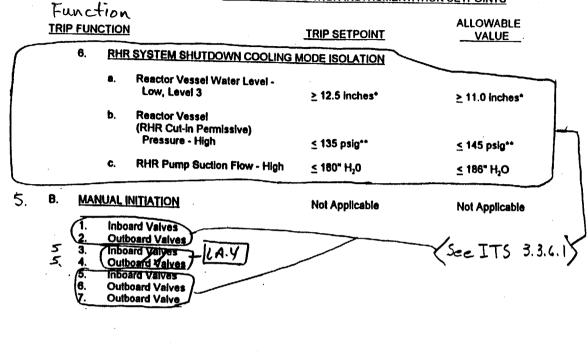
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TTS 3.3.6.2-1

TABLE 3.3.2-2 (Continued)

ISOLATION ACTUATION INSTRUMENTATION SETPOINTS



A.6 See ITS 3 3. 6. See Bases Figure B 3/4 3-1. Corrected for cold water head with reactor vessel flooded

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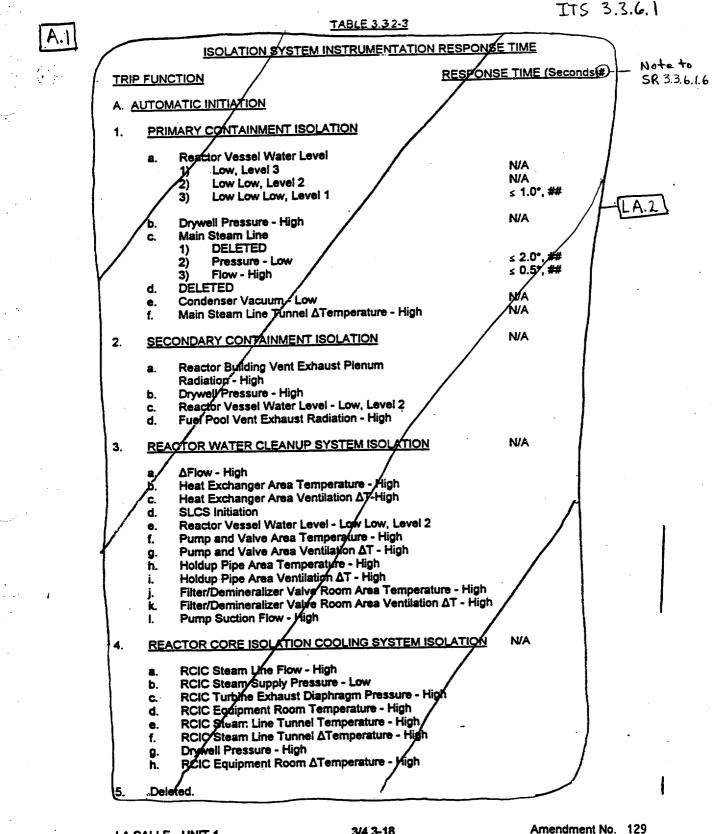
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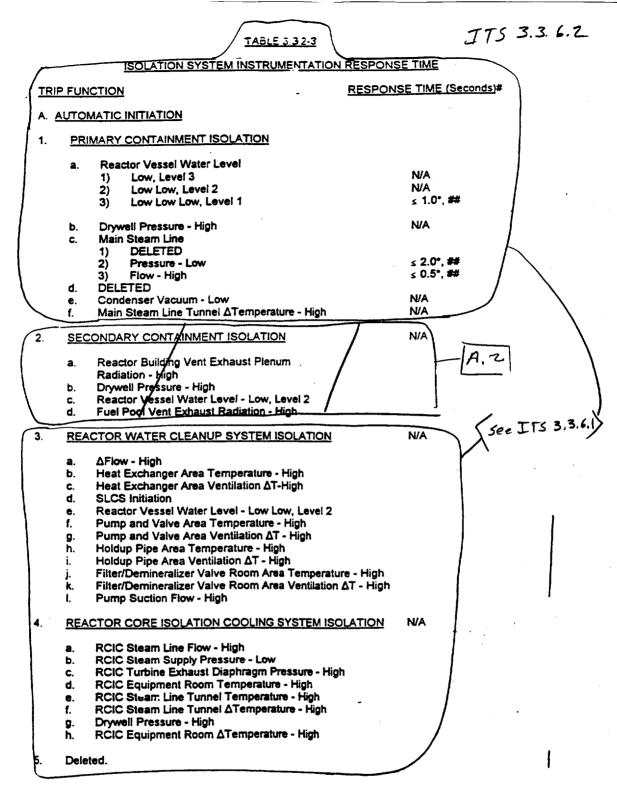


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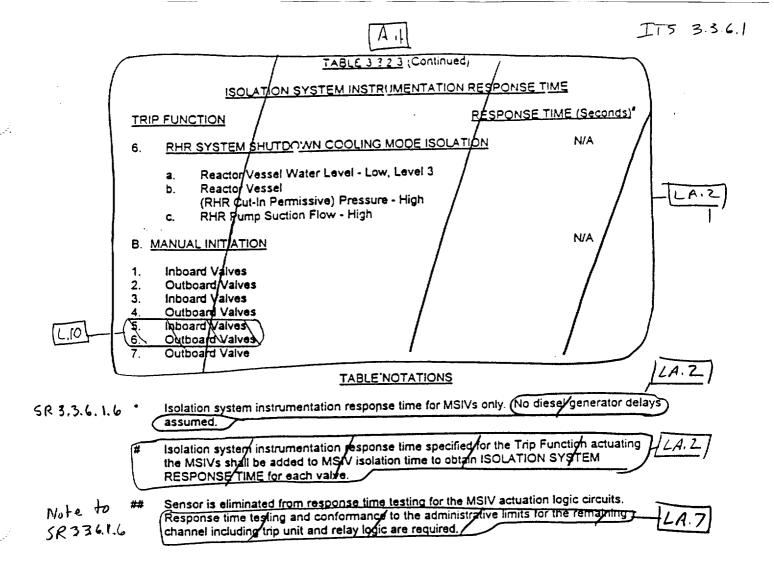
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(N/A Not Applicable. LR.2

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Table 33.6.1-1

IABL' 3.2.1-1

ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

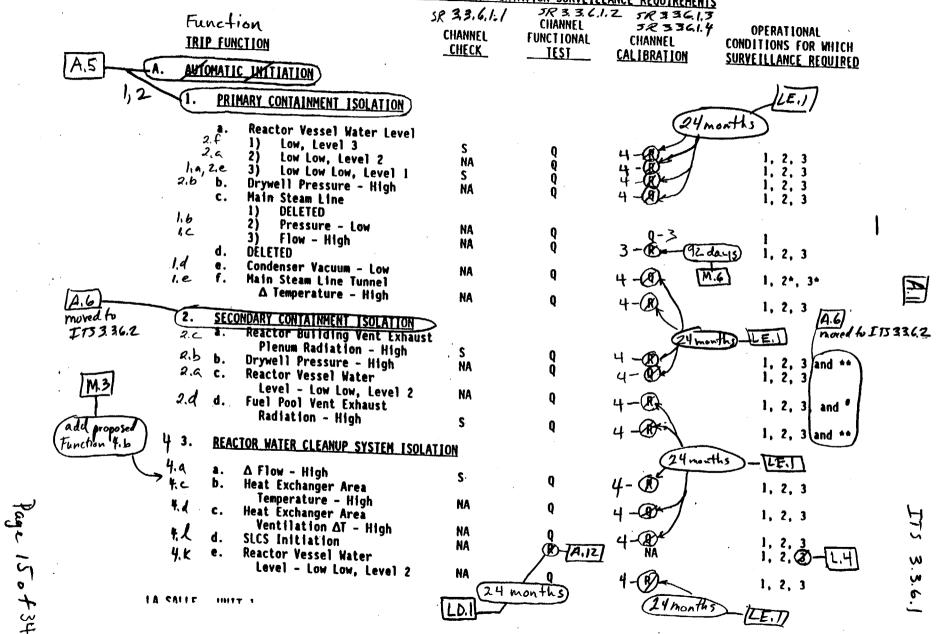


Table 3, 3, 6, 2-1

TABLE 4.3.2.1-1

ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

[A.4]	Funct <u>IRIP FU</u>	NCTION	SR 3.3.6.2.1 CHANNEL 	SR 3.3.6.2.2 CHANNEL FUNCTIONAL TEST	SR 3.3.6.2.3 CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH <u>SURVEILLANCE_REQUIRED</u>
A.	AUTOMAT	IC INITIATION				
	(1. PR	IMARY CONTAINMENT ISOLATION		· · · · · · · · · · · · · · · · · · ·		
	/ ··· •	•				
	a .	1) Low, Level 3 2) Low Low, Level 2 3) Low Low Low, Level 1	1 S NA S	Q Q	R R	1, 2, 3
(see IT'S 3.3.6.1)	b .	Drywell Pressure - High	NA	Q	Ô	1, 2, 3
X -	с.	1) DELETED		·	•	
		2) Pressure – Low 3) Flow – High	NA NA	Q	Q	
	d.	DÉLETED	na	ų	· R	1, 2, 3
•	e. f.	Condenser Vacuum - Low Main Steam Line Tunnel	NA	Q	Q	1, 2*, 3*
		<u>Δ Temperature - High</u>	NA	Q	R	1, 2, 3
	2. <u>SE</u> 3 a.	CONDARY CONTAINMENT ISOLATIO Reactor Building Vent Exh Plenum Radiation - High	aust	_	24 mon	
	Z b.		S NA	Q	Q	1, 2, 3 and 🗰
	l c.	Reactor Vessel Water		ų	(De-	1, 2, 3 Note (A) to Table 3.362-V)
(See ITS 336.1)	4 d.	Level - Low Low, Level ; Fuel Pool Vent Exhaust	2 NA	Q	B1 (24)	1, 2, 3, and
		Radiation - High	S	Q	Re G	1 2 3 and (11)
	3. <u>RE</u>	ACTOR WATER CLEANUP SYSTEM IS	SOLATION			
Pare	1 a. b.	∆ Flow - High Heat Exchanger Area	S	Q	. R	1, 2, 3
	c.	Temperature – High Heat Exchanger Area	NA	Q	q.	1, 2, 3
~		Ventilation ΔT - High	NA	. 0	'n	
e t	d.	SLCS Initiation	NA	Ř	NA NA	1, 2, 3 w
د ۲	e.	Reactor Vessel Water Level - Low Low, Level (9 NA			WL IN
22		Lover - Low Low, Level 4	2 <u>NA</u>	<u>q</u>	<u>R</u>	<u>l. 2. 3</u>
	CALLE					4

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Table 3.3.6.1-1 TABLE 4.3.2.1-1 (Continued)

	ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS						
	Functi	· · · · · · · · · · · · · · · · · · ·	3,3.6.1.1	58 3 36.1.2. CHANNEL	5R 3.3.4.1.3 SR 3.3.4.1.4	OPERATIONAL	
	TRIP FUNC		CHANNEL	FUNCTIONAL	CHANNEL CALIBRATION	CONDITIONS FOR WHICH SURVEILLANCE REQUIRED	
•			CHECK	1601			
1	4.e 1.	Pump and Valve Area			(24m)	onths)	1
	<i>u C</i>	Temperature - High	NA	Q	4-@~1	1, 2, 3	
• :	4.f g.	Pump and Valve Area			لحسب ال	<u>ل</u> ت	
•	11	Ventilation ΔT - High	NA	Q	4-@~ 1/LE	·]1,2,3	
•	4,g h.	Holdup Pipe Area Temperature - High	NA	•	4-@-	1, 2, 3	
	4.h 1.	Holdup Pipe Area	NA	Q	4-04-	1, 2, 3	
	[· · · ·	Ventilation ΔT - High	NA	Q	4-@e-1	1, 2, 3	
	4: 1.	Filter/Demineralizer Valve Room			1		
M.3		Area Temperature - High	NA	Q	4-@~1	1, 2, 3	
	4. y k.	Filter/Demineralizer Valve Room	•••	_			
	-	Area Ventilation ΔT - High	NA	<u>Q</u>	<u>4-@#</u>	1,2,3	
	<u>(i</u>	Pump Suction Floy - High	s /	Q	<u></u> R	1,2,3 LA.9	,
(add proposed	34. REA	CTOR CORE ISOLATION COOLIN	G SYSTEM ISO				
Function 3.6			O OTOTEN 100				
	3.9 8.	RCIC Steam Line Flow - High	NA	Q	3 - Q	1, 2, 3	
	3. C b.	RCIC Steam Supply Pressure -				t t	
	21	Low	NA	Q	4-@<	1, 2, 3	
	3.9 c.	RCIC Turbine Exhaust Diaphragm Pressure - High		~		4.0.0	
	3, e d.	RCIC Equipment Room	NA	Q	4-@~	1, 2, 3	
	700	Temperature - High	NA	Q	4-@-	1, 2, 3	
	3,9 e.	RCIC Steam Line Tunnel		~	4-62	1, 2, 0	
2		Temperature - High	NA	Q	4-@~	1, 2, 3	
R R	3.h f.	RCIC Steam Line Tunnel					
ه <u>ب</u>	21	∆ Temperature - High	NA	Q	4-@-	1, 2, 3	
ege.	3. g.	Drywell Pressure - High	NA	Q	4-@~~(1, 2, 3	
	3,£ h.	RCIC Equipment Room ∆ Temperature - High		•		4.0.0	
16		A Temperature - High	NA	Q	4-@*	1, 2, 3	
b	5. Dela	Hed.			(24 m	onths	1
to					(mining		
					TLE	T	
3 4							
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ITS 3.3.4

Table 3.3.6.1-1

TABLE 4.3.2.1-1 (Continued)

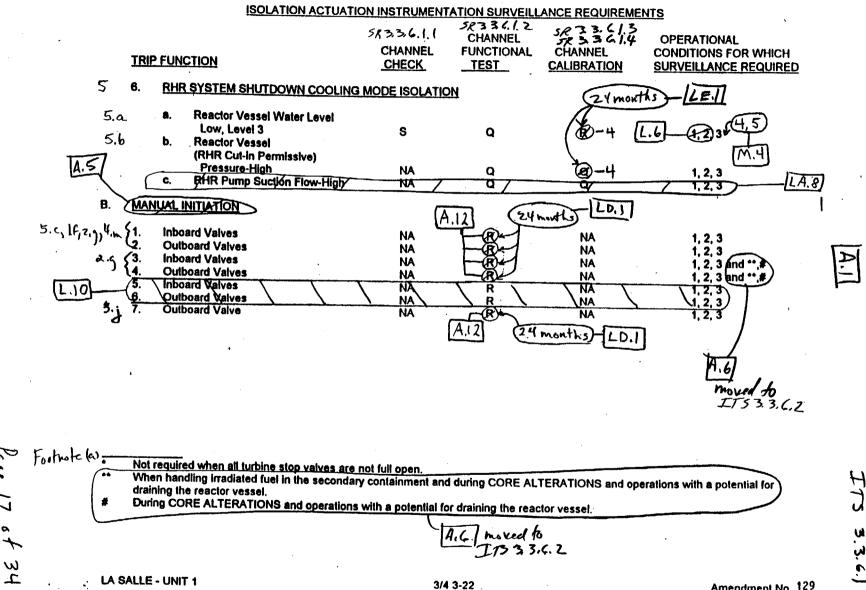


Table 3.3.6.2-1

TABLE 4.3.2.1-1 (Continued)

		ISOLATION ACTUA	TION INSTRUMENT	ATION SURVEILL		ENTS
	,	Function	SR 3.3.6.2.1	SR 3.3.6. 2. 2 CHANNEL	SR 3.3.6.2.3	OPERATIONAL
		TRIP FUNCTION	CHANNEL CHECK	FUNCTIONAL	CHANNEL	CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
		6. RHR SYSTEM SHUTDOWN COOLIN				
		a. Reactor Vessel Water Level		21		
	(See ITS 3, 3. C. 1)	Low, Level 3	S	Q	R	1, 2, 3
		b. Reactor Vessel (RHR Cut-in Permissive)				
		Pressure-High c. RHR Pump Suction Flow-High	NA NA	Q	Q	1, 2, 3
	B.				¥	
						······································
	F	2. Outboard Valves	NA NA	R R	NA NA	1, 2, 3
	5.5	3. (inboard Valves) 4. Outboard Valves)	A.T- NA	24	monthy NA L	D.1 1, 2, 3 and **,# 1, 2, 3 and **,#
		5. Inboard Valves 6. Outboard Valves	NA NA	R	NA	1, 2, 3 1, 2, 3
		7. Outboard Valve	NA	<u>R</u>	NA	1, 2, 3
						NI G III
						(Notrs (a) and (b) to Table 3.3.6.2-1)
				See ITS		
				(See ITS	3. 5, 6, 1/	
	Notes (a) and (b) to Table 3:3.62-1) Notes (a) to Table 3:3.6.2-1) #	Not required when all turbine stop valves an	re not full open,			
- L J	Table 3.3.62-1)	When handling irradiated fuel in the second draining the reactor vessel.				perations with a potential for
2 and	Notos (a) to Table 3.3.6.2-1) **	During CORE ALTERATIONS and operatio	ns with a potential fo	or draining the read	tor vessel.	
5	A DOL OF THE					
Page 10of 2		· · · ·				
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ITS 3, 3, 6. 2

A.

	una l'Adam	
	3/4.3.3	EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION ITS 3.3.5.1
1	AIMITING	CONDITION FOR OPERATION
L CO 3, 3.5.1	thannels fet cons fable 3.	the emergency core cooling system (ECCS) actuation instrumentation [LA.] shown in Table 3.3.3-1 shall be OPERABLE with their type setports istent with the values shown in the Trip Setpoint column of 3.3-2 and with EMERGENCY CORE COOLING SYSTEM RESPONSE TIME as shown in
G	Table 3.	(4.3)
		ILITY: As shown in Table 3.3.3-1. A.2 add proposed ACTIONS Note A.2 TIJ3.35/ard
2	ACTION:	2/5.25/24
ACTION		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 LA. /
ACTION	1 A ^{b.}	With one or more ECCS actuation instrumentation channels inoperable. take the ACTION required by Table 3.3.3-1. $[1.7]$
ACTIONS Eand	F°.	With either ADS trip system "A" or "B" inoperable, restore the inoperable trip system to OPERABLE status within: place Channelin trip of
		1. 7 days, provided that the HPCS and RCIC systems are OPERABLE.
		2. 72 hours.
ACTION	Ġ	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.
		(150) L.2
i	SURVEILL	ANCE REQUIREMENTS
to Surveillance a	operable Chañnel	Each ECCS actuation instrumentation channel shall be demonstrated by the performance of the CHANNEL CHECK. CHANNEL FUNCTIONAL TEST and CALIBRATION operations for the OPERATIONAL CONDITIONS and at the ies shown in Table 4.3.3.1-1.
SR 3.3.5,1.5	4.3.3.2 all chan	LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of nels shall be performed at least once per 22 months. 24-LD.1
· (Table 3. 18 month that all	The ECCS RESPONSE TIME of each ECCS trip function shown in 3.3-3 shall be demonstrated to be within the limit at least once per s. Each test shall include at least one channel per trip system such channels are tested at least once every N times 18 months where N is 1 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 A.1 TTS 3.3.8.1 3/4.3.3 EMERGENCY CORE COOLING SASTEN WATION INSTRUMENTATION A.2 LIMITING CONDITION FOR OPERATION (LOP) 3.3.3 The <u>Amergancy core cooling system</u> (ECCS) actuation instrumentation channels shown in Table 3.3.3-1 shall be OPERABLE with their trip setpoints LCD 3.3.8.1 1.41 Set consistent with the values shown in the Trip Setpoint column Table 1.3.3-D and with EMERGENCY CORE COOLING SYSTEM RESPONSE TH ID Suble 35 IA3 add pro posed Actions Note APPLICABILITY: As shown in Table 3.3.3-1. A. 4 ACTION: LOP With an Excs actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of A.2 Table 3.3.3-2, declare the channel inoperable until the channel restored to OPERABLE status with its crip setpoint adjusted ACTION A LA-1 A . 2 With one or more ECCS actuacian instrumentation channels inoperable, take the ACTION required by Table 3.3.3-1. ь. With either ADS trip system "A" or "B" inoperable, restore the с. inoperable trip system to OPERABLE status within: SEE 7 days, provided that the HPCS and RCIC systems are OPERABLE. 1. ITS 3.3,5.1 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 - LOP 4.3.3.1 Each ECS CIDILION 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 Notelto 750e TTS Sardeillowes frequencies shown in Table 4.3.3.1-1. 2.351 LA.Z 4.3.3.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of SR 3.3.8.1.3 all channels shall be performed at least once per to months. .0,1 The ECCS RESPONSE TIME of each ECCS trip function shown if .3.3.3 1.3.3.3 The ECCS RESPONSE TIME OF each ECCS trip function shown interaction and the term of the second seco

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	INSTRUMENTATION A.T. ITS 3.5.
	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 ADS trip system "A" or "B" inoperable, restore the inoperable trip system to OPERABLE status within:
	1. 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
	4.3.3.1 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.
583.5.1.9-{	4.3.3.3 The ECCS RESPONSE TIME of each ECCS trip function (shown in Table 3.3.2.2) shall be demonstrated to be within the limit at least once per M months. Each test shall include at least one channel per trip system fuck 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.
· · · · ·	(224)-LD.1 (ADD Aroposed SR 3.5.1.9 Note) A.5
	(See ITS 3.3.5.1)

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set con Table 3	s shown in Table 3.3.3-1 shall be OPERABLE with their trip setpoints sistent with the values shown in the Trip Setpoint column of .3.3-2 and with EMERGENCY CORE COOLING SYSTEM RESPONSE TIME as shown
APPLICA	ILLITY: As shown in Table 3.3.3-1.
ACTION:	ILLII: AS SHOWN IN INDIE 3.3.3-1.
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.
Þ.	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:
	1. 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.
SURVEILI	ANCE REQUIREMENTS
CHANNEL	Each ECCS actuation instrumentation channel shall be demonstrated by the performance of the CHANNEL CHECK. CHANNEL FUNCTIONAL TEST and CALIBRATION operations for the OPERATIONAL CONDITIONS and at the ies shown in Table 4.3.3.1-1.
4.3.3.2 all chan	LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of nels shall be performed at least once per 18 months.
4.3.3.3	The ECCS RESPONSE TIME of each ECCS trip function shown in LA.4

A.1

(See ITS 3.3.5.1)

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5R 3.5.2.7

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Table 3,35.1-1 <u>TABLE 3,3.3-1</u>

	Fu TRIP		Nor	MINIMUM OPERABLE CHANNELS PER TRIP 	APPLICABLE OPERATIONAL CONDITIONS	ACTION
			SION I TRUE SYSTEM			
1.	<u> </u>	1.	RHR-A (LPCI MODE) & LPCS SYSTEM			
	a.		Reactor Vessel Water Level - Low Low Low, Level 1	2(p)	1, 2, 3, 4*, 5*	30 B
	ь.	ъ.	Drywell Pressure - High	2(b)	1, 2, 3	30 5
	e.	с.	LPCS Pump Discharge Flow-Low (Bypass)	1	1, 2, 3, 4*, 5*	31 D
	g.	d.	LPCS and LPCI A Injection Valve Injection Line Pressure-Low (Permissive)	1/valve	1, 2, 3 4 ⁴ , 5 ⁿ	32 C 33 B
	d.	€.	LPCS and LPCI A Injection Valve Reactor Pressure-Low (Permissive)	2	1, 2, 3 4 ⁴ , 5 ⁴	38 D 33 B
2	Ċ	ť.	LPCI Pump A Start Time Delay Relay	1	1, 2, 3, 4*, 5*	32
	f	g.	LPCI Pump A Discharge Flow-Low (Bypass)	1 <u>LA.3</u>	1, 2, 3, 4*, 5*	31 þ
	h	h.	Nanual Initiation	1/dWISTOD	1, 2, 3, 4 ^a , 5 ^a	34 C
L	2.	AUT	MATIC DEPRESSURIZATION SYSTEM TRIP SYSTEM "A" to Table	3.5.1-1		
	م	۵.	Reactor Vessel Water Level - Low Low Low, Level 1 (Coincident with)	2 ^(b)	1, 2, 3 [±]	30 E
	þ,	b.	Drywell Pressure - High	2 ^(b)	1, 2, 3	30 E.
	с,		Initiation Timer	1	1, 2, 3	32 F I
	di	đ.	Reactor Vessel Water Level - Low, Level 3 (Permissive)	1	1, 2, 3	32 E
•	e,		LPCS Pump Discharge Pressure-High (Permissive)	2 1.1.27	1, 2, 3	32 F
•	£.		LPCI Pump A Discharge Pressure-High (Permissive)	6 2 [LA.3/	1, 2, 3	32 F
	h.		Manual Initiation	2 AVEIVISION	1, 2, 3	34 F
}	д.	-	Drywell Pressure Bypass Timer	00	1, 2, 3	32 F
	•	1.	Manual Inhibit	1/division	1, 2, 3	34)

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Table 33.5.1-1

TABLE 3.3.3-1 (Continued)

	FUNC TRIP_FUN		MINIMUM OPERABLE CHANNELS PER TRIP FUNCTION ^(A)	APPLICABLE Operational Condition	ACTION
2	سم بن 1.	RHR B & C (LPCI MODE)		•	
		Reactor Vessel Water Level - Low, Low Low, Level 1 Drywell Pressure - High LPCI B and C Injection Valve Injection Line Pressure-Low (Permissive) LPCI Pump B Start Time Delay Relay LPCI Pump Discharge Flow - Low (Bypass) Manual Initiation LPCI B and C Injection Valve Reactor Pressure-Low (Permissive)	2(b) 2(b) 1/valve 1 1/pump 1/ <u>division</u> <u>LA.3</u> 2	1. 2. 3. 4°. 5° 1. 2. 3 1. 2. 3 4. 5 1. 2. 3. 4°. 5° 1. 2. 3. 4°. 5°	30 B 30 B 32 D 33 8 32 C 31 D 34 C 38 D 33 B
5	2.		j • •		
	a. a. b. b. c. c. d. d. e. e.	Reactor Vessel Water Level - Low Low Low, Level 1 coincident with Drywell Pressure - High Initiation Timer Reactor Vessel Water Level - Low, Level 3 (Permissiv LPCI Pump B and C Discharge Pressure - High (Permissive)	2 ^(b) 2 ^(b) 1 <i>M.G</i> 2/pump <i>QKG/UKSLOW LA.3</i>	1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3	30E 30E 32F 32E 32F 34F
·	3, t. f. g. fi.	Hanual Initiation (M.) Drywell Pressure Bypass Timer Manual Inhibit	D 1/division	1, 2, 3 1, 2, 3 1, 2, 7	32 F

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

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ITS 3.3.5.1

Table 3.3.5.1-1

TABLE 3.3.3-1 (Continued)

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

Function **HINIMUM OPERABLE** APPLICABLE CHANNELS PER TRIP **OPERATIONAL** TRIP FUNCTION FUNCTION (*) CONDITION ACTION DIVISION 3 ARIP SISTEN 3 1. HPCS SYSTEM Q. a. Reactor Vessel Water Level - Low, Low, Level 2 4 (b) 1, 2, 3, 1, 2, 3 1, 2, 3, 35 B b. b. Drywell Pressure - High-35 B Reactor Vessel Water Level-High, Level 8 C. c. 2(F)-LA.3 32 Deleced Deleted d f. Pump Discharge Pressure-High (Bypass) 1, 2, 3, 4, 310 eg. HPCS System Flow Rate-Low (Permissive) 1, 2, 3, 31D Fh. Manual Initiation 1 division 1, 2, 3, 340 4 LUSS OF POWER MINIMUM APPLICABLE TOTAL NO. INSTRUMENTS OPERABLE **OPERATIONAL** OF INSTRUMENTS INSTRUMENTS (d) TO TRIP CONDITIONS ACTION 4.16 kv Emergency Bus Undervoltage 1. 2/bus 2/bus 2/bus 1, 2, 3, 4", 5" 37 (Loss of Voltage) 4.16 kv Emergency Bus Undervoltage 2. 2/bus 2/bus 2/bus 1, 2, 3, 4**, 5** (Degraded Voltage) Moved to ITS 3.3.8 . 1. Note 2 to SUrveillance A channel instrument may be placed in an inoperable status for up to 6 hours during periods of required (a) Requirements surveillance without placing the trip system/channel/instrument in the tripped condition provided at least one other OPERABLE channel/instrument in the same trip system is monitoring that parameter. Note (6) to Table 3.3.51-1 +(b) Also actuates the associated division diesel generator. Provides signal/to close HPCS/pump discharge valve only on s-out-of- y logic, (CT A channel/instrument may be placed in an inoperable status for up to 2 hours during periods of required तता Note (a) to surveillance without placing the trip system/channel/instrument in the tripped condition provided at least one other OPERABLE channel/instrument in the same trip system is monitoring that parameter. Table 3.3.5.1-1 Jage 4 of 30 Applicable when the system is required to be OPERABLE per Specification 3.5.2 or 3.5.3. ì Required when ESF equipment is required to be OPERABLE. Note (c) fo Not required to be OPERABLE when reactor steam dome pressure is $\leq (122)$ psig Table 3.3.5.1 moved -hI75338 311 3 36 104

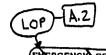


Table 3.38,1-(TABLE 3.3.3-1 (Continued)

(ENERGENCY CORE COOLING SYSTEM ACTUATION) INSTRUMENTATION

	FUNCTION TRIP_FUNCTION	MINIMUM OPERABLE CHANNELS PER TRIP <u>FUNCTION</u> ^(a)	APPLICABLE OPERATIONAL CONDITION	ACTION
	C. DIVISION 3 TRIP SYSTEM	_		
, SEE	1. HPCS_SYSTEM			
LTS 3.3.5.1	a. Reactor Vessel Water Level - Low, Low, Level 2 b. Drywell Pressure - High c. Reactor Vessel Water Level-High, Level 8 d. Deleted e. Deleted	4 (b) 4 (b) 2 (c)	1, 2, 3, 4 [*] , 5 [*] 1, 2, 3 1, 2, 3, 4 [*] , 5 [*]	35 35 32
	 Pump Discharge Pressure-High (Bypass) g. HPCS System Flow Rate-Low (Permissive) h. Manual Initiation 	1 1 1/division	1, 2, 3, 4 [°] , 5 [°] 1, 2, 3, 4 [°] , 5 [°] 1, 2, 3, 4 [°] , 5 [°]	31 31 34
	D. LUSS OF POWER	MINIM INSTRUMENTS OPERA S TO TRIP INSTRU		
l,a, 2.4 l.6, l.c, l. J.c, I.d,7	1. 4.16 kv Emergency Bus Undervoltage (Loss of Voltage) 4. 2. 4.16 kv Emergency Bus Undervoltage (Degraded Voltage)	2/bus 2/bus 2Xbus 2/bus	s 1, 2, 3, 1 ¹	· 5 37 A
-			(MIT
< SEE ITS 3.3,5,1)	 (a) A channel instrument may be placed in an inoperable s surveillance without placing the trip system/channel/ one other OPERABLE channel/instrument in the same tri (b) Also actuates the associated division diesel generato (c) Provides signal to close HPCS pump discharge valve on 	'instrument in the trip p system is monitoring pr.	pped condition provi ; that paraméter.	required ded at least
NOTE 2 TO SURVEZULANCES	(d) A channel/instrument may be placed in an inoperable s surveillance without placing the trip system/channel/	tatus for up to 2 hour instrument in the trip	s during periods of	required
<see 3.3.5.1="" it's=""> (</see>	on other OPERABLE channel/instrument in the same tri Applicable when the system is required to be OPERABLE	p system is monitoring per Specification 3.	that narabeter.	
<see ,<="" 3.3.5.1="" its="" th=""><td> Required when ESF equipment is required to be OPERABL Not required to be OPERABLE when reactor steam dome p </td><td>E. ressure is ≤ 122 psig.</td><td></td><td>2</td></see>	 Required when ESF equipment is required to be OPERABL Not required to be OPERABLE when reactor steam dome p 	E. ressure is ≤ 122 psig.		2
Page			7	
e e	· · · · · · · · · · · · · · · · · · ·	(provided the maintains	LOP initiation	ω ω «
う <i>王</i>		Capability		8

TABLE 3.3.3-1 (Continued) IT3 3.3.5.1 EMERGENCY CORE COOLING SYSTEM ACTUATION TNSTRUMENTATION ACTION ACTION 30 - /With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip Function requirement: ACTIONS With one channel inoperable, place the inoperable channel in A.7 the tripped condition within 24 hours or declare the Band E associated system inoperable. ALTION G Proposed Browing ให. With more than one channel inoperable, declare the [1] 3 associated system inoperable add proposed Required Action D.1 ACTION 31 - / With the number of OPERABLE channels less than required by the Minimum OPERABLE channels per Trip Function requirement, place ACTION D Che inoperable channel in the tripped condition within 24 hours restore the inoperable channel to OPERABLE status within 7 days for declare the associated system inoperable. ACTION G)-Action C. I, E MZ With the number of OPERABLE channels less than required (by the ACTION 32. -Minimum OPERABLE Channels per Trip Function requirement & declare ACTIONS the associated ADS trip system on ECCS inoperable within 24 C.E. and F hours. L.11 for A.7 ADS Level 3 /With the number of OPERABLE channels less than the Minimum ACTION 33 nissive. De OPERABLE Channels per Trip Function requirement, place the ACTION B 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 ACTIONS the inoperable channel to OPERABLE status within 24 hours or C and F declare the associated ADS trip system or) ECCS inoperable. A.7 With the number of OPERABLE channels less than required by the ACTION 35 -Minimum OPERABLE Channels per Trip Function requirement 18 add proposed channel For one trip system) place that trip/system in the tripped Required Action ACTION condition within 24 hours or declare the HPCS 2 system ß add proposed Perinoperable. (For both trip systems, declare the HPCS system Ъ. inoperable ACTION 36 Deleted. With the number of OPERABLE instruments less than the Minimum ACTION 37 -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 3.3.8.1

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. •	A.2 LOP EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION ACTION	١
	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. 	
SEE ITS	b. With more than one channel inoperable, declare the associated system inoperable.	
13351	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.	
	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 - With the number of OPERABLE instruments less than the Minimum ACTION A, Operable Instruments, place the inoperable instrument(s) in the tripped condition within 1 hour or declare the associated ACTION B margency diesel generator inoperable and take the CTION required by Specification 3.8.1.1 or 3.8.1.2 as appropriate.	
	A.5	

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TABLE 3.3.3-1 (Continued) ITS 3,3.5.1 SYSTEM ACTUATION INSTRUMENTATION TERGENCY CORE COOLING ACTION (add proposed Required Action D.T ACTION 38 - (With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per trip function requirements: M.Z With one channel inoperable, remove the inoperable channel Wighin 24 Hours: restore the inoperable channel to OPERABLE status within 7 days for declare the associated ECCS systems ACTION D **a** . Inoperable. (With both channels inoperable, restore at least one channel to OPERABLE status within one hour of declare the associated ECCS systems inoperable. ь. ACTION G hours

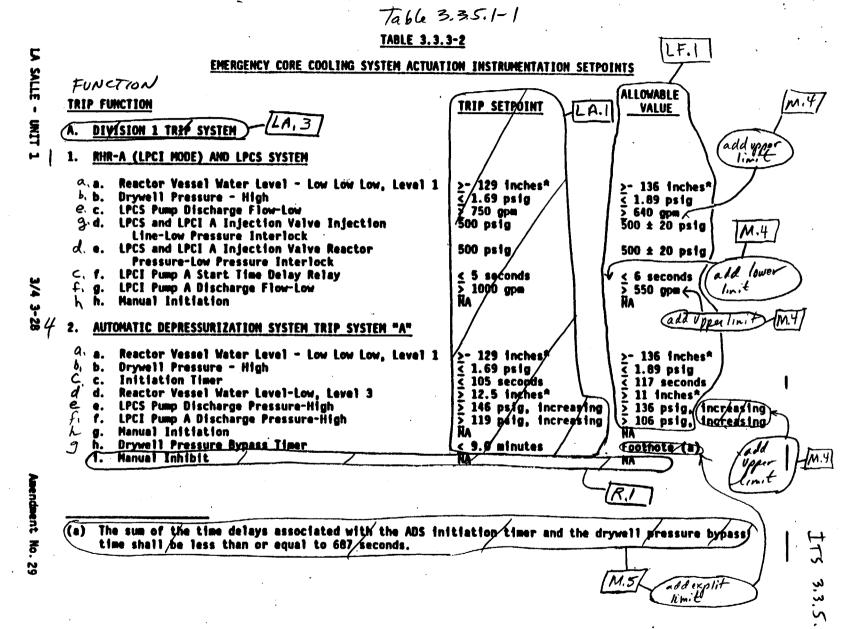
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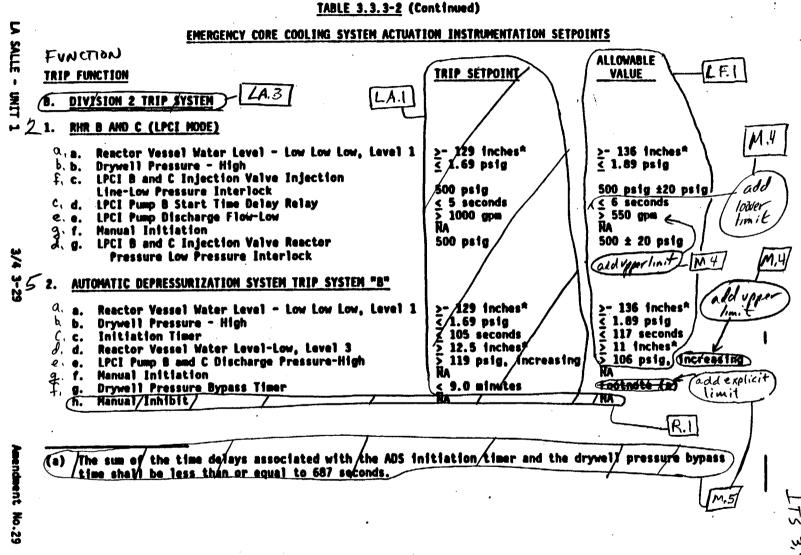
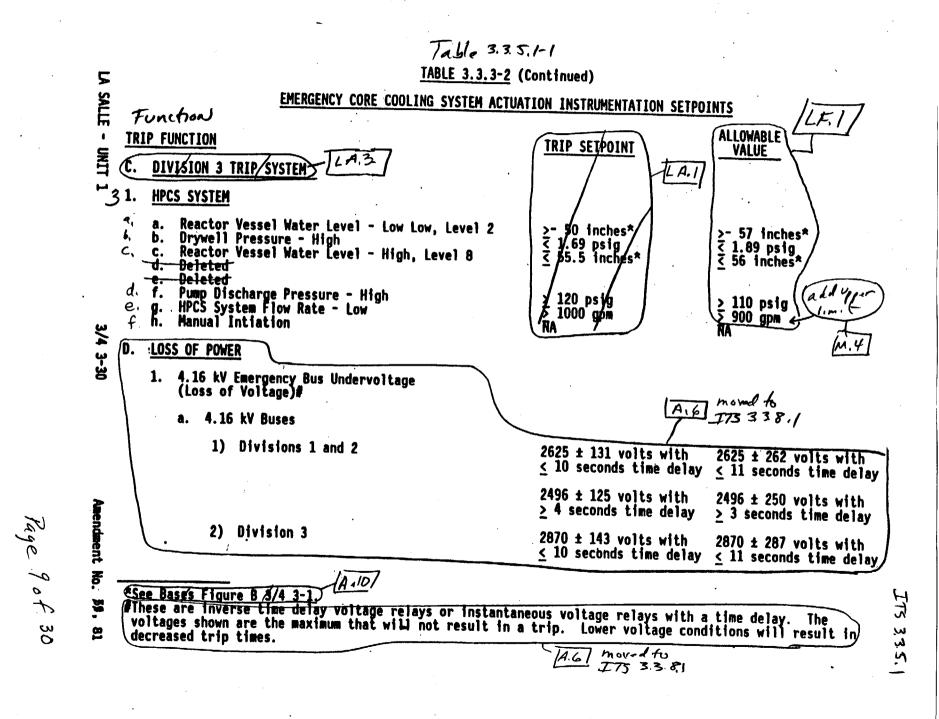


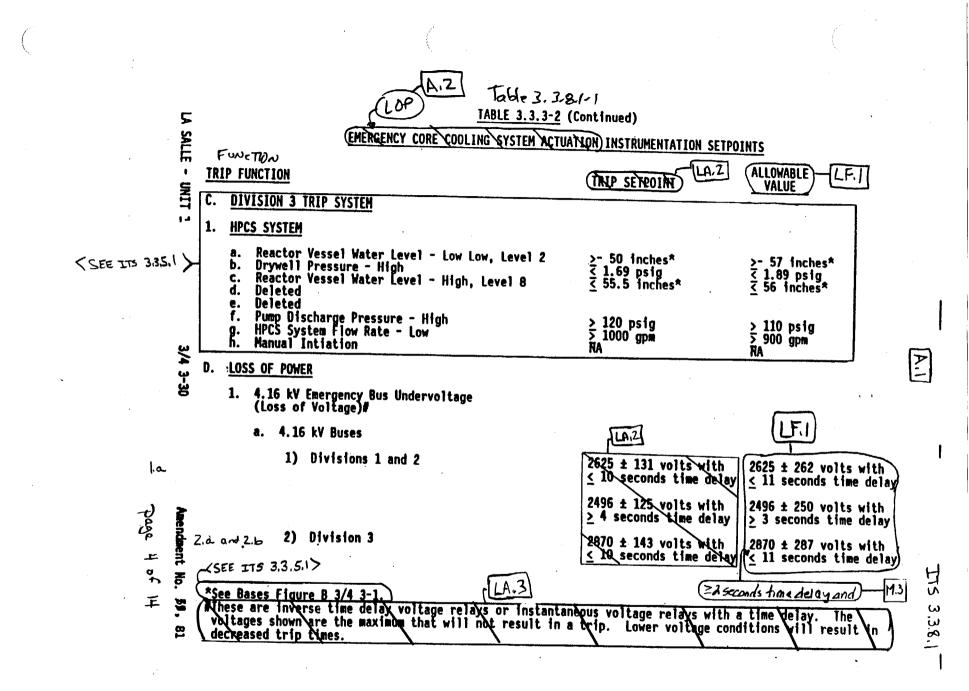
Table 3.3.5.1-1

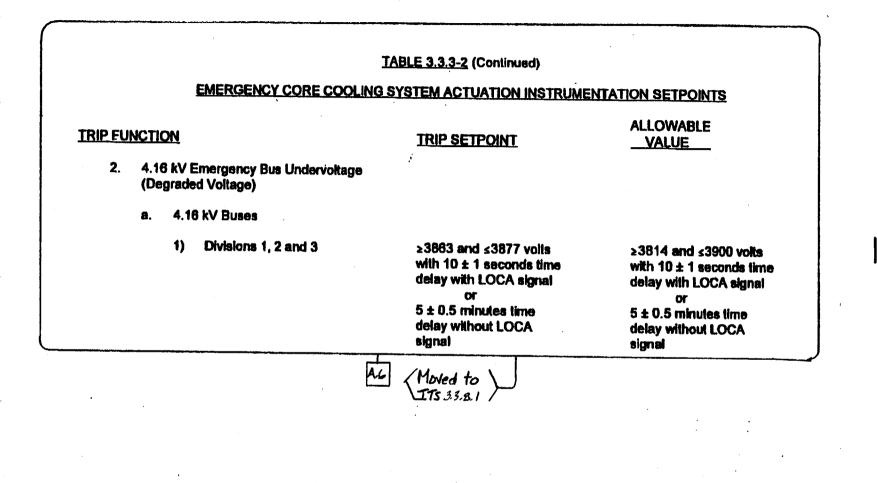
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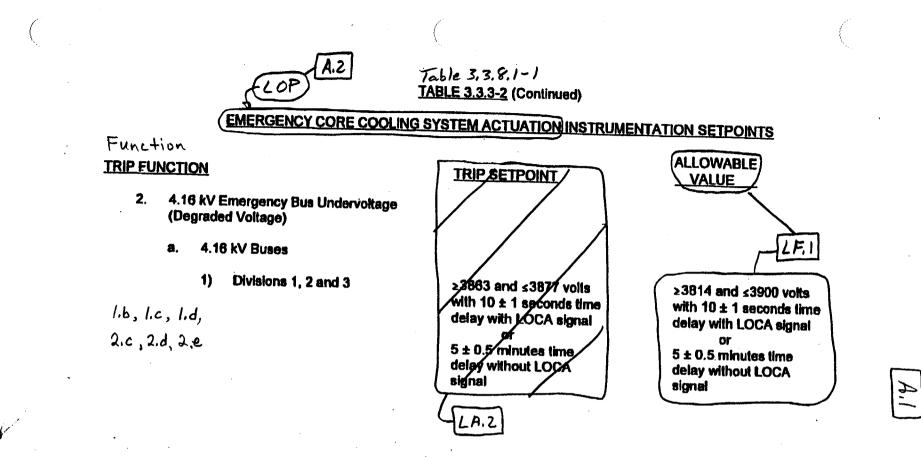
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3.3.8.1

~		
(EMERGENCY CORE COOLING SYSTEM	RESPONSE TIMES
EĆ	22	RESPONSE TIME (Seconds)
1.	LOW PRESSURE CORE SPRAY SYSTEM	≤ 60 ^{°, #}
2.	LOW PRESSURE COOLANT INJECTION MODE OF RHR SYSTEM (Pumps A, B, and C)	≤ 50 ^{°, #}
3.	AUTOMATIC DEPRESSURIZATION SYSTEM	NA
4.	HIGH PRESSURE CORE SPRAY SYSTEM	≤ 41 [#]
5.	LOSS OF POWER	NA

TABLE 3.3.3-3

*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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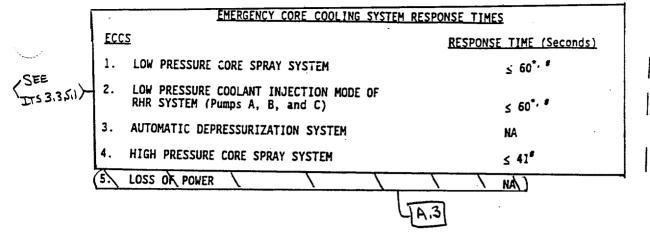
A.2 ITS 3.5.1 and 3.5.2 Pagell of 30

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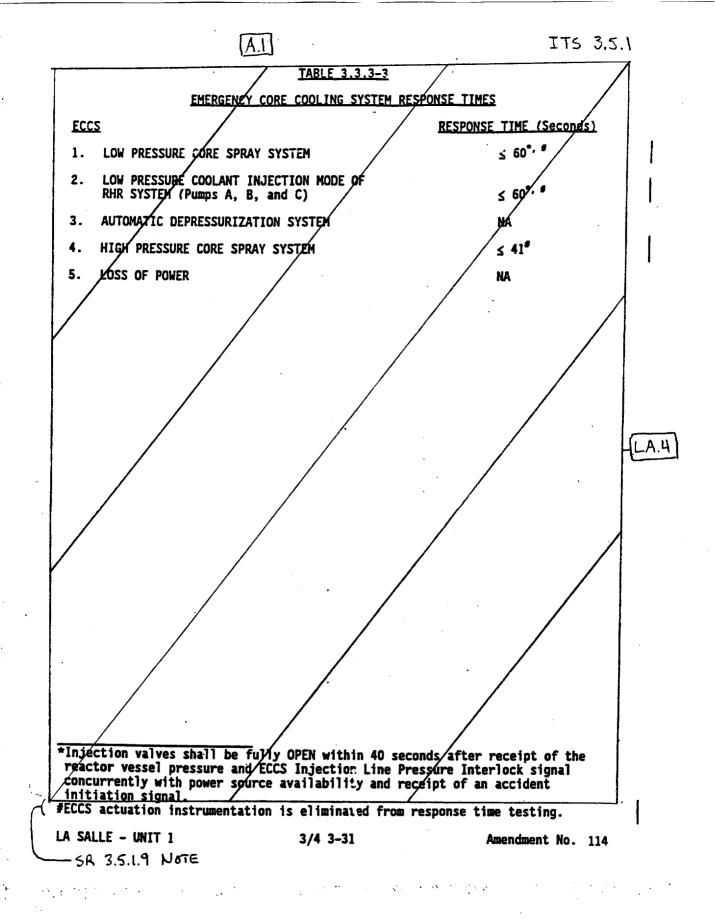
ITS 3.3.8.1

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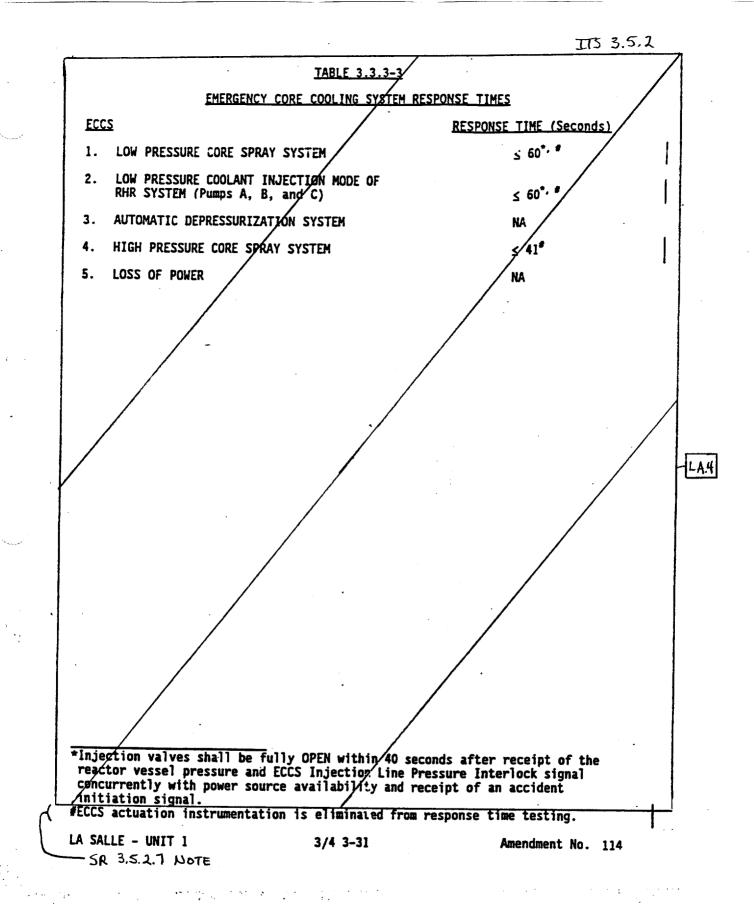
TABLE 3.3.3-3



< SEE ITS 3.3.5.1> *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. LA SALLE - UNIT 1 3/4 3-31 Amendment No. 114



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Table 33.5.1-1 TABLE 4.3.3.1-1

EMERGENCY CORE COOLING	SYSTEM ACTUAT SR 3.3.5.1.1 CHANNEL _CHECK_	I <u>on_Instrumentatic</u> メスコラスト、フ CHANNEL FUNCTIONAL <u>TEST</u>	DN <u>SURVEILLANCE REC</u> SR オラ.S.(.オ JL オオ.S.(. 4 CHANNEL CALIBRATION	OPERATIONAL OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
A. DIVLEION I THE SYSTEM LA, 3 1. RHR-A (LPCI MODE) AND LPCS SYSTEM			(24 mont	45 LE.1
 a. Reactor Vessel Water Level - Low Low Low, Level 1 b. Drywell Pressure - High c. LPCS Pump Discharge Flow-Low g. d. LPCS and LPCI A Injection Valve Injection Line Pressure Low 	S NA NA	Q Q Q	¥-0 4-0-3	1, 2, 3, 4°, 5° 1, 2, 3 1, 2, 3, 4°, 5°
Interlock Interlock d. e. LPCS and LPCI A Injection Valve Reactor Pressure Low Interlock C. f. LPCI Pump A Start Time Delay Rei f. g. LPCI Pump A Flow-Low A. h. Manual Initiation			4-00 4-00 0-3 0-3 NA	1, 2, 3, 4° , 5° 1, 2, 3, 4° , 5°
4 2. AUTOMATIC DEPRESSURIESTION SYSTEM TRI	P SYSTEM -A-	A.9/		·· ·· · · · · · · ·
A.Reactor Vessel Water Level - Low Low Low, Level 1b.Drywell Pressure-HighC.C.Initiation Timerd.d.Reactor Vessel Water Level - Low, Level 3e.LPCS Pump DischargePressure-High	S NA NA S NA	0 0 0 0 0	4 - 0 - 3 4 - 0 - 3 4 - 0 - 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
f. f. LPCI Pump A Discharge Pressure-High b. g. Manual Initiation g. h. <u>Drywell Pressure Bypass Timer</u> 1. Manual Inhibit	na Na Na Na	D.17	4-0- NA Q-3	1, 2, 3 $1, 2, 3$ $1, 2, 3$ $1, 2, 3$ $7, 2, 3$
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Table 3.3.5.1-1 TABLE 4.3.3.1-1 (Continued)

			EMERGENCY CORE COOLING	<u>SYSTEM ACTUAT</u>	ION_INSTRUMENTATIO		OUIREMENTS `
	TR	IP_FI	UNCTION LA.3	SR 3.3.5.1.1 CHANNEL _CHECK_	SR 33.5 / 2 CHANNEL FUNCTIONAL TEST	SR 3.3.5.1.3 SR 3.3.5.1.4 CHANNEL CALIBRATION	OPERATIONAL Conditions for which Surveillance_required
Ż	(B. 1.		B AND C (LPCI MODE)			24month	B) [LE.]
	a,	a.	Reactor Vessel Water Level -			TT	T
	bi fi	b. c.	Low Low Low, Level 1 Drywell Pressure – High LPCI B and C Injection Valve	s Na	Q	4-00	1, 2, 3, 4 [*] , 5 [*] 1, 2, 3
	C. e.	đ. e. f.	Injection Line Pressure Low Interlock LPCI Pump B Start Time Delay Rel LPCI Pump Discharge Flow-Low Manual Initiation	NA ay NA NA NA		4-B+ 0-3 0-3 NA	1, 2, 3, 4 [°] , 5 [°] 1, 2, 3, 4 [°] , 5 [°] 1, 2, 3, 4 [°] , 5 [°] 1, 2, 3, 4 [°] , 5 [°]
_	ð	g.	LPCI B and C Injection Valve Reactor Pressure Low Interlock	NA	e	4- @¥	1, 2, 3, 4', 5'
5	2.	AUTO	MATIC DEPRESSURIZATION SYSTEM TRI	P_SYSTEM B.			1 -
	а, Ь, С,	а. b. с.	Reactor Vessel Water Level - Low Low Low, Level 1 Drywell Pressure-High Initiation Timer	S NA NA	Q	4-00-	1, 2, 3 1, 2, 3 1, 2, 3
	đ.	ð.	Reactor Vessel Water Level -		¥		1 , 1 , 2
	e,	e.	Low, Level 3 LPCI Pump B and C Discharge Pressure-High	S NA	Q	4-00	1, 2, 3
	g.	f.	Manual Initiation	NA	[LD.1]-00-1A.9]	H-CRA-NA	1, 2, 3 1, 2, 3
	ť.	h. 1.	Drywell Pressure Bypass Timer Manual Inhibit	NA NA	<u> </u>	0-3 NA	1, 2, 3
	(<u>к</u>	NA	R.1

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Table 33.5.1-1 TABLE 4.3.3.1-1 (Continued)

EMERGENCY_CORE COOLING SYSTEM ACTUATION INSTRUMENTATION SURVEILLANCE REOUIREMENTS

SR 3.3.5.1.3 5R 3,3.5.1.2 SR 33.5.1.1 SB 33.51.4 CHANNEL **OPERATIONAL** FUNCTION CHANNEL FUNCTIONAL CHANNEL CONDITIONS FOR WHICH A.3 TRIP FUNCTION CHECK TEST **CALIBRATION** SURVEILLANCE REQUIRED DIVISION 3 TRIP SYSTEM ć. 24 months 3 1. HPCS SYSTEM Reactor Vessel Water Level а, Δ. 1, 2, 3, 4^{*}, 5^{*} 1, 2, 3 Low Low, Level 2 S NA 6. Ь. Drywell Pressure-High Reactor Vessel Water Level-High c. с. 1, 2, 3, 4, 5 S Level 8 -Deleted 4.---Deleted -8-.. 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 d. £. Pump Discharge Pressure-High NA ė, £, HPCS System Flow Rate-Low HA g. 3ò NA A.9 h. Manual Initiation 1 D. NA D. LOSS OF POWER Þ 4.16 kV Emergency Bus Under-1. NA NA voltage (Loss of Voltage) R 1, 2, 3, 1, 2, 3, HA NA R 2. 4.16 kV Emergency Bus Undervoltage (Degraded Voltage) A.6 moved to ITS 33.8,1 Note (a) to Tuble 3.3.5.1-1 Note (c) to Table 33.51-1 Not required to be OPERABLE when reactor steam dome pressure is less than or equal to 22 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. moved to ITS 3.3.8.1 N ω w n

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(LOP-A.Z	Table 3.3.8.(-) TABLE 1.3.3.1-1 (Continued)

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

	FUNCTION TRIP FUNCTION C. DIVISION 3 TRIP SYSTEM	CHANNEL _CIJECK_	CHANNEL FUNCTIONAL 	\$23.3.8.1.1 Se 3.3.8.1.2 CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE_REQUIRED
< SEE 115 3.3.5.1 >	 HPCS SYSTEM Reactor Vessel Water Level - Low Low, Level 2 Drywell Pressure-High Reactor Vessel Water Level-H Level 8 Deleted Deleted Pump Discharge Pressure-High HPCS System Flow Rate-Low Manual Initiation 	S NA Igh S	Q Q Q Q R	R Q R Q Q NA	1, 2, 3, 4 [*] , 5 [*] 1, 2, 3 1, 2, 3, 4 [*] , 5 [*] 1, 2, 3, 4 [*] , 5 [*]
1.a, 2.a, 2. 1.b, 1.c, 1.d, 2.c, 2.d,	D. LOSŠ OF POWER 6 1. 4.16 kV Emergency Bus Under- voltage (Loss of Voltage) 2. 4.16 kV Emergency Bus Under- voltage (Degraded Voltage)	NA NA	NA NA	24 months LD.11 LE.1	1, 2, 3, 4, 5 1, 2, 3, 4, 5 M, 1
<pre>SEE ITS 3.3 Sil >(Applicability T C F +1 S F </pre>	 Not required to be OPERABLE when When the system is required to be 3.5.2. ** Required when ESF equipment is realized in the system of the system			as than or equal to aligned, as applical	122 psig., ole, per Specification HI V W W

Specification 3.3.4.7 .INSTRUMENTATION 3/4.3.4 RECIRCULATION PUMP TRIP INSTRUMENTATION ATWS RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION LIMITING CONDITION FOR OPERATION LCO 3.3.4.1 The anticipated transient without scram recirculation pump trip 3.3.4.Z (ATWS-RPT) system instrumentation channels shown in Table 3.3.4.1-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.5.4.1-2 LA. APPLICABILITY: OPERATIONAL CONDITION 1. ACTION: (Add proposed Actions Note A.2 With an ATWS recirculation pump trip system instrumentation channel trip setpoint less conservative than the value shown in the Allowable a. ACTIONS Values column of Table 3.3.4.1-2, declare the channel inoperable until the channel is restored to OPERABLE status with its trip setpint adjusted consistent with the Trip Setpoint value. A, Band C (LA.) With the number of OPERABLE channels one less than required by the A.3 ь. Minimum OPERABLE Channels per Trip System requirement for one or both M.1 ACTIONA trip systems, place the inoperable channel (s) in the tripped condition within A Yours (14 Mays) (Add proposed Note to Require (Add proposed Note to Required Action A.2) With the number of OPERABLE channels two or more less than required .**B**.{ by the Minimum OPERABLE Channels per Trip System requirement for one Condition A trip system and: (All proposed Note to Required Action A.2 If the inoperable channels consist of one reactor vessel water level channel and one reactor vessel pressure channel. Place Required LB. both/inoperable channels in the tripped condition within at 14 days Action A.2 hours, for, if this action will initiate a pump trip, declare the If the inoperable channels include two reactor vessel water level channels or two reactor vessel pressure channels, declare Reguirad L.F the trip system inoperable Action A.1 Action A: 1 d. 1 With one trip system inoperable, restore the inoperable trip system ACTION B to OPERABLE status within 72 hours on be in at least STARTUP within 6.2 ACTION D The next 6 hours. 11.3 Add proposed Required function L.Z ALTION C - With both trip systems inoperable, restore at least one trip system to OPERABLE status within 1 hour or be in at least STARTUP within the ACTION D - next 6 hours. Add proposed Required Action D. SURVEILLANCE REQUIREMENTS 5Rs 3.3, 4,2.1, 3.3.4.2.2, 3.3.4.2.3 4.3.4.1.1 Each ATWS recirculation pump trip system instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations at the frequencies shown in Table 4.3.4.1-1. SR 3.3.4.2.4 4.3.4.1.2 LOGIC SYSTEM FUNCTIONAL TESTS and <u>simulated automatic operation</u> of all channels shall be performed at least once per (18) months. A.4 Ω.

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TABLE 3.3.4.1-1

ATWS RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION

TRIP_FUNCTION			MINIMUM OPERABLE CHANNEL PER TRIP SYSTEM ^(a)		
LCO 3.3.4,2, a	1.	Reactor Vessel Water Level - Low Low, Level 2	2		
LC033.4.2. b	2.	Reactor Vessel Pressure - High	. 2		

-Note to Surveillance Requirements

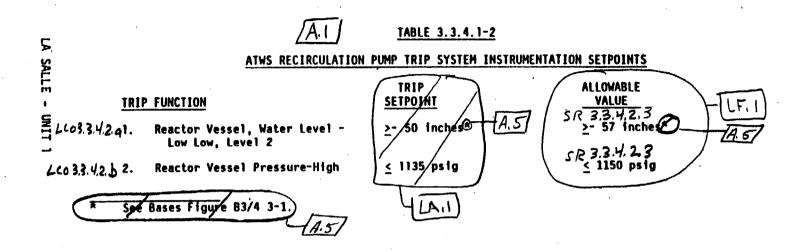
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9 1 ∞ (a) One channel in one trip system may be placed in an inoperable status for up to 6 hours for required surveillance provided that all other channels are OPERABLE.

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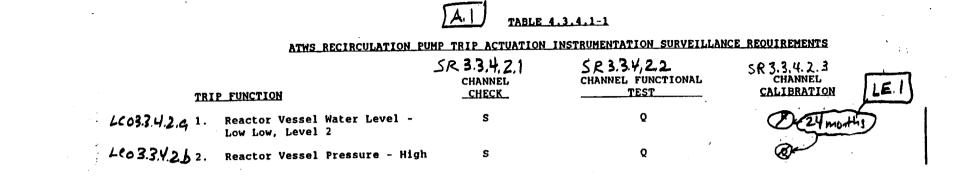
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Specification 3.3.4,2



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Specification 3.3.4,2

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Specification 3.3.4,1 INSTRUMENTATION END-OF-CYCLE RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION 4.2 add proposed LCO 3.34.1.6 LIMITING CONDITION FOR OPERATION 3.3.4.2 The end-of-cycle recirculation pump trip (EOC-RPT) system instrumentation channels LCO 33.4.1.a LA.3 shown in Table 3.3.4.2-1 shall be OPERABLE with their mp setpoints set consistent with the values shown in the Tab Setpoint column of Table 3.3.4.2-2 and with the END-OF-CYCLE RECIRCULATION PUMP TRIP SYSTEM RESPONSE TIME as shown in Table 2.3.4.2-3. 2 SR 3.3.4.1.5 APPLICABILITY: OPERATIONAL CONDITION 1, when THERMAL POWER is greater than or ΥA. equal to 25% of RATED THERMAL POWER with any recirculation pump in fast speed 6.2 add proposed ACTIONS Note ACTION: With an end-of-cycle recirculation pump trip system instrumentation channel trip A.4 setpoint less conservative than the value shown in the Allowable Values column of а Table 3.3.4.2-2, declare the channel inoperable until the channel is restored to ACTIONS LA.3 OPERABLE status with the channel setpoint adjusted consistent with the Trip A and B add proposed Required Action A.1 and Required Action A.2 Note Setpent value. With the number of OPERABLE channels one less than required by the Minimum M.I OPERABLE Channels per Trip System requirement for one or both trip systems b. place the inoperable channel(s) in the tripped condition within Rhours B.I ACTION A With the number of OPERABLE channels two or more less than required by the Minimum OPERABLE Channels per Trip System requirement(s) for one trip system CONDITION A and: If the inoperable channels consist of one turbine control valve channel and one turbine stop valve channel, place both inoperable channels in the tripped Reguined LB, J Action A.2 condition within (2)hours. 72 If the inoperable channels include two turbine control valve channels or two 2. turbine stop valve channels. declare the trip system inoperable 3 Resuir With one trip system in operable, restore the inoperable trip system to OPERABLE Action A ACTIONS status within (72)hours. Otherwise, either: AandB Increase the MINIMUM CRITICAL POWER RATIO (MCPR) Limiting Condition for Operation (LCO) to the EOC-RPT inoperable value per Specification 3.2.3 1. Reguised . 1 Action B.2 within the next mour or, Reduce THERMAL POWER to less than 25% of RATED THERMAL POWER M.2 Reguired 2. within the nex 6 flours. Action C.2 unction With both trip systems inoperable, restore at least one trip system to OPERABLE e. L.1 ACTIONS status within hous Otherwise, either: A and B Add Required Action C. 1 2 Amendment No. 130 3/4 3-39 LA SALLE - UNIT 1

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INSTRUMENTATION

END-OF-CYCLE RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

Increase the MINIMUM CRITICAL POWER RATIO (MCPR) Limiting Condition for Operation (LCO) to the EOC-RPT inoperable value per Specification 3.2.3 Required 1. Action B.2 within the next mour or, reduce THERMAL POWER to less than 25% of RATED THERMAL POWER Required 2 within the next Phours Action C.2 M, 2 SURVEILLANCE REQUIREMENTS 4.3.4.2.1 Each end-of-cycle recirculation pump trip system instrumentation channel shall be SR 3.3.4.1.1 demonstrated OPERABLE by the performance of the CHANNEL FUNCTIONAL TEST and SR 3.34.12 CHANNEL CALIBRATION operations at the frequencies shown in Table 4.3.4.2.1-1. AS 4.3.4.2.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all SR3.3.4.13 channels shall be performed at least once per months. L D. I 711 SR 33415 4.3.4.2.3 The END-OF-CYCLE RECIRCULATION PUMP TRIP SYSTEM RESPONSE TIME of SR 3.3.4.1.5 each trip function chewn in Table 3.3.4.2.3) shall be demonstrated to be within its limit at least once per comonths. Each test shall include at least the logic of one type of channel input furbine control valve fast closure or turbine stop valve closure, such that both types of channel inputs are tested at least once per 30 months. The time allotted for breaker arc suppression SR 3.3.4.1.6 (shall be verified by test at least once per 60 months. LA.3 A.4 L D.1 Add Note 1 to SR 3.3.4.1.5 ,ζ Add Note 2 to SR 3,3.4.1. 5

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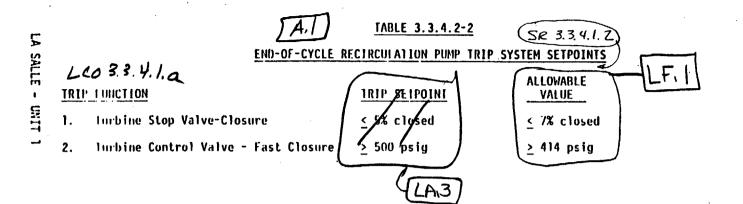
TABLE 3.3.4.2-1 END-OF-CYCLE RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION MINIMUM Note to Surveillance Reguirements OPERABLE CHANNELS TRIP FUNCTION LCO 3.3.4, 1,a Turbine Stop Valve Closure Turbine Control Valve - Fast Closure 2. Note to Surveillance Reguirements A trip system may be placed in an inoperable status for up to 6 hours for required surveillance provided that the other trip, system is OPERABLE. This function shall not be automatically bypassed when THERMAL POWER is greater than or equal to 25% of RATED THERMAL POWER. (a) (6)

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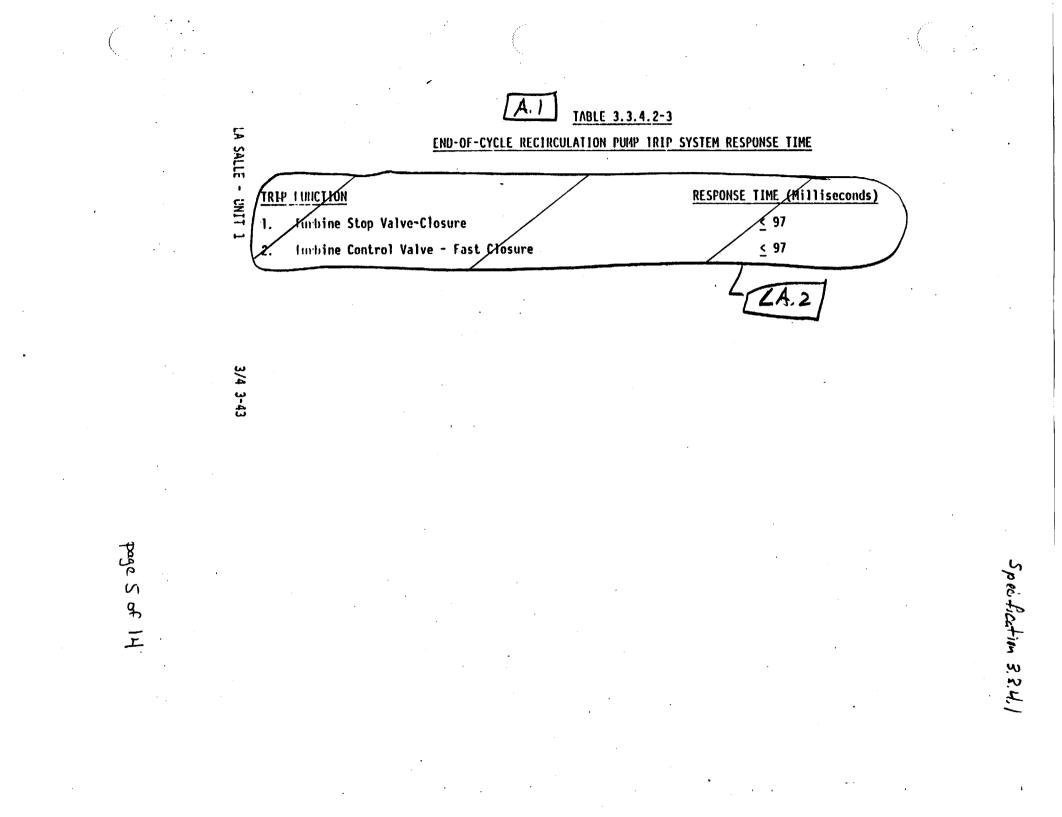
Specification 3.3.4.

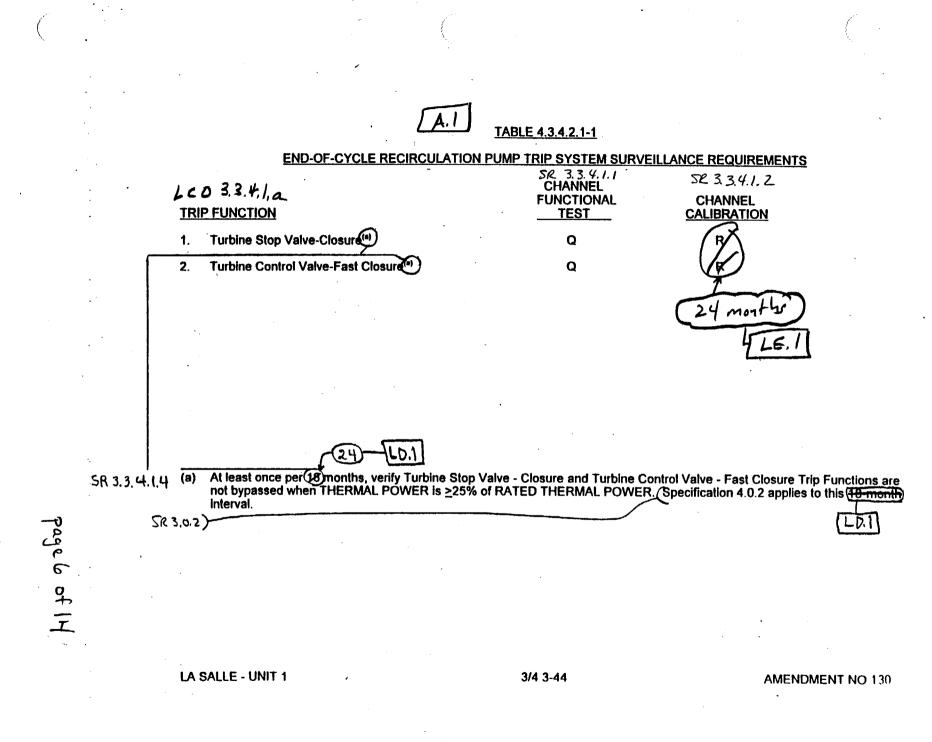


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Specification 3.3.4.





Specification 2.3.4.

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3/4.3.5 REACTOR CORE ISOLATION COOLING SYSTEM ACTUATION INSTRUMENTATION

A.ľ

LIMITING CONDITION FOR OPERATION

LC033.5.2 3.3.5 The reactor core isolation cooling (RCIC) system actuation instrumentation channels shown in Table 3.3.5-1 shall be OPERABLE with their trip seppoints set consistent with the values shown in the Trip Setpoint column of Table 3.3.5-2.

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

ACTION:	add proposed ACTIONS thate	
a.	With a RCIC system actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values	
ACTION A	column of Table 3.3.5-2, declare the channel inoperable until the	1.13

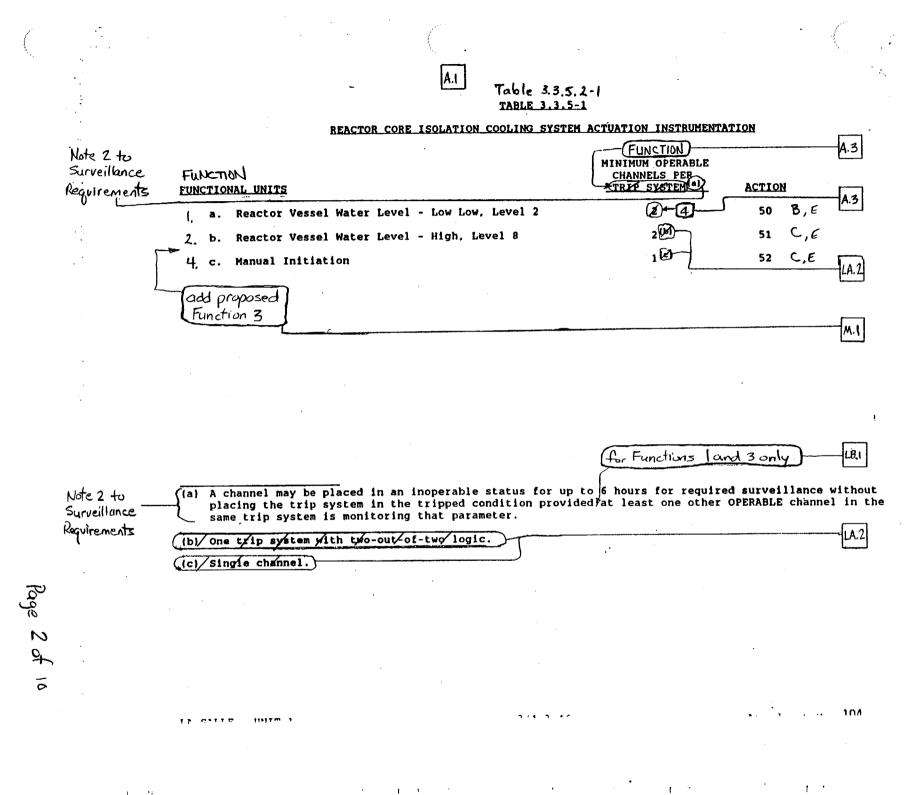
adjusted consistent with the Trip Setpoint value.

b. {With one or more RCIC system actuation instrumentation channels inoperable, ACTIONA _____ {take the ACTION required by Table 3.3.5-1.

Note 1 to	SURVEILLANCE REQUIREMENTS	
Surveillan Requirement		
5R3.3.5.2.4 -	4.3.5.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all channels shall be performed at least once per (18) months.	1
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ITS 3.3.5.2

REACTOR CORE ISOLATION COOLING SYSTEM ACTUATION INSTRUMENTATION
(add proposed Required Action B.1)
ACTION 50 - With the number of OPERABLE channels less than required by the ACTION B
a. For one trip system, place the inoperable channel in the tripped condition within 24 hours or declare the RCIC system (inoperable.
ACTION E
ACTIONS Bond E b. For both trip systems, declare the RCIC system inoperable. L.I.
ACTION 51 - (With the number of OPERABLE channels less than required by the ACTION C (minimum OPERABLE Channels per Trip System requirement, declare)
ACTION E the RCIC system inoperable (within 24 hours) (restore channe)
ACTION 52 - (With the number of OPERABLE channels less than required by the A.4 ACTION C. Minimum OPERABLE Channels per Trip System requirement, restore A.4 the inoperable channel to OPERABLE status within 24 hours or Action E
Horibia Ma - Landard and a sacan Inoperable.
(add proposed ACTION D) M.1

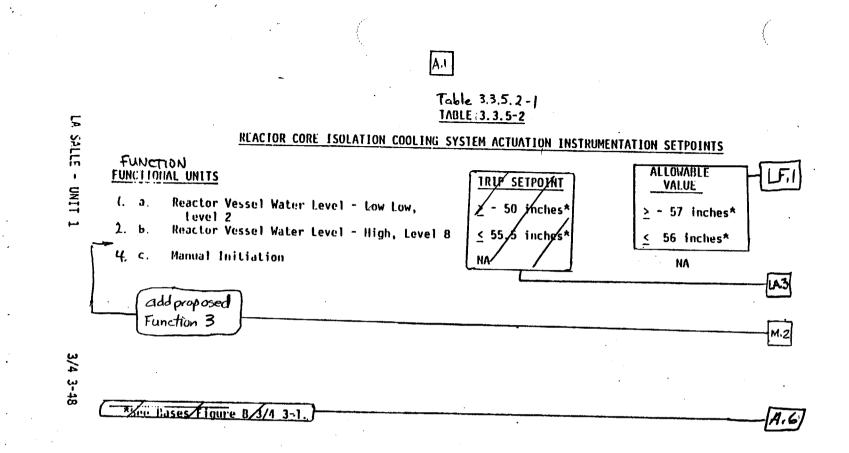
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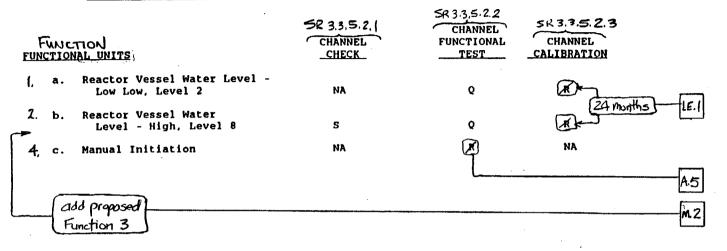
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ITS 3.3.5.2

Table 3.3.5.2-1 TABLE 4.3.5.1-1

A.A

REACTOR CORE ISOLATION COOLING SYSTEM ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS



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INSTRUMENTATION

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3/4.3.6 CONTROL ROD WITHDRAWAL BLOCK INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

10 3.3.7.1 3.3.6 The control rod withdrawal block instrumentation channels shown in Table 3.3.6-1 shall be OPERABLE with their thip setpoints set consistent with the values shown in the Thip Setpoint column of Table 3.3.6-2.

APPLICABILITY: As shown in Table 3.3.6-1.

ACTION:

ACTIONS A and B A and B 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 sebpoint adjusted consistent with the Trip Stpoint value.

A and B 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.

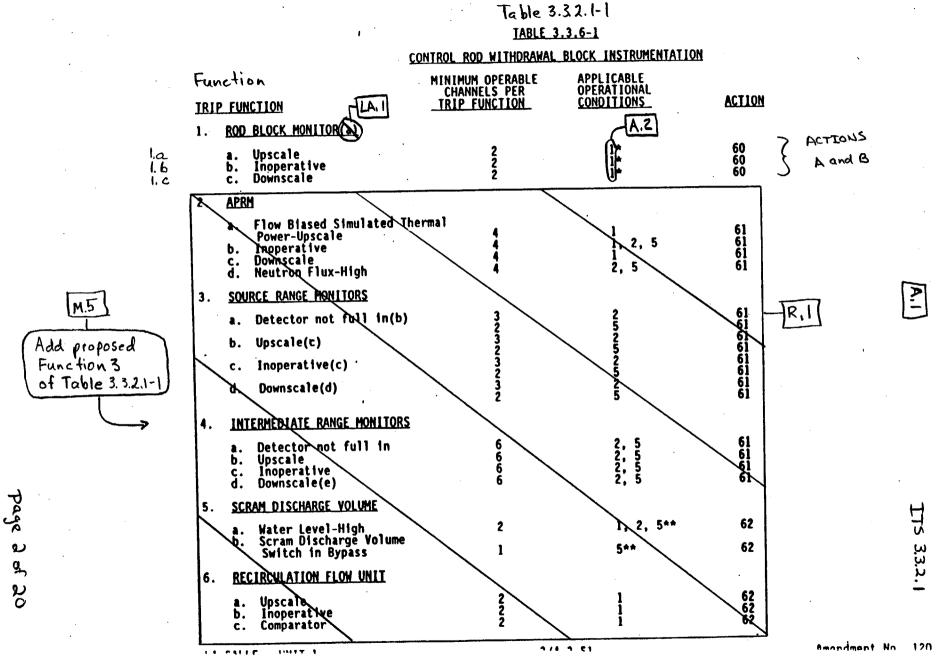
NOTE 2 to . Surveillankes

A channel may be placed in an inoperable status for up to 6 hours for required surveillance (5) 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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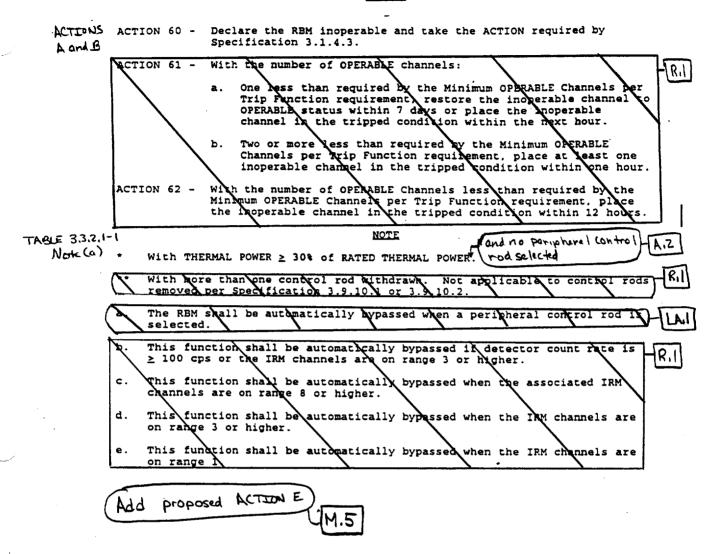
TAPLE 3.3.6-1 (Continued)

CONTROL ROD WITHDRAWAL BLOCK INSTRUMENTATION

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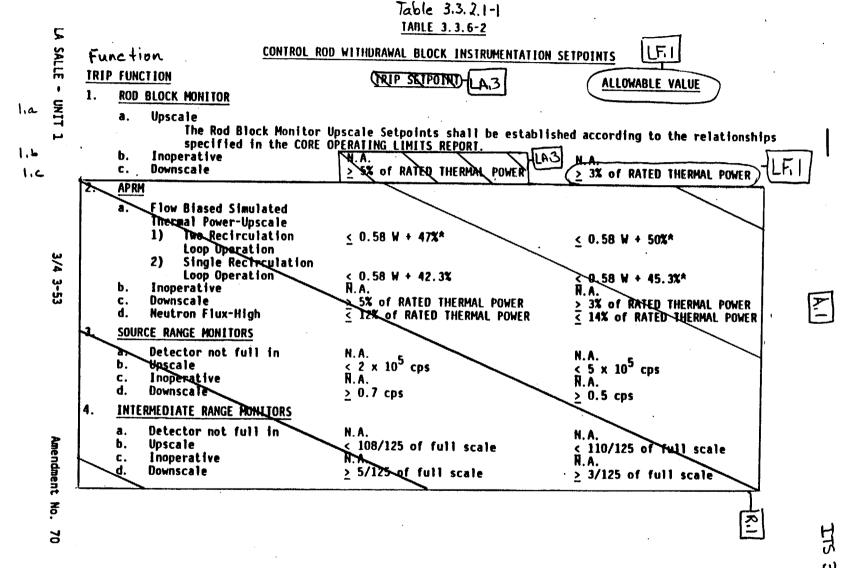
ACTION

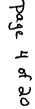


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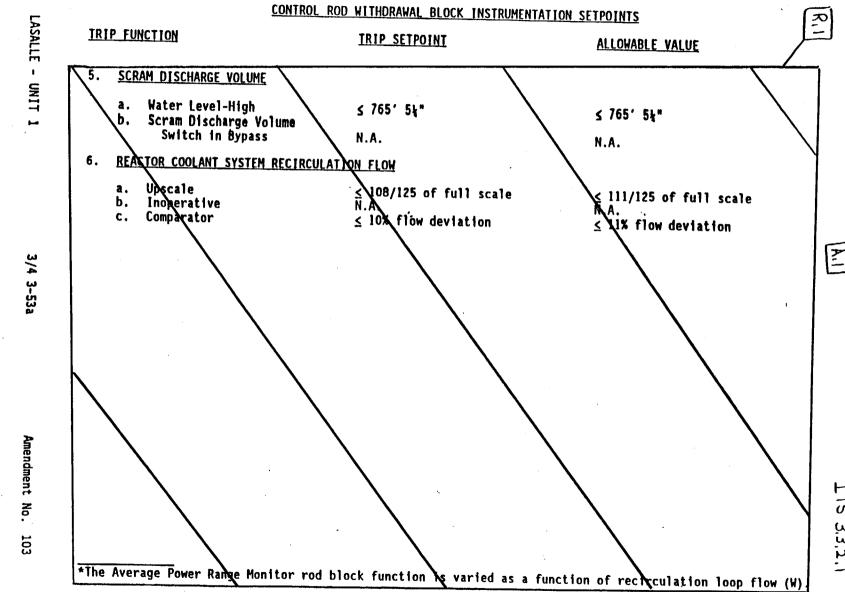


TABLE 3.3.6-2 (Continued)

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Table 3.3.2.1-1

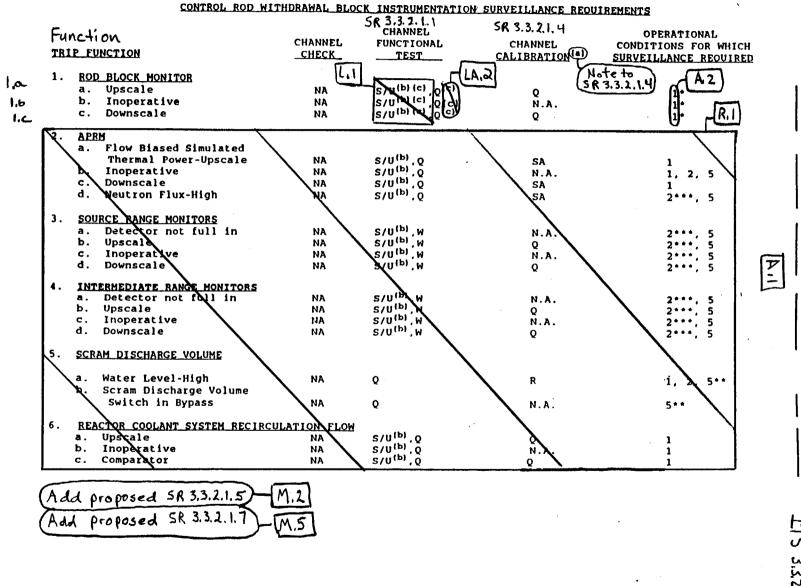


TABLE 4.3.6-1

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NOTES: NOTE TO for RBM Se 33.2.1.4 a. Neutron detectors may be excluded from CHANNEL CALIBRATION. 1 Within 14 hours prior to startup, if not performed within the previou days. R.1 for Includes reactor manual control Functions tiplexing ystem input. mu l 10.2 2-6 and no peripheral] AA.2 Table 3.3.2.1-1-(* With THERMAL POWER \geq 30% of RATED THERMAL POWER. control rod selected Note (a) With more than one control rod withdrawn. Not removed per Specification 3.9.10.1 or 9.9.10.2. Not applicable to control rods The provisions of Specification 4.0.4 are not applicable for a period of 24 hours after entering OPERTIONAL CONDITION 2 or 3 when shutting down from OPERATIONAL CONDITION 1. **R'I**

TABLE 4.3.6-1 (Continued)

CONTROL ROD WITHDRAWAL BLOCK INSTRUMENTATION SURVEILLANCE REQUIREMENTS

1 A I

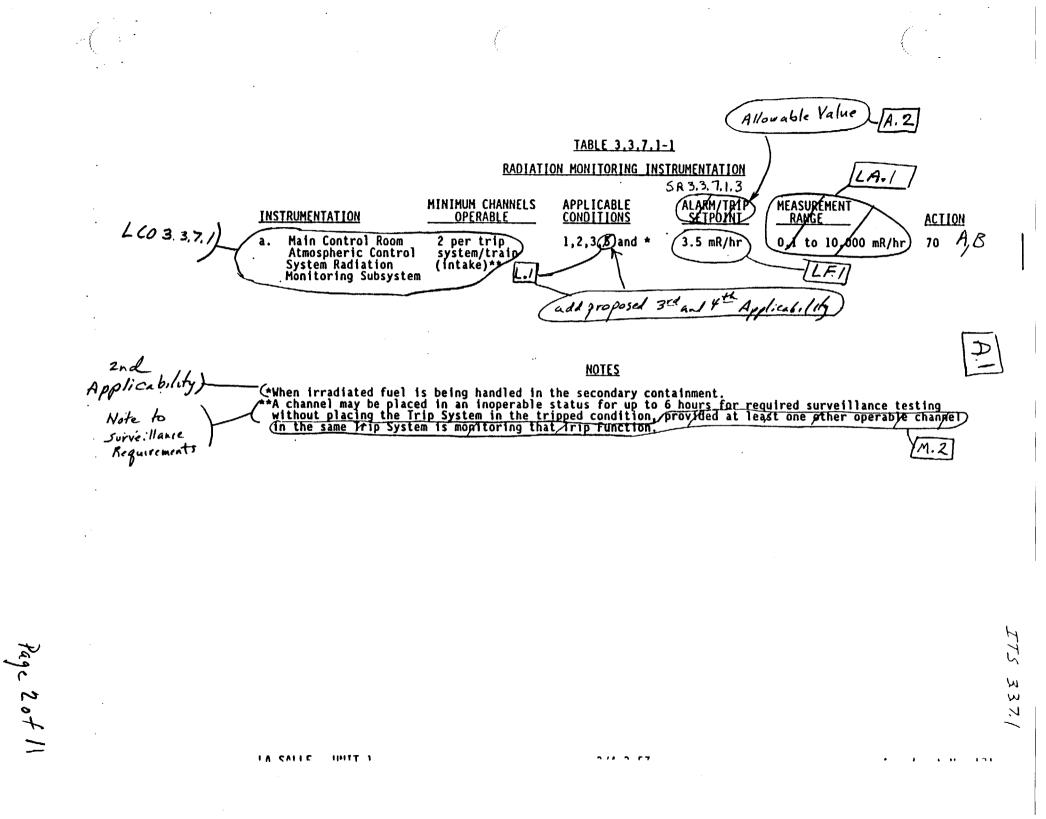
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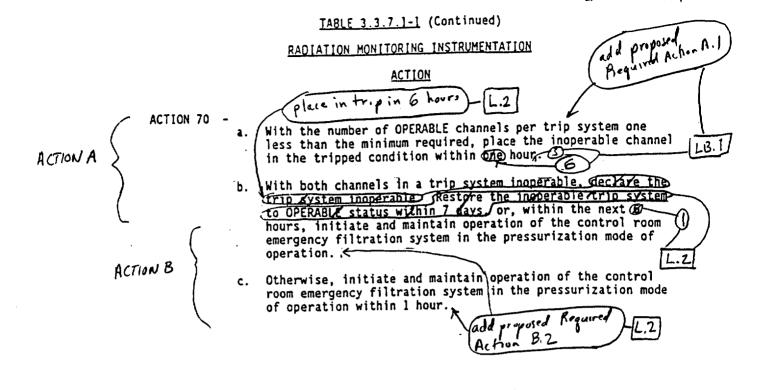
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	INSTRUME	NTATION				ITS 3.3.7,1
• •	3/4.3.7	MONITORING I	NSTRUMENTATIC	N Control	R	
\sim	RADIATIO	N MONITORING	INSTRUMENTATI	ION Area	in (CRAF)	AZ
	ITATTING	CONDITION FO		CRAE System		
	3.3.7.1		4	instrumentatio		nown in Table
L (0 3, 3.7.)	3.3.7.1-	1 shall be OP	ERABLE with	their alarm/tr	ip/setpoints	within the
	APPLICAE	<u>HLITY</u> : As sh	own in Table	3.3.7.1-1.		[A. 2]
	ACTION:		add prop	osed ACTION.	S NOTE)	A.3
ACTION A	a.	Setboinb exc	eeding the va	ng instrumentat Ilue shown in Ta mit witkin 4 ho	able 3.3.7.1-	1, adjust the
ACTION	А b.		more <u>radiatio</u> red by Table	n monitoring cl		erable, take the
	c.	The/provisio	ns/of Specifi	cation 3.0.3 a	re not applic	able A.Y
	SURVETII	ANCE REQUIREM	IFNTS	•	CRA	F System A.Z
/	,			ed radiation mo	nitoring inst	trumentation
à	channels CHECK, C	shall be dem HANNEL FUNCTI	ionstrated OPI ONAL TEST and	ERABLE by the p d CHANNEL CALIB	erformance of RATION operat	f the CHANNEL
	conditio	ons and at the	frequencies	shown in Table	4.3.7.1-1.	
	83.3.71.					,
•	233.7, hi 233,7,1			•		
		-				
*						•
-						
						A.5
	The nor	mal or emerge ION 4 or 5 or	ency power som when defuele	urce may be ino d.	perable in 01	PERATIONAL
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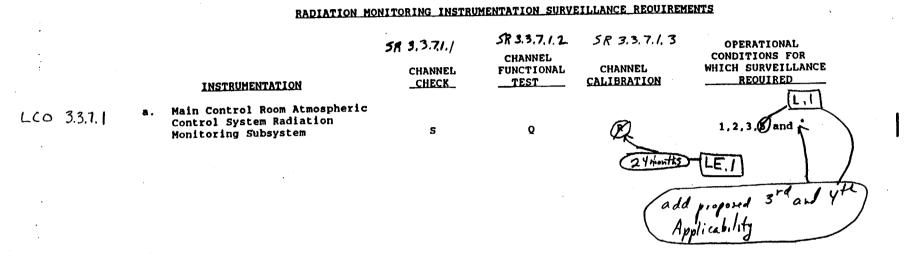


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TABLE 4.3.7.1-1



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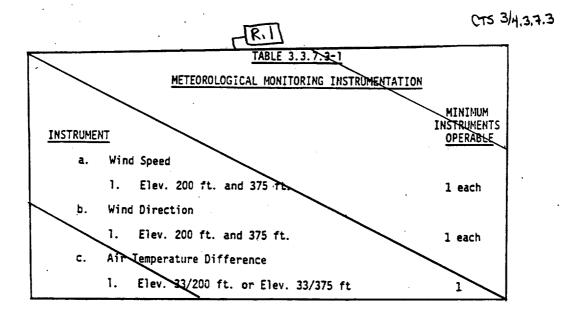
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2nd Applicability (. When irradiated fuel is being handled in the secondary containment.

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CTS 3/4.3.7.3 R.1 INSTRUMENTATION METEOROLOGICAL MONITORING INSTRUMENTATION -LINITING CONDITION FOR OPERATION 3 The meteorological monitoring instrumentation channels shown in Table 3-1 shall be OPERABLE. 3.3.7 3.3.7.3 APPLICABINITY: At all times. ACTION: With one or more meteorological monitoring instrumentation channels a. 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. The provisions of Specification 3.0.3 are not applicable. b. SURVEILLANCE REQUIREMENTS 4.3.7.3 Each of the above required meteorological monitoring instrumentation channels shall be demonstrated ORERABLE by the performance of the CHANNEL CHECK and CHANNEL CALIBRATION operations at the frequencies shown in Table 4.3.7.3-1. The Medeorological Monitoring Instrugentation System is shared between La Salle Unit 1 and La Salle Unit 2. The normal or emergency power source may be inoperable in OPERATIONAL CONDITION 4 or 5 or when defueled. Amendment No. 94 LA SALLE - UNIT 1 3/4 3-63 page 1 of 6



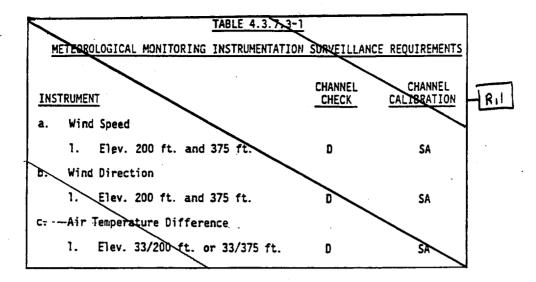
LA SALLE - UNIT 1

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LA SALLE - UNIT 1

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INSTRUMENTATION

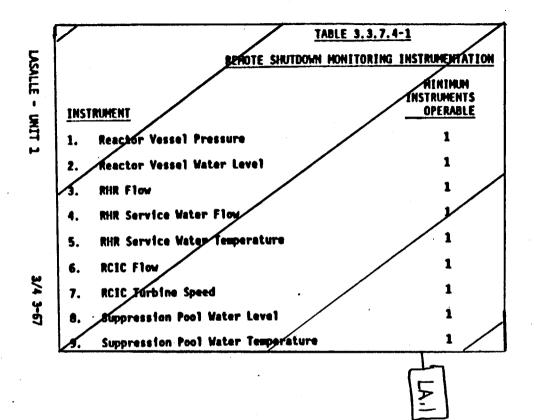
REMOTE SHUTDOWN MONITORING INSTRUMENTATION

LIMITING CONDITION FOR OPERA'ION

100 3,3.3.2 3.3.7.4 The remote shutdown monitoring instrumentation channels shown in A.I Table 3, 3.7.4 shall be OPERABLE with readouts displayed in the remote shutdown banel external to the control room. "PPLICABILITY: OPERATIONAL CONDITIONS 1 and 2. Add proposed ACTIONS Note 2 ACTION: 1 A.1 With the number of OPERABLE remote shutdown/monitoring instrumentation channels less than required by Table 3.3. 441, restore the inoperable (channel(s) to OPERABLE status within & days or be in at least HOT **a**. ACTION A ACTION B SHUTDOWN within the next 12 hours. 30 NOTE 1 The provisions of Specification 3.0.4 are not applicable. b. 13 + ACTIONS L.2 for each required instrumentation channel Add proposed Note to Surveillance Requirements that is normally energized SURVEILLANCE REQUIREMENTS 4.3.7.4 Each of the above required remote shutdown monitoring instrumentation SR 3.3.3.7.1 channels shall be demonstrated OPERABLE by performance of the CHANNEL CHECK + R 3.3.3.2,2 and CHANNEL CALIBRATION operations at the frequencies shown in Table 4.3.7.4-1

LA SALLE - UNIT 1

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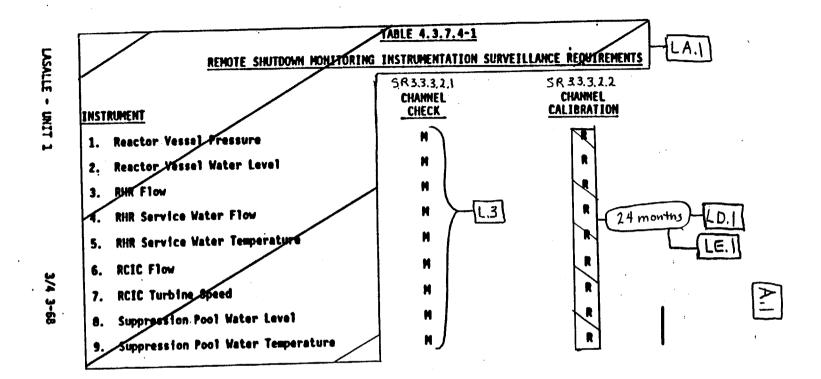


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	INSTRUMENTATION A.I	ITS 3.3.3.1
	ACCIDENT MONITORING INSTRUMENTATION	
, • <i>•</i>	LIMITING CONDITION FOR OPERATION	
LCO 3.3.3.1	3.3.7.5 The accident monitoring instrumentation channels shall be OPERABLE.	shown in Table 3.3.7.5-1
ACTIONS A-F	APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2. ACTION: Add Proposed ACTIONS Note D. A.Z. With one or more accident monitoring instrumentation of take the ACTION required by Table 20	Channels inoperable.
	take the ACTION required by Table 3.3.7.5-1. SURVEILLANCE REQUIREMENTS	
Note to Surveillance Requirements	4.3.7.5 Each of the above required accident monitoring ins channels shall be demonstrated OPERABLE by performance of t and CHANNEL CALIBRATION operations at the frequencies shown	
L -	Add proposed Note 2 to Surveillance Requirement.	s)-L.Z

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Amendment No. 19

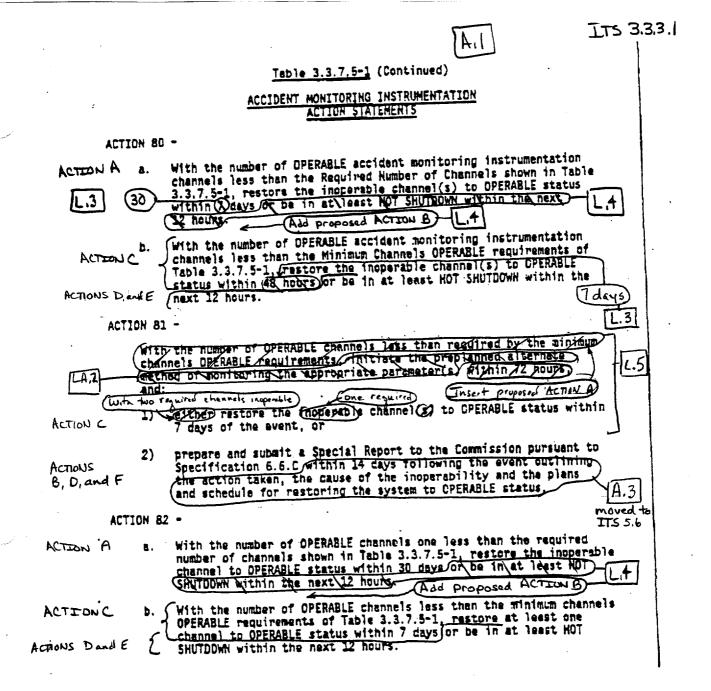
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Table 3.3.3.1-1 TABLE 3.3.7.5-1 A.5 LA SALLE ACCIDENT MONITORING INSTRUMENTATION **REQUIRED** -MINIMUÀ NUMBER OF CNANNELS FUNCTION I. **CHANNELS** OPERABLE. ACTION 80 A, B,C,E **Reactor Vessel Pressure** 2 1. a. Fuel Zone Reactor Vessel Water Level 80 A, B, C, E 1 2. M.3 Ζ. Wide Range 6 Suppression Chamber Water Level 80 A,8,5 C З, 3. [M.2]-Suppression Chamber Water Temperature (7 1/well) 80 A,B,C,€ 9. 1/we1) 4. 80 HR.1 2 Suppression Chamber Air Temperature 1A.5 80 A,B,C,E 2 a. Narrow Ronge M.4 ي¥ 4, Drywell Pressure 1 6. Wide Range 80 HR.I Drowell Air Temporature 2 1 3-70 A.5 80 A,B,C,E Drywell Oxygen Concentration 2 7. 8. 8. Drywell Hydrogen Concentration Analyzer® and Monitor 9. 82 A, B, C, E 2 81^{A, B, C, F} Primary Containment Gross Gamma Radiation 10. 2 · 5. R.1 11. 1/kalve Safety/Relief Valve Position Indicators 1/valve 80 Noble Gas Monitor, Main Stack 12. 81 1 1 Noble Gas Monitor, Standby Gas Treatment System Stack 81 13. 1 Amendment Add proposed Function 6 M.I P No. Actuated after LOC LA, Ы Ц У β ζ ζ ζ

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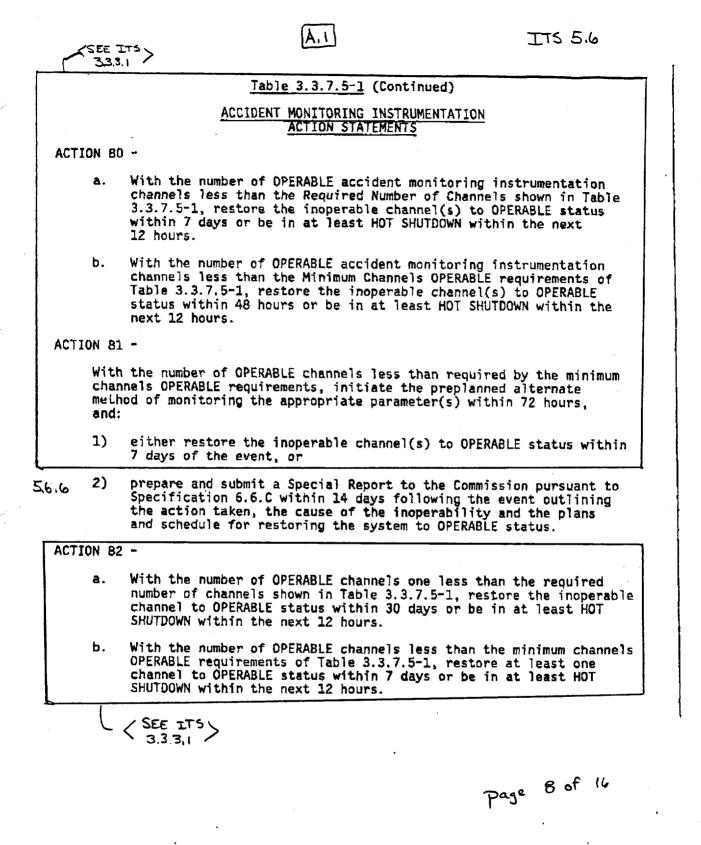
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LA SALLE - UNIT 1

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LA SALLE - UNIT 1

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Table 3.3.3.1-1 TABLE 4.3.7.5-1

FUNCTEON INSTRUMENT	ATION SURVEILLANCE HI SR 3.3.3.1.1 CHANNEL <u>CHECK</u>	COUTREMENTS SR 3.3.1.2, SR 3.3.3.1.3 CHANNEL <u>CALIBRATION</u>	
1. Reactor Vessel Pressure	н	3-1	
2. Reactor Vessel Water Level	н	3- 24 months	LEIHLO
3. Suppression Chamber Water Level	н	3-12	
4. Suppression Chamber Water Temperature	м	3-10	
Suppression Chamber Air Temperature	н	R RI	
6. Primary Containment Pressure	н	3- Q+ (24 months)-	-[15.1][[
7. Drywell Air Temperature	н	R R.I	
8. Drywell Oxygen Concentration	н	2~ Q-Q	7
9. Drywell Hydrogen Concentration Analyzer and Monit	or M	2-9	」 (₱
10. Primary Containment Gross Gamma Radiation	· H	3- R At months	Ē
11 Safety/Relier Valve Position Indicatora	н	R - R.1	
12. Noble Gas Honilor, Hain Stack	н 🔪		
13. Noble Gas Honitor Standby Gas Treatment System S	itack M	N	

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Add proposed Function 6 - Mil

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			ITS 3.3,	1.2
INST	RUMENTATION	A.1.) .	
SOUR	CE RANGE MONITORS			
LIMI	TING CONDITION FOR OPERATION			
Lco 3.3.1.2 53.3.	7.6 At least three source r	, MODES 3 and 4)-[1 ange monitor channels	Shall be OPERABLE.	
T-11-3312-1	ICABILITY: OPERATIONAL COND			ł
ACTIC	<u>DN</u> :	. Or mo	re-L.1	
ACTION A	A. In OPERATIONAL CONDITIOn range monitor channels monitor channels to OP HOT SHUIDOWN within the	inoperable, restore a ERABLE status within 4	above required source t least three source rang hours or be in at least	e (
ACTION C -	b. In OPERATIONAL CONDITIOn Source range monitor c	Action B ON 3 or 4 with (two)or hannels inoperable, ve	$\begin{bmatrix} L.6 \\ more of the above require rify all insertable contribution for a solution of the sol$	0]
	Shutdown position with	in 1 hour. (pla		1
SURVE	ILLANCE REQUIREMENTS			
	2.6 Each of the above requisitated OPERABLE by: Add a. Performance of a:			A.3
· .	1. CHANNEL CHECK at	least once per:		
SR 3.3.1	.2.1 a) 12 hours in	CONDITION 2*, and	- -	
SR 3.3.1. SR 3.3.1.2		CONDITION 3 or 4.		osed Note 2 .3.1.2.7
	b. A Performance of a CHANN			mination (M.I)
i	1. Within 24 hours p		ctor mode switch from	,
SR 3.3.1.2.	6 2. At least once per	31 days. Add pro	posed Note to SR 3.3.1.2.(0 L3
SR 3.3.124 Table 3,3,1.2-1 Note (a)	rate is at least 0.7 c	thdy awal of control ro ps# (with the detector M.2	ds) that the SRM count fully inserted (A.1)	I
Note 1 to - (##Ner	th IRM's on range 2 or below itron detectors may be exclu wided signal-to-noise ratio	ded from CHANNEL CALIE		1
•	ALLE - UNIT 1	3/4 3-72	Amendment No.]	8

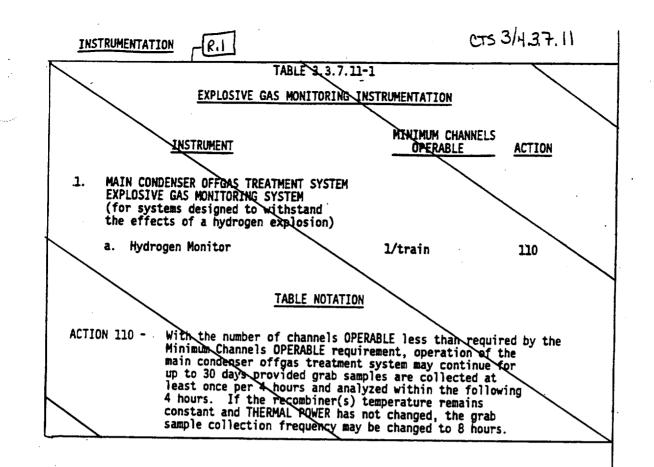
Page lot 6

CTS 3/4.3.7.11 INSTRUMENTATION EXPLOSIVE GAS MONITORING INSTRUMENTATION LIMITING CONDITION FOR OPERATION The explosive gas monitoring instrumentation channels shown in 3.3.7.11 Table 3.3.7.11 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: With an explosive gas monitoring instrumentation channel Alaxm/Trip a. 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. 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 Ь. to an OPERABLE status wihtin 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 DPERABLE status. с. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable. SURVEILLANCE REQUIREMENTS 4.3.7.11 Each explosive gas monitoring insorumentation 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.

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LASALLE UNIT-1

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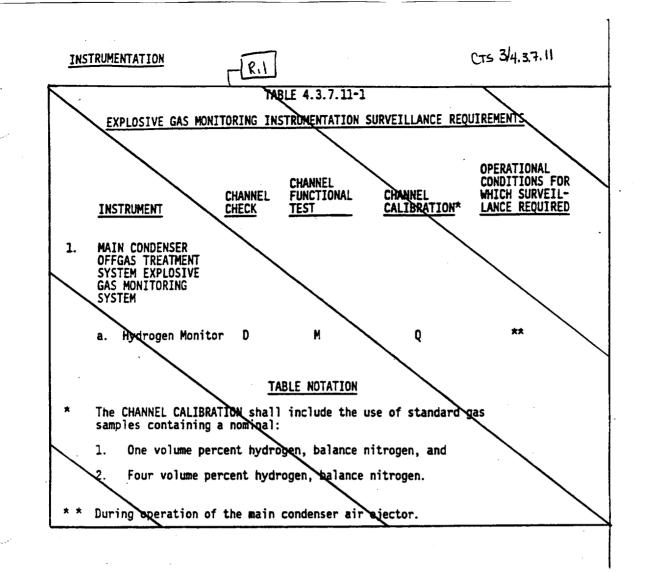


LASALLE UNIT-1

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LA SALLE - UNIT 1

3/4 3-84

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INSTRUMENTATION R.I	CTS 3/4.3.7.12
LOOSE-PART DETECTION SYSTEM	
LIMITING CONDITION FOR OPERATION	
3.3.7.12 The loose-part detection system shall be OPE	RABLE.
APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.	
ACTION:	
a. With one or more loose-part detection system chang than 30 days, prepare and submit a Special Report pursuant to Specification 6.6.C within the next 10 cause of the malfunction and the plans for restor OPERABLE status.	to the Commission D days outlining the
b. The provisions of Specification 3.0.3 are not app	licable.
SURVEILLANCE REQUIREMENTS	<u> </u>
4.3.7.12 Each channel of the loose-part detection sys demonstrated OPERABLE by performance of:	tem shall be
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 mont	hs.

LA SALLE - UNIT 1

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Amendment No. 94

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	INSTRUME	NTATION			A.1		•	ITS 3	3.3,Z,Z
			TER/MAIN T	URBINE TR	IP SYSTEM	ACTUATIO	N INSTR	UMENTATION	
,			ION FOR OP						
LC0 3,3,2,2	3.3.8 1 channels set cons 3.3.8-2,	the feeds shown istent	water/main in Table 3 fith the v	turbine .3.8-1 sh alues sho					
	APPLICAE		OPERAT, TON		TOND	11A1 D7	TIJER	225 8R	En-LIT
	ACTION:	ado	CTIONS N	ote A.				<u> </u>	
ACTION AON	a. dB	channel Allowal	trip set	point les column o hannel is	bine trip s conservat f Table 3.3 restored ent with t	1 ve tna 3.8-2, de to OPERA	n tne v eclare BLE sta	the channe tus/with/	l inoper-
	b.	With o	ne or more	channe]s	required l	by Table	3.3.8-	1 inoperab	le: [L.Z.]
ACTION T	3	1. Wi	thin 2 hou ipped to	urs, verii maintain	fy sufficie trip capab	nt chann ility, a	nd ret	add program	ILE or posed Regured Action Cil
ACTION	A	tr	ip system	in the t	r place the ripped* con E status.	inopera dition () (4	ible cha ir resta	annel(s) in pre the inc	the
ACTION	'C c.	Otherw	ise, be in	at least	STARTUB W	ithin 🔊	hours		M J
			OUTREMENTS	а — В ——————————————————————————————————	E 25%	RTP			[[.1]
5R3.3.2.2.1 +hrough 5R 3.3.2.2.3	4.3.8.1 channel CHECK, (Each f shall b HANNEL	eedwater/a	ain turb ated OPEN TEST and	ine trip sy RABLE by th CHANNEL C I-1.	e perfor	mance (ON oper	of the CHAN rations at	INEL
5R 3. 3. 2. 2.4	4.3.8.2	LOGIC	SYSTEM FUI	ICTIONAL T	TESTS and E	Invlated	autoria	atic/operat	
54 5.00	all chai	nnels sh	all be per	formed at	t least onc	e per (k		LD.	7
. 1				•					_ '
								I	LA.Z
							/		
•	An inor would	erable/	channel ne e Trip Fu	ed not be	e placed in occur.	the tri	pped co	ondition wi	ere this
	<u> </u>	- UNIT			3/4 3-86			Amendment	No. 119
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TABLE 3.3.8-1

FEEDWATER/MAIN TURBINE TRIP SYSTEM ACTUATION INSTRUMENTATION

TRIP FUNCTION

MINIMUM OPERABLE CHANNELS <u>PER TRIP SYSTEM</u>

4.

L(0 3.3.2.2 a. Reactor Vessel Water Level-High, Level 8

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(NOTE to Surveillance Reguirements

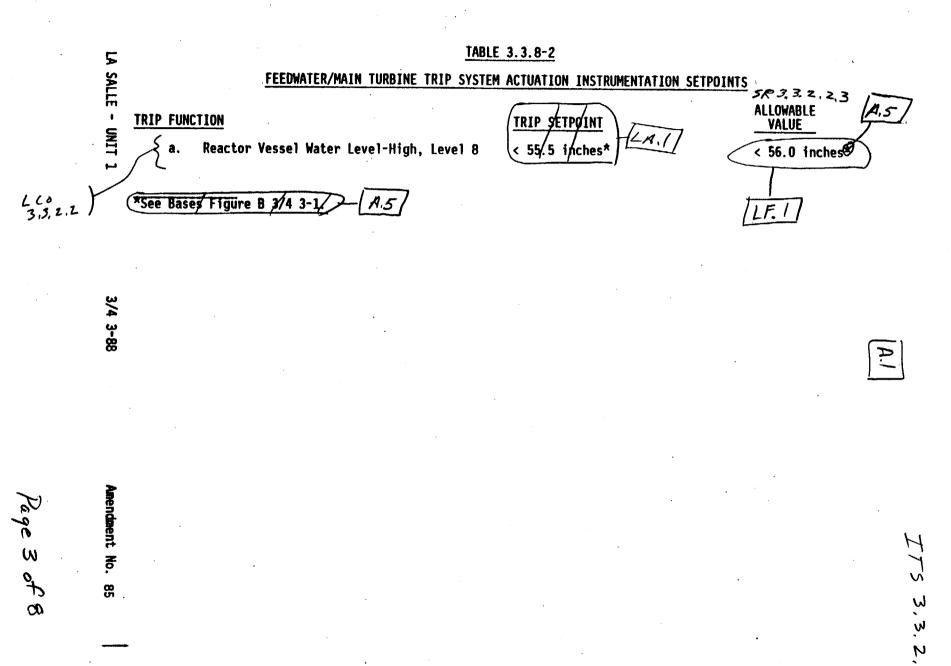
"A channel may be placed in an inoperable status for up to 6 hours for required surveillance testing without placing the Trip System in the tripped condition.

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TABLE	4.3.6	1.1-1

FEEDWATER/MAIN TURBINE TRIP SYSTEM ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

			SR3,3,2.2.1	SR 3,3 2.2, 2 CHANNEL	SR 3.3.2.	.2.3
TRIP FU	ICTION	· ·	CHANNEL CHECK	FUNCTIONAL TEST	CHANNEL CALIBRATION	LEN
603.3.2.2 a.	Reactor Vessel Water Level 8	Level-High	, S	Q	Bx-24	months

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ITS 3.4.1

	3/4.4 REACTOR	COOLANT SYSTEM A.I	
·	3/4.4.1 RECIRC	ULATION SYSTEM	
Same	RECIRCULATION L	00PS	A.2
	LIMITING CONDIT	ION FOR OPERATION	ليـــا
120 3.4.1	3.4.1.1 Two re operation.	actor coolant system recirculation loops shall be i	n .
	APPLICABILITY:	OPERATIONAL CONDITIONS 1 and 2	•
	ACTION	within Region II of	
LCD 3.4.1	a. With opera	only one (1) reactor coolantysystem recirculation 1 tion, comply with Specification 3.4.1.5 and:	oop in
ACTION G	1.	Within (four (4) hours: (Sanshy the requirements of the LC	e)
	(a) Place the recirculation flow control system in Manual mode or lower, and	the Master [4.1
(b) (Increase the MINIMUM CRITICAL POWER RATIO (MC) Limit by 0.01 per Specification 2.1.2, and	R) Safety A4
LCD 3.4.1	as specified in the COLR for Singk Loop Operation	c) Increase the MINIMUM CRITICAL POWER RATIO (MCI Condition for Operation (by 2.01) per Specificat and,	R) Limiting ion 3.2.3,
		d) Reduce the Average Power Range Monitor ((APRM) Rod Block and Rod Block Monitor (Trip Setpoint: Allowable Values to those applicable to single recirculation loop operation per Specification 3.3.6.	s) and e
		e) Reduce the AVERAGE PLANAR LINEAR HEAT GENERAT (APLHGR) Limiting Condition for Operation by 1 applicable Single Loop Operation:(SLO) factor the CORE OPERATING LIMITS REPORT.	the l
ACTION	H 2.	Otherwise, be in at least HOT SHUTDOWN within the (12) hours.	lext twelve
	(b. With	no reactor coolant recirculation loops in operation	1:
Artinal		Take the ACTION required by Specification 3.4.1.5/	and
	2.	no reactor coolant recirculation loops in operation Take the ACTION required by Specification 3.4.1.57 Be in at least HOT SHUTDOWN within the next six 16	hours.
			andmost No. 116

LA SALLE - UNIT 1

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												L	A.1]	IT	TS 3.4.2
R	EACTO	R COOL	ANT SYST	em V	(Add Act	propos	sed .	Lco 3	.4.2	, Appl	licabil	ity,a	ind _		A.Z
5	URVEI	LLANCE	REQUIRE	MENTS											
4 5	.4.1. hall	be dem	h reacto postrate	d OPERA	BLE at	least	once	pere			•		24)-		L.D.T
5R 3.4.2		i. Ve pr	rifying essure a	that th t the h	e conti ydrauli	rol val ic powe	ve fa er uni	nils " its, a	as is nd	" on 1	oss of	hydri	aulic		
5R 3.4.2	2.2 0	. 'Ve	rifying	that th	ie averi	nge rat	e of	contr	av fo	lve mo	vement	is:			
		1.	Less	than or	equal	to 11%	of a	stroke	per	second	l openi	ng, a	nd		
		2.	Less	than or	equal	to 11%	i of s	stroke	per	second	l closi	ng.			

LA SALLE - UNIT 1

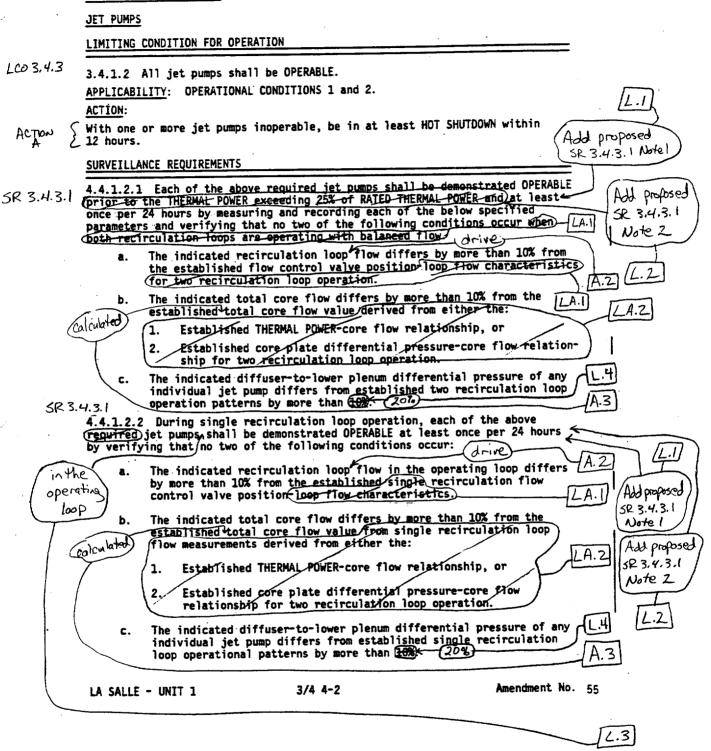
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IT5 3,4,3

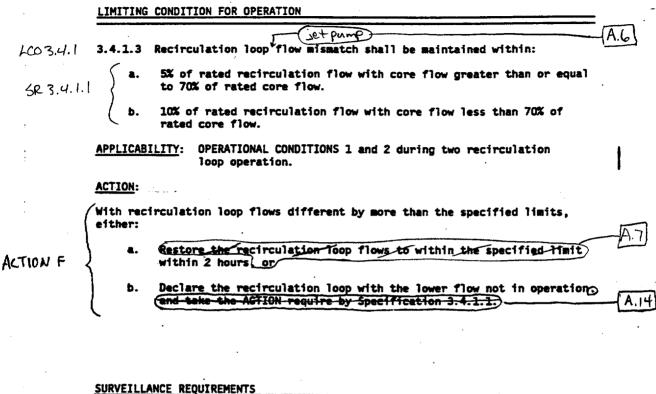
REACTOR COOLANT SYSTEM

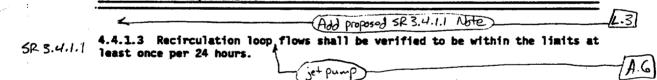


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REACTOR	C001 4	NT	SYSTEM
REALIUR			JIJIER

RECIRCULATION LOOP FLOW





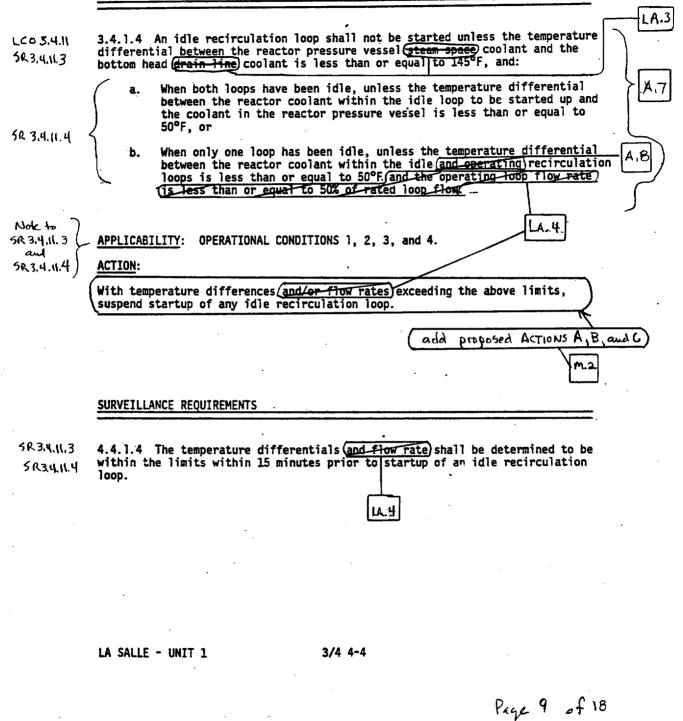
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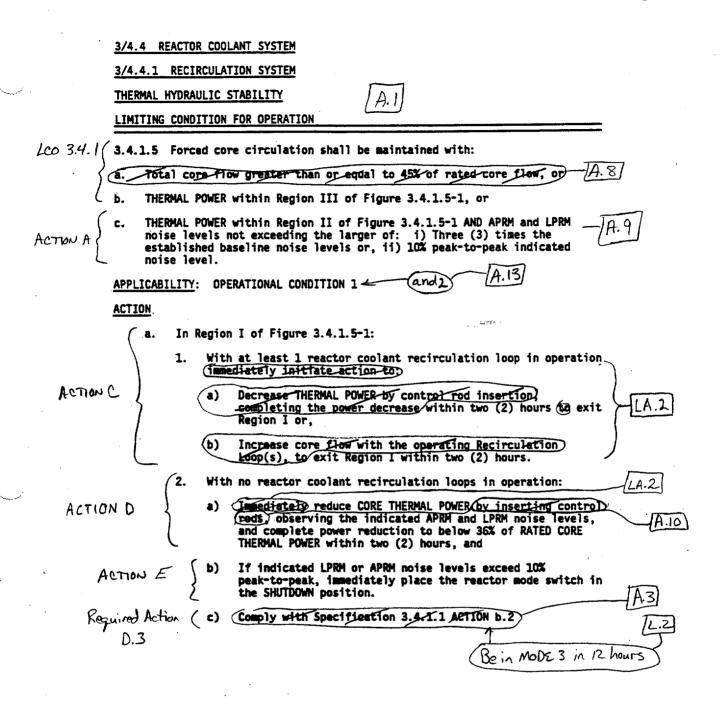
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IDLE RECIRCULATION LOOP STARTUP

LIMITING CONDITION FOR OPERATION



ITS 3.4.1

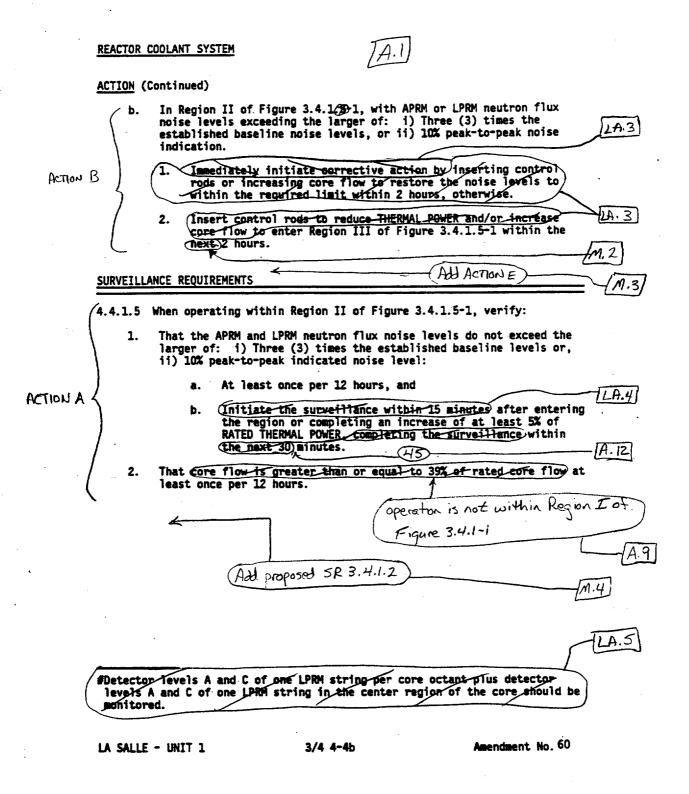


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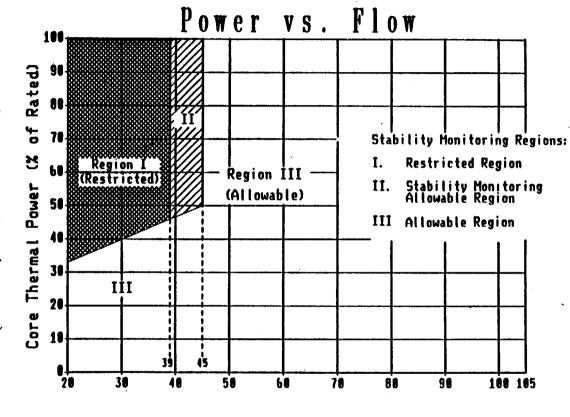
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Figure 3.4.1-1 (page lof 1) Power versus Flow

LA SALLE - UNIT 1



TOTAL CORE FLOW (% OF RATED)

Figure 3.4.1.5-1

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ITS 3.3.3.1

REACTOR COOLANT SYSTEM

A.1

LIMITING CONDITION FOR OPERATION

3/4.4.2 SAFETY/RELIEF VALVES

3.4.2 The safety valve function of 17 of the below listed 18 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 -(R.) OPERABLE position indication. safety/relief valves @1205 psig ±3% а. safety/relief valves @1195 psig ±3% 4 b. safety/relief valves @1185 psig ±3% 4 Ċ. safety/relief valves @1175 psig ±3% 4 d. 2 safety/relief valves @1150 psig ±3% ρ. APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. ACTION: With the safety valve function of one or more of the above required a. ' 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 b. 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 R.1 4.4.2.1 The safety/relief valve stem position indicators of each safety/relief valve shall be demonstrated OPERABLE by performance of a: CHANNEL CHECK at least once per 31 days, and a a. CHANNEL CALIBRATION at least once per 18 months.** b. 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 $\pm 1\%$. #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 R.1 surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the test. 3/4 4-5 Amendment No. 113 LA SALLE - UNIT 1 (See ITS 3.4.4)

3/4.4.2 SAFETY/RELIEF VALVES

LIMITING CONDITION FOR OPERATION

3.4.2 The safety valve function of 17 of the below listed 18 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. 4 safety/relief valves @1205 psig ±3% а. safety/relief valves @1195 psig ±3% b. 4 safety/relief valves @1185 psig ±3% с. 4 safety/relief valves @1175 psig ±3% **d**. 2 safety/relief valves @1150 psig ±3% e. APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. ACTION: With the safety valve function of one or more of the above required 2 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 b. 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: CHANNEL CHECK at least once per 31 days, and a CHANNEL CALIBRATION at least once per 18 months.** h 4.4.2.2 The low low set function shall be demonstrated not to interfere with .5 the OPERABILITY of the safety/relief valves) or the ADS by performance of a GHANNEL CALLBRATION 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. Amendment No. 113 3/4 4-5 LA SALLE - UNIT 1 (See ITS 3.4.4)

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REACTOR COOLANT SYSTEM 3/4.4.2 SAFETY/RELIEF VALVES S.A LIMITING CONDITION FOR OPERATION LC0 3.4.4 3.4.2 The safety valve function of 17 of the below listed 18 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 the L.1. (OPERABLE position indication.) 4 safety/relief valves @1205 psig ±3% Moved to а. 4 safety/relief valves @1195 psig ±3%
4 safety/relief valves @1185 psig ±3%
4 safety/relief valves @1175 psig ±3%
2 safety/relief valves @1150 psig ±3% b. 15 3.3.3.1 5R 3.4.4.1 c. d. e. A.2 APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. ACTION: With the safety valve function of one or more of the above required safety/relief valves inoperable, be in at least HOT SHUTDOWN within ACTION A 12 hours and in COLD SHUTDOWN within the next 24 hours. With one or more of the above required safety/relief valve stem b. position indicators inoperable, restore the inoperable stem position indicators to OPERABLE status within 7 days or be in at least HOT A.Z SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours. SURVEILLANCE REQUIREMENTS Moved to 4.4.2.1 The safety/relief valve stem position indicators of each ITS 3.3.3.1 safety/relief valve shall be demonstrated OPERABLE by performance of a: CHANNEL CHECK at least once per 31 days, and a A.21 а. CHANNEL CALIBRATION at least once per 18 months.** Ь. .2 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. A.3 (Moved to ITS 3.3.5.1) 1.A.I *The lift setting pressure shall correspond to ambient conditions of the values at nominal operating temperatures and pressures, Following testing, A.4 L.3 5R 3.4.4.1 - (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) Note to . SR 3.4.4.1 ** The provisions of Specification 4.0.4 are not applicable provided the A.2 surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the test. Amendment No. 113 3/4 4-5 LA SALLE - UNIT 1 Moved to ITS 3.3.3.1 /

ITS 3.4.4

	3/4.4.3 REACTOR COOLANT SYSTEM LEAKAGE LEAKAGE DETECTION SYSTEMS	
	LIMITING CONDITION FOR OPERATION	
LCO 3.4.7	3.4.3.1 The following reactor coolant system leakage detection systems shall be OPERABLE:	,
	a. (The primary containment atmosphere particulate radioactivity)L.(
	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 L.1 radioactivity monitoring system.	
	APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3.	
	ACTION: (add propord Nok to Actions A and D)	
ACTIONS A,B,C,and D ACTION E	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.	,1
	SURVEILLANCE REQUIREMENTS (Add proposed ACTION F) A.2	
	4.4.3.1 The reactor coolant system detection systems shall be demonstrated OPERABLE by:	
5R3.4.7. 5R3.4.7. 5R3.4.7.	CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL	
SR 3.4.7.1 SR 3,4.7	CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL	
SR 3.4.7. SR 3.4.7	2 C. Primary containment air coolers condensate flow rate monitoring	
(*The specified 18 month interval may be waived for Cycle 1 provided the surveyillance is performed during Refuel 1.	
(A.3	
	LA SALLE-UNIT 1 3/4 4-6 Amendment No. 24	

ITS 3.4.7

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IT5 3.	4	.5
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A3

moved to

400 3.4.6

1.2

A3

Moved to

LCO 3.4.6

A.)

the previous

A.1

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REACTOR COOLANT SYSTEM

OPERATIONAL LEAKAGE

LIMITING CONDITION FOR OPERATION

Reactor coolant system leakage shall be limited to: 3.4.3.2

No PRESSURE BOUNDARY LEAKAGE. а.

5 gpm UNIDENTIFIED LEAKAGE. Ь.

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

1 gpm leakage at a reactor coolant system pressure at 1000 \pm 50 psig ď. from any reactor coolant system pressure isolation valve specified in Table 3.4.3.2-1.

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

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3.

ACTION:

ACTION A

ACTION L

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

> With any reactor coolant system leakage greater than the limits in b 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.

With any reactor coolant system pressure isolation valve leakage с. greater than the above limit, 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 d. 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. ALTION & ALTION L

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

LA SALLE - UNIT 1

3/4 4-7

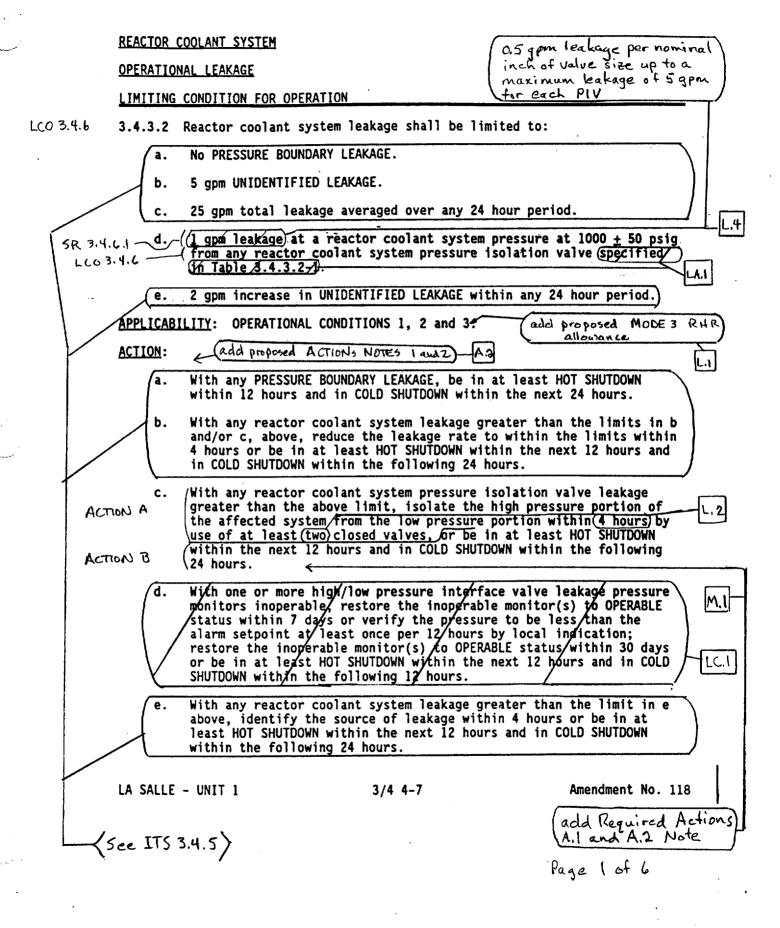
Amendment No. 118

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is not IGSCC susceptible material or reduce leakage to within limit

A.V

ITS 3.4.6



SURVEILLANCE REQUIREMENTS

5R 3.4.5,1	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	
	2. 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.	
	b. 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.	.3
	4. RHR shutdown cooling ≤ 190 psig.	
	5. RCIC ≤ 90 psig.	
	moved to LCO 3.4.6	•>
		,
	L.I	

*Technical Specification 4.0.2 does not apply.) LA SALLE - UNIT 1 3/4 4-8

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ITS 3,41

REACTOR COOLANT SYSTEM

SURVEILLANCE REQUIREMENTS

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) SR 3.4.6.1 [Table 3.4.3.2-1] shall be demonstrated OPERABLE: LAI

- Pursuant to Specification 4.0.5, except that in lieu of any leakage a. testing required by Specification 4.0.5, each valve shall be demonstrated OPERABLE by verifying leakage to be within its limit:
 - At least once per 18 months, and)-LA.2

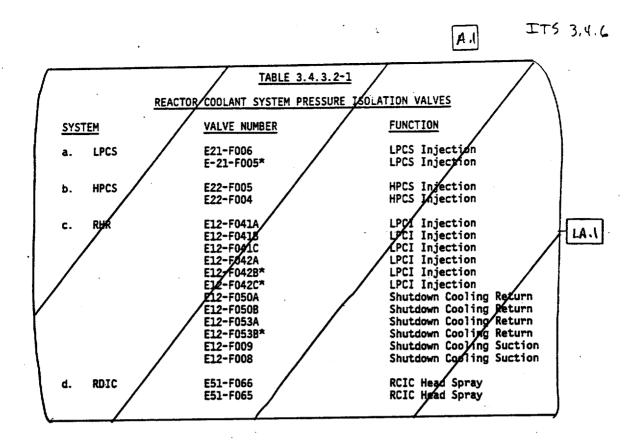
2. Prior to returning the valve to service following maintenance, repair or replacement work on the valve which could affect its leakage rate.

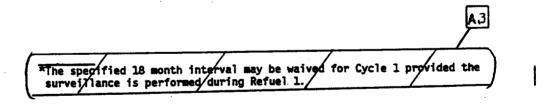
Ksee ITS 3.4.5*>*

NOTE to 5R 3.4.6.1 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 **b**. valve leakage pressure/monitors by performance of a: CHANNEL FUNCTIONAL TEST at least once per 31 days, and 2. CHANNEL CALIBRATION at least once per 18 months, ith the alarm setpoint for the: 1. HPCS syst/em ≤ 100 psig. LC.1 LPCS system ≤ 500 psig. 3. LPCX/shutdown cooling system ≤ 400 psig. RHR shutdown cooling \leq 190 psig. $RCIC \leq 90$ psig.

 $\langle \text{Sec ITS 3.4.5} \rangle$ Technical Specification 4.0.2 does not apply. LA SALLE - UNIT 1 3/4 4-8





LA SALLE-UNIT 1

3/4 4-9

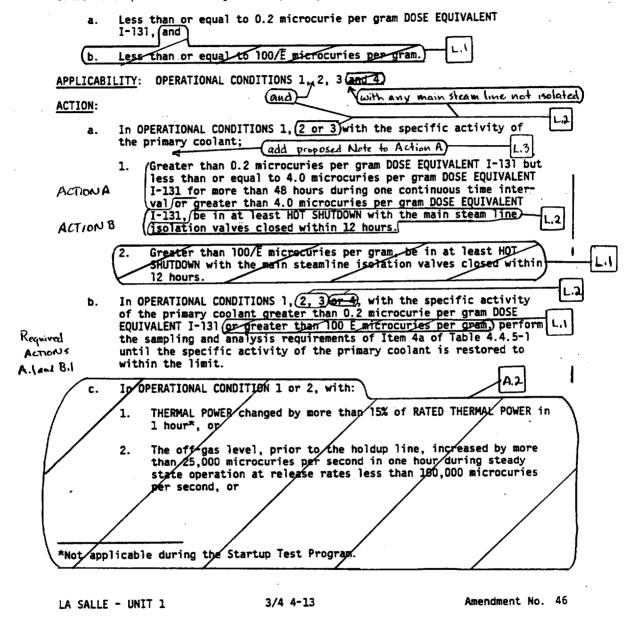
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3/4.4.5 SPECIFIC ACTIVITY

LIMITING CONDITION FOR OPERATION

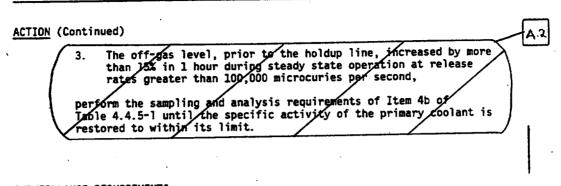
Lto 3.4.8 3.4.5 The specific activity of the primary coolant shall be limited to:



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ITS 3,4.8

LIMITING CONDITION FOR OPERATION (Continued)



SURVEILLANCE REQUIREMENTS

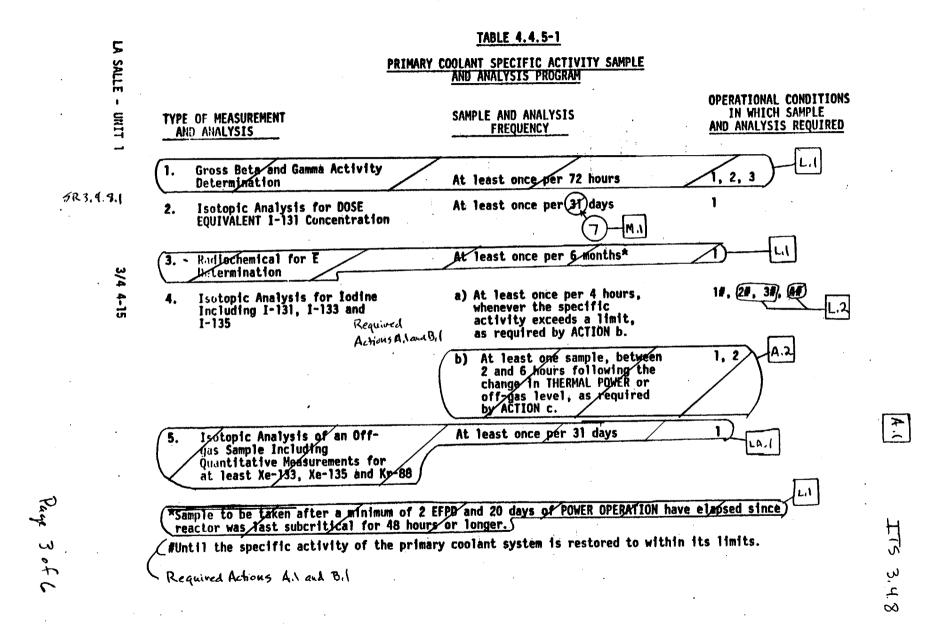
SR 3.4.8.1

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.

LA SALLE - UNIT 1

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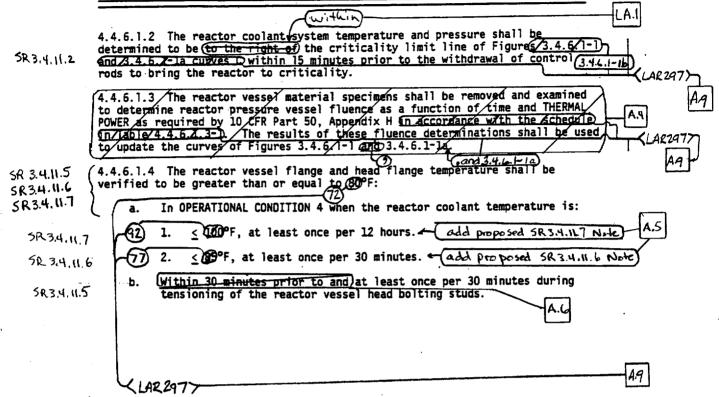
							ITS 3	9.11	
	REACTOR C	OOLANT SYSTEM			-	A.1			
	3/4.4.6	PRESSURE/TEMPE	RATURE LIMITS						
	REACTOR C	OOLANT SYSTEM							
	LIMITING	CONDITION FOR	DPERATION			.		A.1	
				· · · · · · · · · · · · · · · · · · ·			within	limits	
LCO 3.4.11. SR 3.4.11.1 SR 3.4.11.2	(1)/curve nuclear m TESTS; an	ance with the	limit lines st tatic or leak following a r for operation th: Figure 3.4.	temperature and town on Figures testing; (2) c nuclear shutdow is with a critic (2) c in any one hour	and low po cal core oth	nd 3.4.6 heatup by wer PHYS	(1-1a) y non- ICS		
6.244					• • •	• *	:	LARZA	<u>ح</u> ر د.
SR 3.4.11.1	б. с.	A maximum tem one hour perio	perature chang od during inse	in any one ho ge of less thar ervice hydrosta and cooldown	or equal to	testing	any		A.9
5R 3.4.11.5 5R 3.4.11.6 5R 3.4.11.1	;	The reactor ve or equal to B tension.	essel flange a PF when react	and head flange cor_vessel head	e temperature bolting stu	greater Ids are ui	than nder		
	APPLICABI	LITY: At all f	times.	-					
	ACTION:	add p	roposed Cond	itions A and	C Notes)	A.:		H.1	
ACTIONS	to within determine of the re- remains a	the limits (will the effects of actor coolant s cceptable for	thin 30 minute f the out-of- system;/determ continued oper	, restore the st perform an limit condition ine that the r ations or be i within the fol	engineering on the stru eactor coola n at least H	evaluation ctura) in int system OT SHUTD	ntegrity	add Require Actions A.2 Completion Times)
•	SURVEILLA	NCE REQUIREMENT	rs	•					
5R3.4.11.1	testing of be determ	perations, the ined to be with	reactor coola	down and inser int system temp required heatures 3.4.6.1-1/3 ainutes. (3.4.6.1)	perature and p and cooldo	pressure wn limit	shall s(and/to-)		
	nonnucle	ar means the av	verage coolant	ostatic or lead t temperature l creased to 212°	imit of Tabl	heatup by e 1.2 fo	r Cold		
	LA SALLE	- UNIT 1	3/4	4-16	LAPZ	anendment	No. 71		

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ITS 3.4.11

REACTOR COOLANT SYSTEM

SURVEILLANCE REQUIREMENTS (Continued)

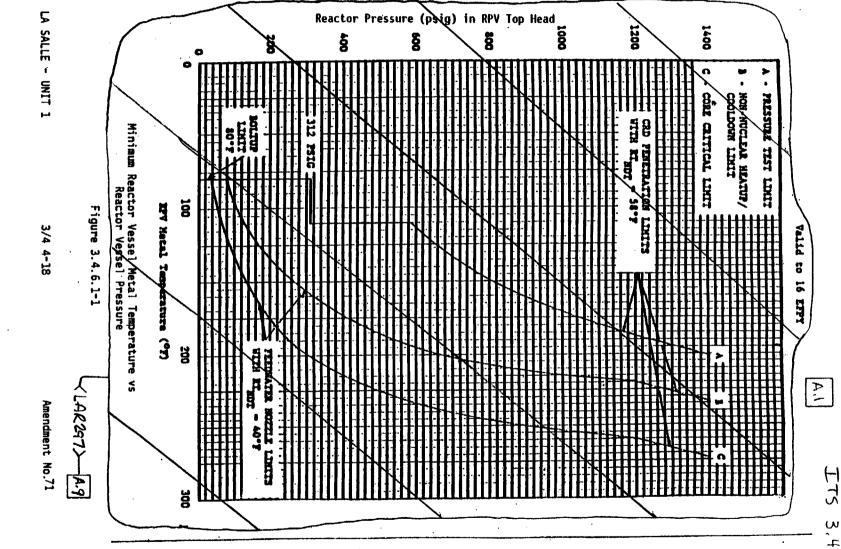


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LA SALLE - UNIT 1

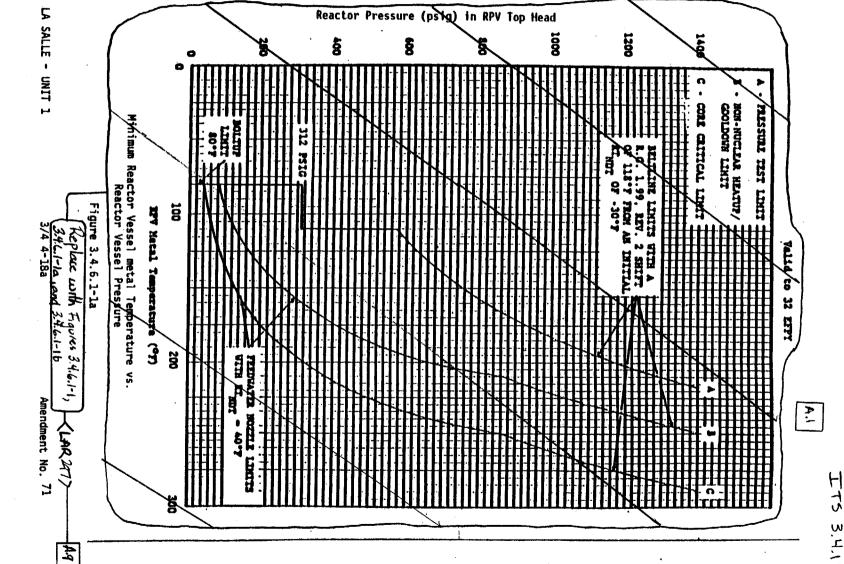
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3,4.11

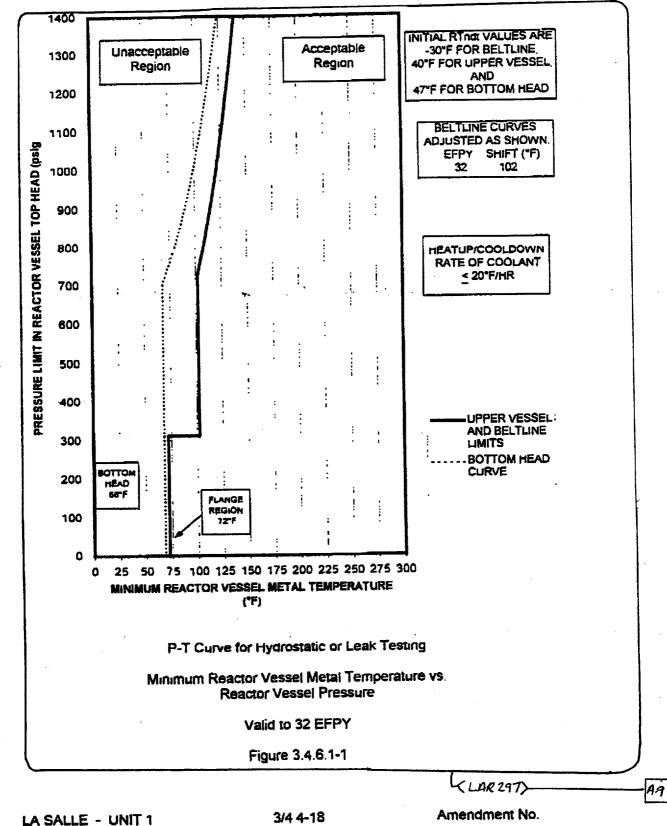


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3.4.11

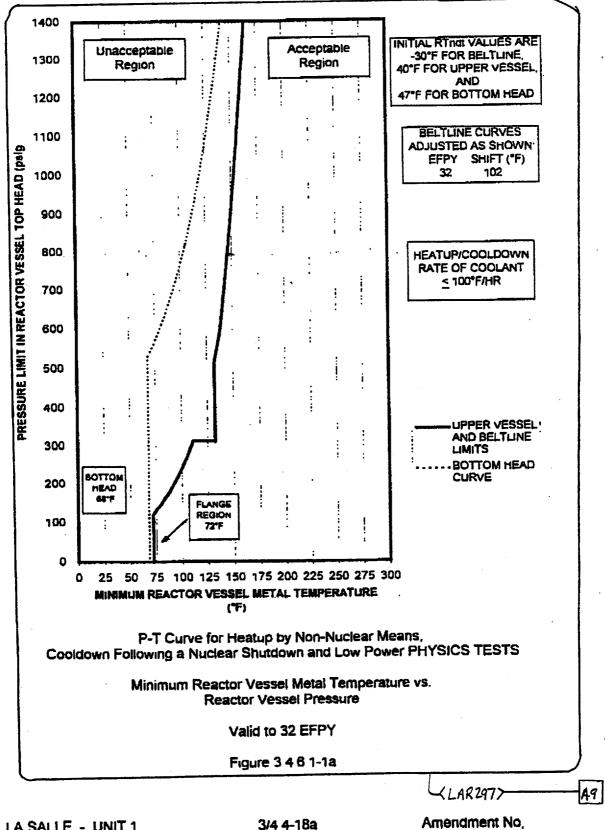
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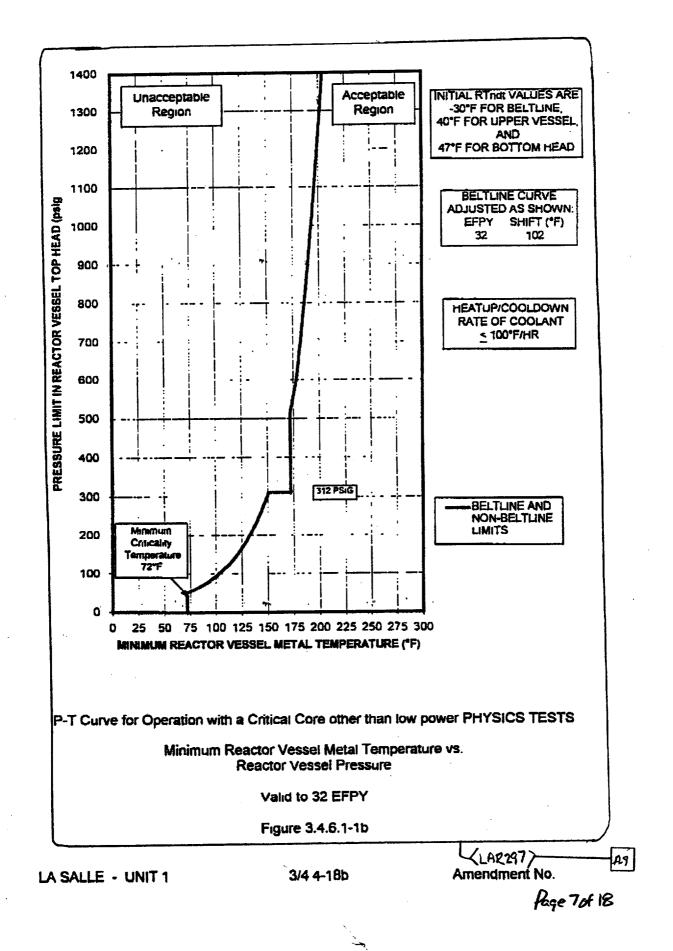
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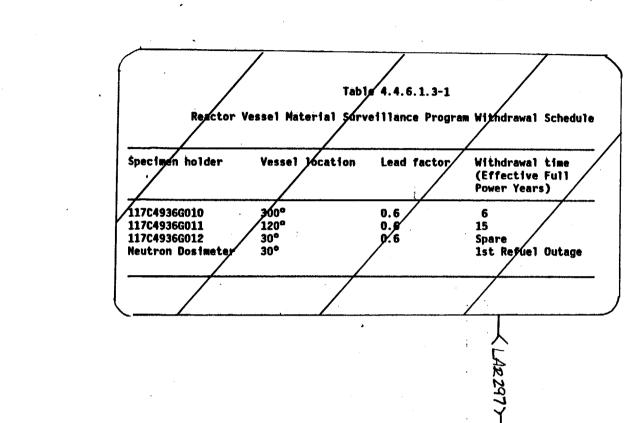


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LA SALLE -

UNIT 1

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A.1 ITS 3.4.12

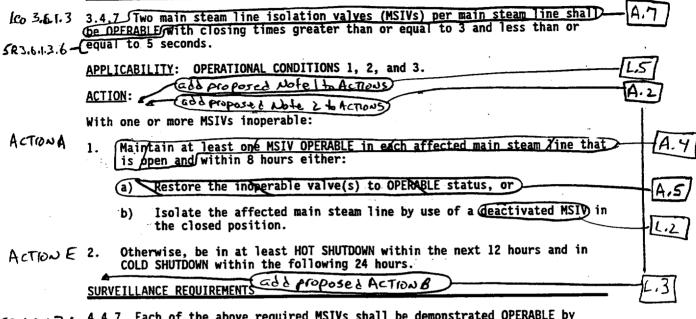
REACTO	R COOLANT SYS	STEM				
REACTO	R STEAM DOME	۰.				
LIMITI	NG CONDITION	FOR OPERATION	•			
3.4.12		······································	· ·			
3.4.6.	2 The press	sure in the rea	actor steam d	ome shall be	less than ₄ 1	.020 psig.
APPLIC	ABILITY: OPE	ERATIONAL CONDI	ITION 12 and a	215.	OF	equal to
ACTION						
		team dome press	sure exceeding	a 1020 psia.	reduce the	
pressu	<u>re to less th</u> WN within 12	team dome press han 1020 psig w	vithin 15 min	utes or be i	n at least H	IOT
B-(SHUIDO		L Hours.				
· ·						
		•				• •
				•		
CHOVET	LLANCE REQUIR)ENENTC				
JURVEI	LEANCE REQUIN	ALPIENTS	•			
4.4.6.	2 The reacto)20 psig at 1	or steam dome p least once per	pressure shal 12 hours.	l be verifie	d io be less	
4.4.6. than 1	2 The reacto 020 psig at 1 - equal to	or steam dome p least once per	pressure shal 12 hours.	l be verifie	d to be less	
4.4.6. than 1	020 psig at 1	or steam dome p least once per	pressure shal 12 hours.	l be verifie	d to be less	[
4.4.6. than 1	020 psig at 1	or steam dome p least once per	pressure shal 12 hours.	l be verifie	d io be less	
4.4.6. than 1	020 psig at 1	or steam dome p least once per	pressure shal 12 hours.	l be verifie	d io be less	
4.4.6. than 1	020 psig at 1	or steam dome p least once per	pressure shal 12 hours.	l be verifie	d to be less	[
than 1	020 psig at 1	or steam dome p least once per	pressure shal 12 hours.	l be verifie	d to be less	[
4.4.6. than 1	equal to	or steam dome p least once per	12 hours.		d to be less	
4.4.6. than 1	equal to	least once per	12 hours.		d to be less	
4.4.6. than 1	equal to	least once per	12 hours.		d to be less	[.
4.4.6. than 1	equal to	least once per	12 hours.		d to be less	[.
4.4.6. than 1	equal to	least once per	12 hours.		d to be less	
4.4.6. than 1	equal to	least once per	12 hours.		d to be less	[
4.4.6. than 1	oplicable dur	least once per	12 hours.		d to be less	[.
4.4.6. than 1	equal to	least once per	12 hours.		d to be less	
4.4.6. than 1	oplicable dur	least once per	12 hours.		d to be less	[.
4.4.6. than 1	oplicable dur	least once per	12 hours.		d to be less	

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ITS 3.6.1.3

3/4.4.7 MAIN STEAM LINE ISOLATION VALVES

LIMITING CONDITION FOR OPERATION



SR3.6.1.3.6

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.

LA SALLE - UNIT 1

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Current Specification 3/4.4.8

	REACTOR COOLANT SYSTEM	
(3/4.4.8 STRUCTURAL INTEGRITY	
f.	LIMITING CONDITION FOR OPERATION	<u> </u>
	3.4.8 The structural integrity of ASME Code Class 1, 2 and 3 compone be maintained in accordance with Specification 4.4.8	nts shall
	APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 4 and 5.	
	ACTION:	
	a. With the structural integrity of any ASME Code Class 1 comp not conforming to the above requirements, restore the struct integrity of the affected component(s) to within its limit isolate the affected component(s) prior to increasing the R Coolant System temperature more than 50°F above the minimum temperature required by NDT considerations.	eactor
	b. With the structural integrity of any ASME Code Class 2 com not conforming to the above requirements, restore the struct integrity of the affected component(s) to within its limit isolate the affected component(s) prior to increasing the F Coolant System temperature above 200°F.	or
	c. With the structural integrity of any ASME Code Class 7 composition of conforming to the above requirements, restore the structure integrity of the affected component(s) to within its limit isolate the affected component(s) from service.	ctural/
Į	SURVEILLANCE REQUIREMENTS 4.4.8 No additional Surveillance Requirements other than those requirements other than the	ired by

LA SALLE - UNIT 1

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	, ,		ITS 3.4.9
•	REACTOR COOLANT SYSTEM	AI	
	3/4.4.9 RESIDUAL HEAT REMOVAL		
	HOT SHUTDOWN	,unless at least one recircu pump is in operation,	hation - L. 1
	LIMITING CONDITION FOR OPERATION	(Junp 15 in Operation)	
LC0 3.4.9	3.4.9.1 Two# shutdown cooling mode loops or system shall be OPERABLE and at least one si in operation*(##) with each loop consisting (a. One OPERABLE RHR pump, and	hutdown cooling mode loop :	1 (RHR) sha11 be .
1	b. One OPERABLE RHR heat exchanger.)		
:	APPLICABILITY: OPERATIONAL CONDITION 3, with than the RHR cut-in permissive setpoint.	· · ·	less
	ACTION: (add proposed ACTIONS No (add proposed ACTIONS No	x 2 A.3	
	a. With less than the above required RHR immediately initiate corrective action OPERABLE status as soon as possible.	to return the required lo	ops to $A.9$
ACTION A	(24 hours thereafter) demonstrate the o method capable of decay heat removal f cooling mode loop. Be in at least COL	perability of at least one or each inoperable RHR shu	alternate tdown
	b. With no RHR shutdown cooling mode loop corrective action to return at least o	Vin operation, immediately	initiate L.L
Action B	possible. Within 1 hour establish rea alternate method and monitor reactor c least once per hour.	ctor coolant circulation b colant temperature and pre	yan 🥼
•	SURVEILLANCE REQUIREMENTS	ed 5R 3.4.9.1 Note	<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
F	4.4.9.1 At least one shutdown cooling mode system (or alternate method) shall be determi reactor sociant) at least once per 12 hours.	ned to be in operation (and	circulating (1.2
Required (Action B.2)		(or recirculation loc	20-L-1
LLO Notez	*One RHR shutdown cooling mode loop may be surveillance testing provided the other	oop is OPERABLE and in ope	ration.
LCO Note 1	*The shutdown cooling pump may be removed per 8 hour period provided the other loop	from operation for up to 2 is OPERABLE	hours L.3
	#WThe RHR shutdown cooling mode loop may be hydrostatic testing.		
(**Wheneyer two or more RHR subsystems are i SHUFDOWN as required by this ACTZON, main low as practical by use of alternate heat	tain/reactor coolant tempe	rature asA.5

LA SALLE - UNIT 1

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	REACTOR COOLANT SYSTEM
	<u>COLD SHUTDOWN</u> <u>LIMITING CONDITION FOR OPERATION</u> (unless at least one recirculation pump is in operation)
LCO 3.4.10	3.4.9.2 Two# shutdown cooling mode loops of the residual heat removal (RHR) system shall be OP <u>ERABLE* and at least one shutdown cooling mode loop shall be</u> 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 4	a. 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 1 operability of at least one alternate method capable of decay heat removal for each inoperable RHR shutdown cooling mode loop.
ATIONB	b. With no RHR shutdown cooling mode loop in operation, within 1 hour estab- lish reactor coolant circulation by an alternate method and monitor reactor coolant temperature and pressure at least once per hour.
	SURVEILLANCE REQUIREMENTS
SR 3.4.10 Required Adrian B.1	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 LA2 circulating reactor coolent at least once per 12 hours.
LCD Note 3	The RHR shutdown cooling mode loop may be inoperable for up to 2 hours for L.2 surveillance testing provided the other 100p is OPERABLE and in operation A.4
LCO Note 2	**The shutdown cooling pump may be removed from operation for up to 2 hours [1.2] per 8 hour period provided the other loop is OPERABLE.
Note I	hydrostatic testing.

LA SALLE - UNIT 1

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ITS 3.5.1

	• ····	ENCY CORE COOLING SYSTEMS S - OPERATING		Ael	
	LIMITING CON	DITION FOR OPERATION			
LCO 3.5.1	3.5.1 ECCS (fivisions 1, 2 and 3 shall	be OPERABLE with:		
	a. EC	S division I consisting o	f:		· .
	. L	The OPERABLE low pressu path capable of taking transferring the water vessel.	SUCCION from the sup	pression cheaper a	fet
	2.	The OPERABLE low pressu of the RHR system with the suppression chapter yesse).	a figw path/capable	of Laking SULLion/	Tros I
	3.	At least & OPERABLEM A	DS valves.		A.6
	b. ECC	S division 2 consisting of	!	-	I
	1	The OPERASLE low pressur "B" and "C" of the RHR (taking suction from the mater to the reactor/ver	re coolant injection system / each with a suppression chamber	Low path capable c	
	2.	At least & OPERABLE AL	S valves.		A.6
	supp	5 division 3 consisting of (15) system with a flow pair pression chamber and train pression chamber and train	in capable of taking	suction from the hrough the spray	[40]
Appl _5	"The ADS is n is less than "Set Specific	(150) (1	E when reactor steam	dose pressure	L.3

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EMERGENCY CORE COOLING SYSTEMS

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LIMITING CONDITION FOR OPERATION (Continued)

ACTION:
(a. / For ECCS division 1, provided that EECS divisions 2 and 3 are pPERABLE: A.3
1. (With the LPCS system inoperable, restore the inoperable LPCS system to OPERABLE status within 7 days.
2. With LPCI subsystem "A" inoperable, restore the inoperable LPCI subsystem "A" to OPERABLE status within 7 days.
3. (With the LPCS system inoperable and LPCI subsystem "A" inoperable, ACTION C restore at least the inoperable LPCI subsystem "A" or the inoperable LPCS system to OPERABLE status within 72 hours.
ACTION E <u>4.</u> Sotherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
b. For ECLS division 2, provided that ECCS divisions 1 and 3 are OPERABLE: A.3.
ACTION A 1 With either LPCI subsystem "B" or "C" inoperable, restore the inoperable LPCI subsystem "B" or "C" to OPERABLE status within 7 days.
2. (With both LPCI subsystems "B" and "C" inoperable, restore at least ACTION C ———————————————————————————————————
ACTION $\not\in$ <u>3.</u> (Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours A+4
c. For ECCS division 3, provided that 5CCS divisions/1 and 7 and the A.3 ACTION B 1. With ECCS division 3 inoperable, restore the inoperable division
LD UPERABLE STATUS WITHIN 14 days.
ACHONE 2. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
*Whenever two or more RMR subsystems are inoperable, if unable to attain COLD SMUTDOWN as required by this ACTION, Maintain reactor coolant temperature as A.4 low as practical by use of alternate heat removal methods.

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EMERGENCY CORE COOLING SYSTEMS ITS 3.5.1 A.1 LIMITING CONDITION FOR OPERATION (Continued) ACTION: (Continued) For ECCS/divisions 1 and 2, provided that ERCS division 3 is **A.**3 OPERABLE: / (With LPCI subsystem "A" and either LPCI subsystem "B" or "C" 1.)inoperable, restore at least the inoperable LPCI subsystem "A" or inoperable LPCI subsystem "B" or "C" to OPERABLE status ACTION C. within 72 bours. (With the LPCS system inoperable and either LPCI subsystems "B" 2. or "C" inoperable, restore at least the inoperable LPCS system or inoperable LPCI subsystem "B" or "C" to OPERABLE status ACTION C within 72 hours. Sotherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours $\overline{A_{14}}$ 3. ALTIONE. For ECCS divisions 1 and 2, provided that EECS division 3 is OPERABLE and divisions 1 and 2 are otherwise OPERABLE; A.3 Swith one of the above required ADS valves inoperable, restore 1. the inoperable ADS valve to OPERABLE status within 14 days or be ACTION F in at least HOT SHUTDOWN within the next 12 hours and reduce reactor steam dome pressure to ≤ 122 psig within the next 124 hours ACTION G -(24 hours. (150) 2. With two or more of the above required ADS valves inoperable, be in at least HOT SHUTDOWN within 12 hours and reduce reactor ACTIONG (steam dome pressure to $\leq (22)$ psig within the next 24 hours. (150) [] With an ECCS discharge line "keep filled" pressure afarm instrumentation channel inoperable, perform Surveillance Requirement 4.5, X.a.1 L.5 at least once per 24 bours. With an ECCS header delta / instrumentation channel/inoperable, g. restore the phoperable channel to OPERABLE status within 72 hours or L15 determine EPCS header delta P locally at least once per 12 hours; otherwise, declare the associated EPCS inoperable. With Surveillance/Requirement 4.5.1, d.2 not performed at the required h. interval due to low reactor steam pressure, the provisions of Specification 4.0.4 are not applicable provided the surveillance is M.2 performed within 12 hours after reactor steam pressure is adequate to perform the test. (ADD proposed ACTIONH A.3 AЧ Whenever two or more RHR subsystems are imoperable, 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. Amendment No. 118 3/4 5-3 LA SALLE - UNIT 1

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EMERGENCY CORE COOLING SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

/ <u>i.</u>	In the event an ECCS system is actuated and injects water into the /
	Reactor Coolant System, a Special/Report shall be prepared and
1	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
V_{-}	this Special Report whenever its value exceeds 0.70.

A.1

j. With one or more ECCS corner room watertight doors inoperable, 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.

ACTIOND ACTIONE

k.

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

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.2

LA.3

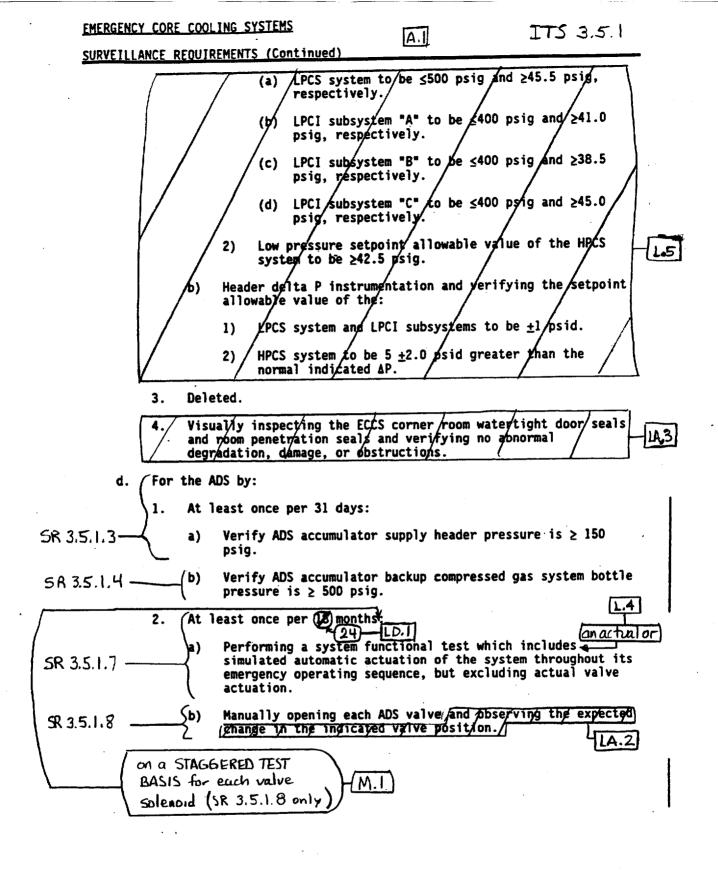
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ITS 3.5.1 A.I SURVEILLANCE REQUIREMENTS 4.5.1 ECCS divisions 1, 2, and 3 shall be demonstrated OPERABLE by: At least once per 31 days for the LPCS, LPCI, and HPCS systems: а. (Verifying by venting at/the high/point vents that the system 1. SR 35.1.1 piping from the pump discharge valve to the system isolation valve is filled with water. Performance of a CHANNEL FUNCTIONAL TEST of the: 2. Discharge/line "keep filled" pressure alarm L,5 instrumentation. and Header delta P instrumentation b) 3. (Verifying that each valve, manual, power operated, or automatic, SR 35.1.2. (in the flow path that is not locked, sealed, or otherwise /secured in position, is in its correct position. Verifying that each ECCS corner room watertight door is closed LA-3 except during entry to and exit from the room. Verifying that, when tested pursuant to Specification 4.0.5, each: b. LPCS pump develops a flow of at least 6350 gpm against a test 1. fine pressure greater than or equal to 290 psig. SR 3.5.1.5-2. LPCI pump develops a flow of at least 7200 gpm against a test line pressure greater than or equal to 130 psig. 3. HPCS pump develops a flow of at least 6250 gpm against a test line pressure greater than or equal to 370 psig. ILD. 24] (For the LPCS, LPCI and HPCS systems, at least once per 🚺 months: c. lan actua Performing a system functional test which includes simulated automatic actuation of the system throughout Ats emergency operating sequence and verifying that each automatic value in the flow path actuates to its correct position. Actual SR3.5.1.6 injection of coolant into the reactor vessel may be excluded from this test. Performing a CHANNEL CALIBRATION of the: 2. a) Discharge line /keep filled pressure glarm instrumentation and verifying the: High pressure setpoint allowable value and the low pressure setpoint allowable value of the: Ľ.S

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ITS 3.5.2 EMERGENCY CORE COOLING SYSTEMS A.1 3/4.5.2 ECCS - SHUTDOWN ECCS injection /spray subsystems LIMITING CONDITION FOR OPERATION LA. 3.5.2 At least two of the following shall be OPERABLE: The low pressure core spray (LPCS) system with/a flow path/capable of taking syction 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 h. chamber/upon being/manually realigned and transferring the water to the reactor vesse). Low pressure coolant injection (LPCI) subsystem "By of the RHB system C. with a flow path capable of taking suction from the suppression chamber upon being manually realigned and transferring the water to the reactor vessel. Yow pressure coolant injection (LPCI) subsystem "C" of the RHR system with a flow path capable of taking suction from the suppression chair-ber upon peing manually realigned and transferring the water to the d. 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 .4 ACTION: With one of the above required subsystems/systems inoperable, restore a. 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 vessel. (With both of the above required subsystems/systems inoperable, suspend CORE/AL/TERATIONS and all operations that have a potential b. ACTIONC for draining the reactor vessel. Restore at least one subsystem/ system to OPERABLE status within 4 hours or establish SECONDARY CONTAINMENT INTEGRITY within the next 8 hours. A.2 ACTION D A.3

APPL

L (*The ECCS is not required to be OPERABLE provided/that /the/reactor/wessel head/ A4 (15/ removed, 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

ITS 3,5.2

SURVEILLANCE REQUIREMENTS

SR 35.2.3 4.5.2.1 At least the above requir	ed ECCS shall be demonstrated OPERABLE per cept that the header delta P instrumentation
	[A.5]
SR3.5.2.6	

A.1

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3/4 5-7

AMENDMENT NO. 81

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EMERGENC	Y CORE	COOLING SY	STEMS	A.I	7		ITS 3.5.2
3/4.5.3	SUPPR	ESSION CHAM	BERD A.8		-	(Moved + (ITS 3.6.2.	2/5
LIMITING	CONDI	TION FOR OP	ERATION			(ITS 3.6.2.	2/
(3.5.3 T	he sup;	pression ch	amber shall	be OPERABL	E:	·····	-A.G
a .	In Ol at le	ERATIONAL ast 128,80	CONDITION 1 0 ft ³ , equi	, 2, or 3 w valent to a	ith a conta level of -	ined water 4 1/2 inche	volume of
b.	In Of least	ERATIONAL	CONDITION 4 ³ /equivale	or 5* with nt to/a lev	/a contaipe el of -12 1	ed water vol leet 7 inche	\$.\$\$
APPLICAB	<u>ILITY</u> :	OPERATION	AL CONDITIO	1, 2, 3,	-		LA.3 LA.2
ACTION:						Moved to ITS 3.6.2.2	
2.	water withi	level les	s than the a t within 1 i	bove limit	, restore t in at least	pression ch he water le HOT SHUTDO e following	vel to WN within
ACTIONC .	{level	less than tions that	the above 1 have a pote	imit, susp ential for a	end COREAL draining th	SSION CHARD AERALLONS a e reactor v	essel and
ACTION D-	-{100k	the reacto	r møde swite Inment inter	n 1n/the/5	hutdown pos	ition/ (Est	ablish
	L.a		Aoz			A.3	
				(ADD Prop	osed Requi	red Action	C.Z-L.3

APPL *The suppression chamber is not required to be OPERABLE provided that the AH reactor vessely head is /removed, the cavity is flogded on being flooded from the suppression pool, the spent fuel pool gates are removed when the (CRV)ty/is flooded and the water level is maintained within the limits of M+1 Specifications 3.9.8 and 3.9.9. **(Level is referenced to a plant elevation of 699 feet 11/ inches (See - IA.3)

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Amendment No. 55, 81

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ITS 3.6.2.2

A. 2

Moved to

1153.5.2

EMERGENCY CORE COOLING SYSTEMS

3/4.5.3 SUPPRESSION CHAMBER

LIMITING CONDITION FOR OPERATION

L(03.6.2.2

3.5.3 The suppression chamber shall be OPERABLE:

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

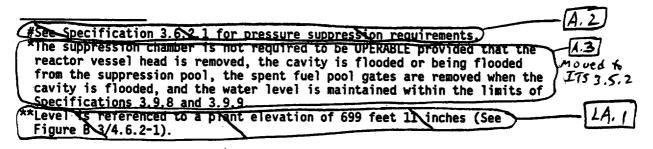
In OPERATIONAL CONDITION 4 or 5^* with a contained water volume of at least 70,000 ft³, equivalent to a level of -12 feet 7 inches.** b. A.3

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 ACTION A within the limit within a hour for be in at least HOT SHUTDOWN within ACTION & - the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

> 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. b. lock the reactor mode switch in the Shutdown position. Establish SECONDARY CONTAINMENT INTEGRITY within 8 hours.



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3/4 5-8

Amendment No. 59,81

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EMERGENCY CORE COOLING SYSTEMS

A.1

SURVEILLANCE REQUIREMENTS

4.5.3.1 The suppression chamber shall be determined OPERABLE by verifying: a. The water level to be greater than or equal to, as applicable: SR 3.5.2.1 SR 3.5.2.2 1. -4 1/2 inches at least once per 24 hours. $A.6 + (M_6) ved + 0$ 1. -4 1/2 inches at least once per 24 hours. $A.6 + (M_6) ved + 0$ 1. -4 1/2 inches at least once per 24 hours. $A.6 + (M_6) ved + 0$ 1. -4 1/2 inches at least once per 24 hours. $A.6 + (M_6) ved + 0$ 1. -4 1/2 inches at least once per 24 hours. $A.6 + (M_6) ved + 0$ 1. -4 1/2 inches at least once per 12 hours. $A.6 + (M_6) ved + 0$ 1. -4 1/2 inches at least once per 12 hours. A.7

*The suppression chamber is reactor vessel head is reactor vessel head is reactor the suppression pool, the is flooded, and the water <u>Specifications 3.9 8 and</u> **Level is referenced to a Figure B 3/4.6.2-1).	moved, the cavity is floor spent fuel pool gates are level is maintained with 3.9.9.	e removed when the cavity A.7
LA SALLE - UNIT 1	3/4 5-9	Amendment No. 118

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ITS 3.6.2.2

moved

ITS3.5.2

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS

4.5.3.1 The suppression chamber shall be determined OPERABLE by verifying:

A.I

 $SR3.6.2.2.1^{a}$. The water level to be greater than or equal to, as applicable: ______

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.

		A.3
*The suppression chamber i reactor vessel head is re the suppression pool, the is flooded, and the water Specifications 3,9,8 and	moved, the cavity is flow spent fuel pool gates an level is maintained with	oded or being flooded from $\int ITS 3.5.2$
**Level is referenced to a Figure B 3/4.6.2-1).	Diant elevation of 699 fe	eet N Inches (SeeLA.I
LA SALLE - UNIT 1	3/4 5-9	Amendment No. 118

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3/4.6	CONTAINMENT SYSTEM	<u>15</u>			
3/4.6.1	PRIMARY CONTAIN	IENT			
PRIMARY	CONTAINMENT INTEG	IRITY A.		IT5	3.6.1.1
LIMITING	CONDITION FOR OP	ERATION		······	
100 3.6.1.1 3.6.1.1	PRIMARY CONTAINM	ENT ANTEGRITY sh	all be maintai	péd)	
APPLICAB	BILITY: OPERATION	AL CONDITIONS 1,	2, Rand 3.	OPERABLE)	A.2
ACTION:			\		— A.3 ·
Аспон A (within 1 Аспон в (COLD SHU	hour/or be in at	least HOT SHUTD	OWN within the	CONTAINMENT (INTEGRITY) next 12 hours and in	
SURVEILL	ANCE REQUIREMENTS				<u> </u>
4.6.1.1	PRIMARY CONTAINME	NT (INTEGRATY) sha	all be demonstr	rated: OPERABLE	A.2.
â.	At least once pe penetrations no automatic isolat conditions are c automatic valves	er 31 days by ver ot capable of be ion valves and r losed by valves, secured in posi	rifying that a ing closed by required to be blind flanges tion, except f	Il primary containment OPERABLE containment closed during acciden s, or deactivated for valves that are by Specification)
b. SR3.6.1.1.1	tor primary cont through the isol	ainment air lock ation valves in	testing and m	ge rate testing except ain steam lines th and at the Leakage Rate Testing	:
~ 					
					1
See Spec	ial Test Exception	n 3.10.1.)			-A3
in the c each COL primary	D SHUTDOWN except	nment, and are 1 These penetratio such verificati ot been deinerte	ocked, sealed ns shall be ve on need not be	valves which are or otherwise secured rified closed during performed when the st verification or	A.4 movedto
LA SALLE -	UNIT 1	3/4 6-1		Amendment No. 110)

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JT5 3.6.1. 3

3/4.6 CONTAINMENT SYSTEMS

3/4.6.1 PRIMARY CONTAINMENT

PRIMARY CONTAINMENT INTEGRITY

LIMITING CONDITION FOR OPERATION

See ITS 3.6.1.1 PRIMARY CONTAINMENT INTEGRITY shall be maintained. 3.6.1. 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 LID COLD SHUTDOWN within the following 24 hours. addproposed Notes SURVEILLANCE REQUIREMENTS Land 2 to Required Actions A. Land C. 2 and Note 1 to SR3,643,2 4.6.1.1 PRIMARY CONTAINMENT INTEGRITY shall be demonstrated: ENE 583-6-13.3 Required Actions a. A. Zand C. Zand At least once per 31 days by verifying that all primary containment penetrations not capable of being closed by OPERABLE containment and not beked automatic isolation valves and required to be closed during accident conditions are closed by valves, blind flanges, or deactivated Sealed,or 5R3.6.1.3.2 \$83.6.1.3.23 Secured automatic valves secured in position, except for valves that are Required Act open under administrative control aspermitted by Specification LAT 3.6.3. or check values with flow secured NoteltoActions Perform required visual examinations and leakage rate testing except Note 2 to for primary containment air lock testing and main steam lines . ~2 \$R3.6.1.3.2, through the isolation valves, in accordance with and at the GNE Note 2 frequency specified by the Primary Containment Leakage Rate Testing Program. SR3.61.3.3 See ITS 3.6.1.1 > Not See Special Test Exception 3.10.1 -11 Except valves, blind flanges, and deactivated automatic valves which are Require & Action located inside the containment, and are (locked, sealed or ctherwise secured in the closed position. These penetrations shall be verified closed during each COLD SHUTDOWN except such verification need not be performed when the A.2 and SP3-6.1.3.3 primary containment has not been deinerted since the last verification or more often than once per 92 days. LA SALLE - UNIT 1 3/4 6-1 Amendment No. 110

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PRIMARY C	NT SYSTEMS ONTAINMENT LEAKAGE NCE REQUIREMENTS (Continued)	IT53.6.1.1
c. ø.	By verifying each primary containment air lock OPERA Specification 3.6.1.3. By verifying the suppression chamber OPERABLE per Sp 3.6.2.1	-A.S
е. <i>SR3.6.1.1</i> .2	Verify primary containment structural integrity in a the Inservice Inspection Program for Post Tensioning frequency shall be in accordance with the Inservice Program for Post Tensioning Tendons.	Tendons. The

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	CONTAINMENT_SYSTEMS		ETS 3.6.1.2
	PRIMARY CONTAINMENT AIR LOCKS		
	LIMITING CONDITION FOR OPERATION		
LC0 3.6.1.2	3.6.1.3 Each primary containment air loci	shall be OPERABLE.]
	APPLICABILITY: OPERATIONAL CONDITIONS 1,		A.2
	ACTION: ACTIONS Note		Action & Note 2 A.3
(a. With one primary containment air lock	door inoperable:	es Action A A.4
ACTIONA	1. Mathtain at least the OPERABLE a verify restore the inoperable ar lock 24 hours or lock the OPERABLE at	ir lock door closed and	(either (Required Action)
	2. Operation may then continue unti overall air lock leakage test pr door is verified to be locked cl	ovided)that the OPERABL osed_at_least_once_per_	E air locka AL <u>31 davs.</u>
Action	D 3. Otherwise, be in at least HOT SH in COLD SHUTDOWN within the foll	(<u>Ald propose (Mode to Required</u> UTDOWN within the next owing 24 hours.	12 hours and L.4
~	(4. The provisions of Specification	3.0.4 are not applicati	
Action	D. (with the primary containment air lock an inoperable air lock door (maintain)	<u>inoperable, except as</u> at least one air lock ERABLE status within 24	door closed: Verify
	add proposed Required Action C.1		
/			
	add proposed Actrow B		[1,5]
	· .		
G			
Ċ	See Special Test Exception 3.10.1.		A.Z
I	A SALLE - UNIT 1 3/4 6-5	Amer .	ndment No. 110
		Pa	age 1 of 4

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<u>CONTAIN</u>	MENT SYSTEMS	ITS 3.6.1.2
SURVEIL	ANCE REQUIREMENTS	
	Each primary containment air lock shal	<pre>11 be demonstrated OPERABLE:</pre>
a. 583.61.2.1	By performing required primary contai in accordance with and at the frequen Containment Leakage Rate Testing Prog	inment air lock leakage testing icy specified by the Primary gram, .
523.4.1.2.2	At least once per months by verify air lock can be opened at a time.	ng that only one door in each

add proposed Note 1 to SR 3.6.1.2.1

TU 24 11 1	SUBLIFICATION	4. n i i n	ainst acceptance			
E	only required when the prim	to be performed ary containment	upon entry into is definerted.	primary	containment	air lock

LA SALLE - UNIT 1

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A.3



DRYWELL AND SUPPRESSION CHAMBER INTERNAL PRESSURE

LIMITING CONDITION FOR OPERATION

LC03.6.1.4

3.6.1.6 Drywell and suppression chamber internal pressure shall be maintained between - 0.5 and (+2/0) psig. +0.75

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 ACTIONA 1 Action B _ SHUTDOWN within the following 24 hours.

SURVEILLANCE REQUIREMENTS

SR3.6.1.4.1 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.

LA SALLE - UNIT 1

3/4 6-13

Page lofz

DRYWELL AVERAGE AIR TEMPERATURE

LIMITING CONDITION FOR OPERATION

LCO 3.6.1.5

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

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

AcTion A Swith 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 6 within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

SURVEILLANCE REQUIREMENTS

\$23,6,15,1

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:

Elevation Azimuth A -1 740' ው 248° 740'0" b.

LA SALLE - UNIT 1

3/4 6-14

A.7

1.1

-12

M . 3

CONTAINMENT SYSTEMS

DRYWELL AND SUPPRESSION CHAMBER PURGE SYSTEM

LIMITING CONDITION FOR OPERATION

LC0 3, b, [,3] 3.6.1.8 The drywell and suppression chamber purge system may be in operation with the drywell or suppression chamber purge supply and exhaust butterfly isolation valves open for inerting, de inerting 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

ACTION:

A CTIONS (With any drywell or suppression chamber purge supply or exhaust butterfly isolation value open A as C (for other than inerting, de-inerting or pressure control, close the butterfly value(s) within one hour or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the A CTION E (following 24 hours.

(add proposed ACTIONS Note 1

add proposed ACTIONS Note 2

SURVEILLANCE REQUIREMENTS

4.6.1.8.1 The cumulative time that the drywell and suppression charaber 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.

Cadd proposed SR 3.6.1.3.1

LA SALLE - UNIT 1

3/4 6-15

Paye Sof10

	A.I ITS 3. CONDITION FOR OPERATION
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^{**} 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.
6	
/ D.	Drywell-to-suppression charmer bypass leakage less than or equal to 10% of the acceptable A/\sqrt{k} design value of 0.03 ft ² .
APPLICABI	Drywell-to-suppression charmer bypass leakage less than or equal to 10% of the acceptable A/\sqrt{k} design value of 0.03 ft ² .
APPLICABI	Drywell-to-suppression charmer bypass leakage less than or equal to 10% of the acceptable A/\sqrt{k} design value of 0.03 ft ² .
APPLICABI	Drywell-to-suppression charmer bypass leakage less than or equal to 10% of the acceptable A/\sqrt{k} design value of 0.03 ft ² . <u>ILITY:</u> OPERATIONAL CONDITIONS 1, 2, and 3. 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
APPLICABI	Drywell-to-suppression charmer bypass leakage less than or equal to 10% of the acceptable A/√k design value of 0.03 ft ² . <u>CLITY:</u> OPERATIONAL CONDITIONS 1, 2, and 3. 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 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

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

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3/4 6-16 Amendment No. 67 <See IT53.6.2.1and IT53.6.2.2

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ITS 3.6.2.1

CONTAINMENT SYSTEMS 3/4.6.2 DEPRESSURIZATION SYSTEMS
SUPPRESSION CHAMBER
LIMITING CONDITION FOR OPERATION
2Co 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** and -4 1/2 inches**, and a
LCO 3.6.2.1. c^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: $(A \cdot Z)$
ACO 3.6.2.1.6 a) 110°F with THERMAL POWER Tess than or equal to 1% of
Condition D b) 120°F with the main steam line isolation values closed M.I.
b. Drywell-to-suppression charmer bypass leakage less than or equal to $A.3$ 10% of the acceptable A/ \sqrt{k} design value of 0.03 ft ² .
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 COLD 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:
1. 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 L.1 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 hourse and be in MODE 4 in 36 hours M.2
<pre>#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).</pre>
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ITS 3.6.2.2

CONTAINMENT SYSTEMS
3/4.6.2 DEPRESSURIZATION SYSTEMS
SUPPRESSION CHAMBER
LIMITING CONDITION FOR OPERATION
16 3.6.2.2 The suppression chamber shall be OPERABLE with:
a. The pool water:
1. Volume between 131,900 ft ³ and 128,800 ft ³ , equivalent to a $(A.1)$ level between +3 inchest and -4 1/2 inchest, and a
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.
b. Drywell-to-suppression charmer bypass leakage less than or equal to 10% of the acceptable A/ \sqrt{k} design value of 0.03 ft ² .
APPLICABILITY: OPERATIONAL CONDITIONS 1 2 and 2
ACTION:
a. With the suppression chamber water level outside the above limits, L.I AcTion A at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN AcTion B within the following 24 hours.
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:
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.
(#SPD Spacification 2 F a
#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
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ITS 3.6.1.1

Within one hour, or be in Mode 3 in 12 hours, and

LIMITING CONDITION FOR OPERATION (Continued)

A.1

- ACTION: (Continued)
 - c. Deleted.
 - d. Deleted.

e.

- 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 L. (increasing reactor coolant temperature above 200°F.

SURVEILLANCE REQUIREMENTS

The suppression chamber shall be demonstrated OPERABLE:	
By verifying the suppression chamber water volume to be within the limits at least once per 24 hours.	
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. 	K
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.	
	 limits at least once per 24 hours. 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. 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. 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 greater than or equal to 105°F, by verifying suppression chamber average water temperature greater than or equal to 1% of RATED THERMAL POWER.

< See ITS 3.6.2.1 GN & ITS 3.6.2.2)

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Its 3.6.2.1

LIMITING CONDITION FOR OPERATION (Continued) ACTION: (Continued) c. Deleted. d. Deleted. With the drywell-to-suppression chamber bypass leakage in excess of íe. the limit, restore the bypass leakage to within the limit prior to increasing reactor coolant temperature above 200°F. IT53.6.1.1 SURVEILLANCE REQUIREMENTS 4.6.2.1 The suppression chamber shall be demonstrated OPERABLE: See ITS 3.6.2.2 By verifying the suppression chamber water volume to be within the limits at least once per 24 hours 5R3.6.2.1.1 At least once per 24 hours in OPERATIONAL CONDITION 1 or 2)by A. 2 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 1. the suppression chamber, by verifying the suppression chamber average water temperature less than or equal to 105°F. At least once per 60 minutes when suppression chamber average Required 2. water temperature is greater than 105°F, by verifying Action 4.2 suppression chamber average water temperature less than or equal to 110°E and THERNAL POWER less than or equal to 1% of RATED THERNAL POWER. 'L,2 At least once per 30 minutes following a scram with suppression Champer average water temperature greater than or equal to 105°F, by verifying suppression chamber average water 3. Required Actor C.2 temperature less than or equal to 120°F.

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LIMITING CONDITION FOR OPERATION (Continued) ACTION: (Continued) с. Deleted. d. Deleted. With the drywell-to-suppression chamber bypass leakage in excess of e. the limit, restore the bypass leakage to within the limit prior to increasing reactor coolant temperature above 200°F. See ITS SURVEILLANCE REQUIREMENTS 3.6.2.1 4.6.2.1 The suppression chamber shall be demonstrated OPERABLE: SR 3.6.2.2.1 a. By verifying the suppression chamber water volume to be within the limits at least once per 24 hours. At least once per 24 hours in OPERATIONAL CONDITION 1 or 2 by **b**. 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 1. the suppression chamber, by verifying the suppression chamber average water temperature less than or equal to 105°F. At least once per 60 minutes when suppression chamber average 2. 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. At least once per 30 minutes following a scram with suppression 3. 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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CONTATINENT STOTERS	
A.1] ITS 3.6.1.1	
SURVEILLANCE REQUIREMENTS (Continued)	,
c. Deleted. (24)	I
d. By conducting drywell-to-suppression chamber bypass leak tests at least once per 10 months at an initial differential pressure of	•
If any 1.5 psi leak test results in a calculated A/ 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/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/ 4 k greater than the specified limit, then the test schedule for subsequent tests shall be reviewed by the Commission.	2
If two consecutive 5 psi leak tests result in a calculated A/4k 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/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.	

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ITS 3.6.2.1

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/\sqrt{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.	
	f two consecutive 1.5 psi leak tests result in a calculated A/√k preater than the specified limit, then:	
	 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/Vk 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.	
	f any required 5 psi leak test results in a calculated A/√k greater han the specified limit, then the test schedule for subsequent ests shall be reviewed by the Commission.	
	f two consecutive 5 psi leak tests result in a calculated A/ 4 k reater than the specified limit, then a 5 psi leak test shall be erformed at least once per 9 months until two consecutive 5 psi eak tests result in a calculated A/ 4 k within the specified limit, fter which the above schedule of once per 18 months for only 1.5 si leak tests may be resumed.	A. 3 moved to ITS 3.6.1.1

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ITS 3.6.2.4

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CONTAINMENT SYSTEMS

SUPPRESSION POOL SPRAY

LIMITING CONDITION FOR OPERATION

LC03,6,2,4

3.6.2.2 The suppression pool spray mode of the residual heat removal (RHR) system shall be OPERABLE with two independent loops, feach loop consisting or: LA.I One OPERABLE RHR pump, and An OPERABLE Now path capable of recirculating water from the

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

suppression chamber.

ACTION:

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 (Within the next 12 hours and in COLD SHUTDOWN within the following ACTIONA ACTIONC -24 hours.

b. ζ With both suppression pool spray loops inoperable, restore at least one loop to OPERABLE status within 8 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the ActionB ACTENC - following 24 hours.

SURVEILLANCE REQUIREMENTS

4.6.2.2 The suppression pool spray mode of the RHR system shall be demonstrated **OPERABLE:** A.3

At least once per 31 days/by verifying that each valve (manual, a. SR3.6.2.4.1 power operated (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 SR 3.6,2.4.20. at least 450 gpm on recirculation flow through the suppression pool spray sparger when tested pursuant to Specification 4.0.5.

> 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.

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ITS 3. 6.2.3

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Position

CONTAINMENT SYSTEMS

SUPPRESSION POOL COOLING

LIMITING CONDITION FOR OPERATION

1003.6.2.3

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

One OPERABLE RHR pump; and a. An OPERABLE flow path capable of recirculating water from the b. suppression chamber through an RHRSW heat exchanger.

7.1

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

7days a. {With one suppression pool cooling loop inoperable, restore the inoperable loop to OPERABLE status within (2 hours for be in at least ACTION A HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours. Lthe following 24 hours. Action c Etatus within Shours Actions b. (With both suppression pool cooling loops inoperable, the in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWNS within the next

SURVEILLANCE REQUIREMENTS

124 hours.

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, 5R3.6.23.1 a. power operated (reutomatic), in the flow path that is not locked, sealed or otherwise secured in position, is in its correct position, orcaube

SR3.6.2.3.2 b. 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.

*Whenever both RHR subsystems are inoperable, if unable to attain SOLD 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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CONTAINMENT SYSTEMS (A.1) ITS 3.6.1.3
3/4.6.3 PRIMARY CONTAINMENT ISOLATION VALVES
LIMITING CONDITION FOR OPERATION
L^{\odot} 3.6.3 Each primary containment isolation value and reactor instrumentation line excess flow check value shall be OPERABLE".
APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3: (add proposed 2nd Applicability (M.1)
ACTION: (add proposed Notes Jew & 4 to Actrons) [A. 2]
ACTIONS A a. With one or more of the primary containment isolation valves, except (A.3) the reactor instrumentation line excess flow check valves, inoperable:
1. Maintain at least one isolation value OPERARIE to each affected $A,4$ penetration that is open and within (2 hours either; L_1)
a) Postove the inormable valve(s) to OPSRABLE status, or
 b) Isolate each affected penetration by use of at least one deactivated automatic valve secured in the isolated position, or
c) Isolate each affected penetration by use of at least one Required Action closed manual value or blind flange. Or check value with flow secured
ACTION E and in COLD SHUTDOWN within the following 24 hours. (add proposed ACTION B)
ACTIONC b. With one or more of the reactor instrumentation line excess flow check valves inoperable:
1. Operation may continue and the provisions of Specification 30.3 A.6 are not applicable provided that within (2) hours (either): 72 L.4
(a) The inoperable valve is returned to OPERABLE status, or
b) The instrument line is isolated and the associated Note 3 to Actions (instrument is declared inoperable.
A CTION \in 2. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
add proposed ACTION D L.13
add proposed ACTION FM.1
Note 1 to Station values closed to satify these requirements may be reopened on an Actions 7 intermittent basis under administrative control. Note 2 to Station values allowed values may be opened on an intermittent basis under L-5 session 3,2
and SR3.6.1.3.3
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SURVEILLANCE REQUIREMENTS

4.6.3.1 Each primary containment isolation valve shall be demonstrated OPERABLE prior to returning the valve to service after maintenance, repair or L.6 replacement work is performed on the valve or its associated actuator, control or power circuit by cycling the valve borough at least one complete cycle of full travel and verifying the specified isolation time. 5R36.1.3.7 4.6.3.2 Each primary containment automatic isolation valve shall be demonstrated OPERABLE during COLD SHURDOWN or REFUSLING at least once per (18) months by verifying that on a containment isolation test signal each 8 Tautomatic isolation valve actuates to its isolation position. Corcetual 4.6.3.3 The isolation time of each primary containment power operated of ZD.1 523,6.1.3.5 automatic isolation valve shall be determined to be within its limit when LA.1 tested pursuant to Specification 4.0.5. SR 3.6.1.3.9 4.6.3.4 Each reactor instrumentation line excess flow check value shall be demonstrated OPERABLE at least once per B months by verifying that the value 0,1 L,9 checks tion. (actuates to the isolation position) 4.6.3.5 Each traversing in-core probe system explosive isolation valve shall be demonstrated OPERABLE: At least once per 31 days by verifying the continuity of the 5R 3.6.1.3.4 a. LDI explosive charge. 2.4 At least once per (13) months by removing the explosive south from at fin tron of 5R3.6,1.3.9 b. least one explosive valve such that the explosive squib in each STAGGERED explosive valve will be tested at least once per 60 months, and initiating the explosive squib. The replacement charge for the exploded squib shall be from the same manufactured batch as the one fired or from another batch which has been certified by having at TEST BASIS 120-LD.1 least one of that batch successfully fired. No explosive squib shall remain in use beyond the expiration of its shelf-life and LA.2 operating-Nife. At the frequency specified by the Primary Containment Leakage Rate 4.6.3.6 **Testing Program:** Verify leakage rate for any one main steamline through the isolation SR 36 (.3,10 a. values is \leq 100 scfh, not to exceed 400 scfh for all four main steamlines, when tested at \geq 25.0 psig. Verify combined leakage rate through hydrostatically tested lines SR 3.6.1.3.11D. that penetrate the primary containment is within limits.

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M.1

A

CONTAINMENT SYSTEMS

3/4.6.4 VACUUM RELIEF

LIMITING CONDITION FOR OPERATION

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

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

b.

With one suppression chamber -drywell vacuum breaker inoperable and open,

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

At least once per of 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.

At least once per (18) months by verifying the force required to open the

vacuum breaker, from the closed bosition to be less than or equal to 0.5

within 4 hours close the manual isolation valves on both sides of the inoperable and

ACTION 8

ACTION C

SURVEILLANCE REQUIREMENTS

(and in COLD SHUTDOWN within the following 24 hours.

(24)

4.6.4.1 Each suppression chamber - drywell vacuum breaker shall be:

- SR3-LI.L. a. Verified closed at least once per 14 days.
 - b. Demonstrated OPERABLE:

psid,

1.

2.

______SR3.6.1.6.2

SR3.6.1.63

S.R. 3.L.I.L. I Notes land 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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TTS 3.6, 4,1 CONTAINMENT SYSTEMS 3/4.6.5 SECONDARY CONTAINMENT SECONDARY CONTAINMENT INTEGRITY LIMITING CONDITION FOR OPERATION LCO 3.6.5.1 SECONDARY CONTAINMENT (INLEGRITY shall be maintained. 3.6.4.1 OPERABLE APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, and *. ACTION: OPERABLE Without SECONDARY CONTAINMENT INTEGRITY: DOPERABLE STATUS Action A In OPERATIONAL CONDITION 1, 2 or 3, restore SECONDARY CONTAINMENT INTEGRISSI within 4 hours or be in at least HOT SHUTDOWN within the ACTION B b. (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 ALTIONC Specification 3.0.3 are not applicable. SURVEILLANCE REQUIREMENTS OPERABILITY A. 2 SECONDARY CONTAINMENT (INTEGRNY) shall be demonstrated by: 4.6.5.1 SR 3.6.4.(1 a. Verifying at least once per 24 hours that the pressure within the secondary containment is less than or equal to 0.25 inches of vacuum water gauge. M. 1 ь. Verifying at least once per 31 days that: At least one door in each access to the secondary containment SR 3.6.4.1.2 1. A.3 is closed. All secondary containment penetrations not capable of being 2. A.4 closed by OPERABLE secondary containment automatic isolation moved to dampers and required to be closed during accident conditions ITS 3.6.4.2 are closed by valves, blind flanges, or deactivated automatic dampers secured in position. LD-1 At least once per (18) months: c. (ON a STAGGERED TEST BASIS) Verifying that one standby gas treatment subsystem will draw 1. M 12 SR 3.6 A.1. 2 down the secondary containment to greater than or equal to 0.25 in. of vacuum water gauge in less than or equal to 300 seconds, and Operating one standby gas treatment subsystem for one hour and 2. SR 3.6.4.1.4 maintaining greater than or equal to 0.25 inches of vacuum water gauge in the secondary containment at a flow rate not exceeding 4000 CFM ± 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 CONTAINMENT INTEGRITY is maintained when secondary containment vacuum is less than required for up to 1 hour solely due to Reactor Building ventilation M.L system failure

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See ITS'

.6.4.1

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not locked. sealed, or

stherwise

Secured

See ITS

L.7

Note 2

CONTAINMENT_SYSTEMS

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:

ίЬ.

Without SECONDARY CONTAINMENT INTEGRITY:

- In OPERATIONAL CONDITION 1, 2 or 3, restore SECONDARY CONTAINMENT а. 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 b. 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

SECONDARY CONTAINMENT INTEGRITY shall be demonstrated by: 4.6.5.1

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

Required 7 Action A. Zow SR 3.6.4.2.1

Verifying at least once per 31 days that:

At least one door in each access to the secondary containment add proposed 11. Require & Action A.2. Notecul is closed. 2. (All secondary containment penetrations not capable of being SR3.6.4.2.1 Note closed by OPERABLE secondary containment automatic isolation SR3.64.2.1. dampersvand required to be closed during accident conditions are closed by valves, blind flanges, or deactivated automatic add proposed Resired Action A.2 dampers secured in position. SR3.6.4.2.1

At least once per 18 months:

- Verifying that one standby gas treatment subsystem will draw 1. down the secondary containment to greater than or equal to 0.25 fn. of vacuum water gauge in less than or equal to 300 seconds, and
- Operating one standby gas treatment subsystem for one hour and 2. maintaining greater than or equal to 0.25 inches 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.

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3.6.4.1 Amendment No. Page 32F6

A.4

CONTAINMENT SYSTEMS

SECONDARY CONTAINMENT AUTOMATIC ISOLATION DAMPERS

LIMITING CONDITION FOR OPERATION

ACTION A

ACTION

LC036.4.2 3.6.5.2 The secondary containment ventilation system automatic isolation LA. dampers shown in lable 3.6.5.2-1 shall be OPERABLE with isolation times equal to or less than shown in Table 3.6.5.4.1.

A , (

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, and *. LI add propased Note 1 to Actions ACTION: With one or more of the secondary containment versitation system automatic A.(isolation dampers shows in Table \$.6.5.2-D inoperable: Maintain at least one isolation damper OPERABLE in each affected a Δ.3 penetration that is open and within 8 hours, either:

Restore the inoperable damper to OPERABLE status, or 2. Isolate each affected penetration by use of at least one deactivated automatic damper secured in the isolation position,

- 3. Isolate each affected penetration by use of at least one closed manual valve or blind flange. (add proposed Action B
- 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.

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.

SURVEILLANCE REQUIREMENTS

4.6.5.2 Each secondary containment ventilation system automatic isolation AI damper shown in Table 3.5.5.2-D shall be demonstrated OPERABLE: Prior to returning the damper to service after maintenance, repair а. 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 1.3 isolation time. During COLO SHUIDOWN or REFDELING at least once per (18 months by L.4 5R3.6.4.2.3 b. verifying that on a containment isolation test signal each isolation LD.1 damper actuates to its isolation position. Actualor By verifying the isolation time to be within the limit when tested 1.5

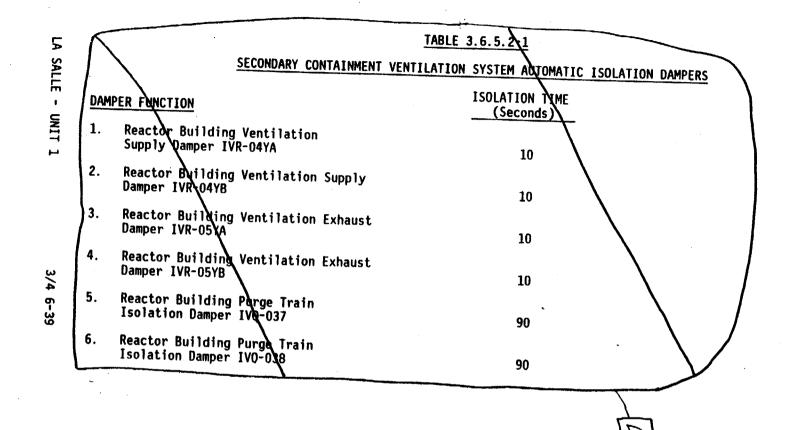
SR3.6.4.2.2 C. (pursuant to Specification 4.0.5) (every 92 days -A.I

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

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A.1

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53,6,4,2

ITS 3.6.4.3

STANDBY GAS TREATMENT SYSTEM

LIMITING	CONDITION FOR OPERATION	أنعنا
26036.4.3	Two independent standby gas treatment subsystems shall be OPERABLE.	[[A.1]] TA.2]
APPLICAB	(LITY: OPERATIONAL CONDITIONS 1, 2, 3, and *.	1
$\frac{\text{ACTION}}{\text{ACTION}} = \frac{1}{2}$	With one standby gas treatment subsystem inoperable, restore the inoperable subsystem to OPERABLE status within 7 days, or:	
A CTION B	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.	1
ACTION C	2. In Operational Condition*, suspend handling of irradiated fuel in the secondary containment, CORE ALTERATIONS and opera- tions with a potential for draining the reactor vessel. The provisions of Specification 3.0.3 are not applicable.	
ACTION E b.	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.	
SURVEILLA	A GOD PROPOSED ACTION D	<u>–[A.3</u>]

A .'

4.6.5.3 Each standby gas treatment subsystem shall be demonstrated OPERABLE:

5R3.6.4.3.1 a. At least once per 31 days by initiating, from the control room, flow LA.2 through the HEPA filters and charcoal adsorbers and verifying that the subsystem operates for at least 10 hours with the heaters OPERABLD.

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 $A.7$ Condition *.

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3/4 6-40

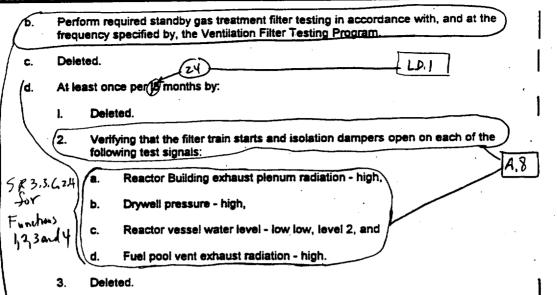
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operativo

A-4

SURVEILLANCE REQUIREMENTS (Continued)



A-1]

(see ITS 36.4 3)

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3/4 6-41

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ITS 33.6.L

SURVEILLANCE REQUIREMENTS (Continued)

5R b. 3.6.4.3.2 Perform required standby gas treatment filter testing in accordance with, and at the frequency specified by, the Ventilation Filter Testing Program.

A . I

- c. Deleted.
- d. At least once per months by:
 - I. Deleted.
- SR 3-6.4.3.3 2.
- Verifying that the filter train starts and isolation dampers open on each of the following test signals: (practual)

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

4

3. Deleted.

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IT5 3.6.4.3

A.S

LD.1

SURVEILLANCE REQUIREMENTS (Continued)

- e. Deleted.
- f. Deleted.

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3/4 6-42

Page 30f6

CONTAINMENT SYSTEMS 3/4.6.6 PRIMARY CONTAINMENT ATMOSPHERE CONTROL DRYWELL AND SUPPRESSION CHAMBER HYDROGEN RECOMBINER SYSTEMS LIMITING CONDITION FOR OPERATION LCo3.6.3.1 3.6.6.1 Two (independent) drywell and suppression chamber hydrogen recombiner APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2. add proposed Note to Action A ACTION: With one drywell and/or suppression chamber hydrogen recombiner system (inoperable, restore the inoperable system to OPERABLE status within 30 days or ACTIONA be in at least HOT SHUTDOWN within the next 12 hours. Actions 1.2 add 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 **D**. (SR3.6.3.1.1 b. At least once per (18) months by verifying, during a recombiner system functional test: 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 time voltage differences. LA.2 2. That the reaction chamber gas temperature increases to 1200 25°F within 2 hours LD1 At least once per 08 months by: c. 1. Performing a CHANNEL CALIBRATION of all recombiner operating instrumentation and control circuits. SR 3.6, 3.1.2 2. 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. LA. 2

A.1

100,000 ohms.

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ITS 3.6.3.1

ITS 3.6.3.2

A.Z

K. A

CONTAINMENT SYSTEMS

DRYWELL AND SUPPRESSION CHAMBER OXYGEN CONCENTRATION

LIMITING CONDITION FOR OPERATION

LCO3, 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 10, during the time period:

- a. 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:

Action A 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 Action B for be in at least CLARIUB within the next 8 hours.

15% RTP

SURVEILLANCE REQUIREMENTS

SR3.6.3.2.1

4.6.6.2 The oxygen concentration in the drywell and suppression chamber shall be verified to be within the limit within 24 hours after HERMAL POWER is A.4 greater than 15% of RATED THERMAL ROWER and at least once per 7 days thereafter.

*See Special Test Exception 3.10.5.

LA SALLE - UNIT 1

3/4 6-44

A.2

ITS	3.7.1	l
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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
•	LIMITING CONDITION FOR OPERATION
LCO3.7.1	 3.7.1.1 Two (independent) residual heat removal service water (RHRSW) system subsystems shall be OPERABLE, with each subsystem comprised of: a. Two OPERABLE RHRSW pumps, and b. An OPERABLE flow path capable of taking suction from the CSCS water tunnel and transferring the water through the associated RHR heat exchanger.
	APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 4 and 5.
	ACTION:
	a. In OPERATIONAL CONDITION 1, 2 or 3:
ACTION A-	1. (With one RHRSW subsystem inoperable, restore the inoperable
ACTION C-	SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the
ACTION B - ACTION C-	2. (With both RHRSW subsystems inoperable, be in at least HOT SHUTDOWN (within 12 hours and in COLD SHUTDOWN) within the next 24 hours.
Notes to Actions A	b. In OPERATIONAL CONDITION 3 or 4 with the RHRSW subsystem(s) inoperable
	C. In OPERATIONAL CONDITION 5 with the RHRSW subsystem# cooling mode loop(s) inoperable which is associated with an RHR system required OPERABLE by Specification 3.9.11/1 or 3.9.11.2, declare the associated RHR system inoperable and take the ACTION required by Specification 3.9/1.1 or 3.9.11/2.
	SURVEILLANCE REQUIREMENTS
SR 3.7.1.1	4.7.1.1 Each residual heat removal service water system subsystem shall be demonstrated OPERABLE at least once per 31 days by verifying that each valve in the flow path that is not locked, sealed or otherwise secured in position, is in its correct position. Or can be aligned to the correct position 43
	*Whenever both RHRSW 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. #Only one pump per subsystem need be OPERABLE if sufficient for decay heat removal.
	LA SALLE - UNIT 1 3/4 7-1

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PLANT SYSTEMS

DIESEL GENERATOR COOLING WATER SYSTEM

LIMITING CONDITION FOR OPERATION

LAIL 3.7.1.2 The (independent)Unit 1 Division 1, 2 and 3 and the Unit 2 Division 2 diesel generator cooling water subsystems shall be OPERABLE(with each subsystem LC0 37.2 comprised of: One OPERABLE diesel generator cooking water punk, and a. An OPERABLE flow path capable of taking suction from the CSCS weter tunnel and transferring cooling water to the associated diesel generator. APPLICABILITY: When the diesel generator is required to be OPERABLE. and 3 modes 1, 2, LA.2 Add proposed ACTION: 1.2 ACTIONS NOTE With one or more diesel generator cooling water subsystems inoperable, declare ACTED A -M.1 the associated diesel generator) inoperable and take the ACTION required by Specifications 3.8.1.1 or 3.9.1.2, as applicable. 3 LA.2 SURVEILLANCE REQUIREMENTS

A.L

4.7.1.2 Each of the above required diesel generator cooling water subsystems shall be demonstrated OPERABLE:

St 3.7.2.1

SR 37.2.2

At least once per 31 days by 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. At least once per months by verifying that: 1. Each pump starts automatically upon receipt of a start signal LA3 for the associated biesel generator, and

The (Nvishon Dpump starts automatically upon receipt of () start signal (for the LRCS pump in Unit) 2. LAJ LA 3 each required,

actual or simulated

L. 1

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LA SALLE - UNIT 1

3/4 7-2

	PLAN	T. SYS	TEMS			ITS 3.7.3	
	ULTI	MATE I	HEAT SINK	A.1			
	LIMI	TING	CONDITION FOR OPERAT	TON	·		
LO 37.3	3.7.	1.3	The CSCS pond shall	be OPERABLE.			
	APPL	ICABI	LITY: OPERATIONAL C	CONDITIONS 1, 2	2, 3, 4, 5, and *.	-[LA.1]	M.I
Action A	ACTI(with	<u>ON</u> : I in 90	With the CSCS pond i days or:	inoperable, res	store the pond to C ue to sediment de - pond bottom eleve	PERABLE status position in excess of 11 then greater them limit	<u> </u>
Action B		a.	In OPERATIONAL COND within the next 12 24 hours.	DITION 1, 2, or hours and in 1	r 3, be in at least	HOT SHUTDOWN	MI
			In OPERATIONAL COND the diesel generato ACTION required by	or cooling wate	er system inoperabl	e and take the	
	SURVI	EILLA	NCE REQUIREMENTS			4 LA.1	
	4.7. 8 m	1.3 onths	The CSCS pond shall by determining that	be determined	OPERABLE at least	once per LD.1	ן
SR 3.7.3.	.2	a.	No sediment deposit intake flume or in Sounding cross-sect	the CSCS pond	as determined by	series of)
SR 3.7,3	3.3	b.	The pond bottom ele	evation is les	s than or equal to	686.5 feet.	
				(Add propose	SR 3.7.3.1	M.L	
•	Whe	n hàn	dling irradiated fue	et in the second	ndary containment.	LA.I	
			· •		-		

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3/4 7-3

LA SALLE - UNIT 1

	PLANT SY	STEMS		A.1]		ITS 3.7.4	
	•	ONTRO	ROOM AND	AUXILIARY ELEC		NT ROOM	EMERGENCY	· .
A								·····
								-LA.II
LCO 3.7.4	3.7.2 Two system trai	ns shall	be OPERABL		electric equipmo	MODES 1	12, and 3	(L.I)
	APPLICAB		NI OPERATIO	NAL CONDITION	Island *.	During (CORE ALTERATION	s).
	ACTION:					During	OPURS	
ACTION	J A ∎ .			vithin 7 days or:	train inoperable,	restore the	inoperable train to	I
ACTIO	n B			NAL CONDITION t 12 hours and in	COLD SHUTDO	WN within 1		
Actio				mergency filtratio	14, 5 or *, initiate n system in the p	and maint	ain operation of the	
(Add P	roposed ACTION							A.3
OPI	ing CORE ERATIONS, DR VS,	CONE the se vesse	CION4.5 or condary conta	inment and opera	ALTERATIONS ations with a pote	to suspend	of irradiated fuel in lining the reactor	L
NOTE TO ACTO	owiE ∙ c .∙	The p	rovisions of Sp	ecification 3.0.3	are not applicabl	e in Operati	ional Condition *.	
	SURVEILL	ANCE F	REQUIREMEN	TS				
			room and au ited OPERAB		ipment room em	ergency filt	ration system train	
	8.	At lea	st once per 31	days(<u>on a STAG</u>	GEREDITEST	ASIS L.		
· SR 3.7	9.4.1		Emergency Fi	Control Room an Iter System for gr rs operating, and				
SR 3	7.4.2			ting flow through om recirculation fi			ry electric	
Apolicabilit.	*When ima The nom S or *.	diated f	uel is being ha	andled in the seco er source may be	ondary containm noperable in Ol	PERATION	AL CONDITION 4.	
	LA SALLE	- UNIT	1	3/4 7	2 -4		Amendment No.	. <u>2</u> 126
-								
			•		. •	Page	lofb	

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ZTS 3,37,1 S 3,74 S 3,74 S 3,27,1 S 4,27,1 S 4,2				Amendment No. 126 Rafe 5 of 11
See IT:		change [1.]		3.4 7-5
PLANT SYSTEMS SURVEILLANCE REQUIREMENTS (Continued) b. Perform required control room and a accondance with, and at the frequen Program.	c. Deleted. SR 3, 3, 7, 1, 4 d. At least once per (18 months by: 1. Deleted.	Applicability ch		LA SALLE - UNIT 1

PLANT SYSTEMS

b.

d.



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.

Deleted. C.

0.1 Z4 At least once per (18) months by:

- SR 3.7.4.4 SR 3.7.4.5
- Deleted. 1.

LA SALLE - UNIT 1

3/4 7-5

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PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

Verifying that on each of the below pressurization mode actuation test signals) 2. the emergency train automatically switches to the pressurization mode of operation / Manually initiate flow through the control room and auxiliary electric SR 3, 3. 7. 1,4 equipment room recirculation filters line 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.6 Outside air smoke detection, and see ITS 3.7. 8) Б Air intake radiation monitors.

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

LA SALLE - UNIT 1

3/4 7-6

Amendment No. 126

ITS 3.3.7.1

Page 60fll

IT\$ 37.4 A. I PLANT SYSTEMS A.2 actual or SURVEILLANCE REQUIREMENTS (Continued) LA.4 Verifying that on each of the below pressurization mode actuation test signals, the emergency train eutomatically ewitches to the pressurization mode of operation. Manually initiate flow through the control room and auxiliary electric. LA.3 (equipment room regirculation filters line and then verify that the control room SR 3.7.4.4 2. SR 3.7.4.5. 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: actuates Outside air smoke detection, and b Ainintake cadiation monitors. 3. Deleted. Deleted.

f. Deleted.

LA SALLE - UNIT 1

3/4 7-6

Amendment No. 126

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PLANT SYSTEMS

IA.

3/4.7.3 REACTOR CORE ISOLATION COOLING SYSTEM

LIMITING CONDITION FOR OPERATION

LCO35.3 3.7.3 The reactor core isolation cooling (RCIC) system shall be OPERABLE/with an OPERABLE flow path/capable of taking soction from the suppression pool and transferring the water to the reactor pressure ressel.//

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

ACTION:

a. With a RCFC discharge fine "keep filled" pressure alarm instrumentation chamnel inoperable, perform Surveillance Requirement 4.7.3.a.1 [L.2] at least once per 24/hours.

A.I

ACTINA 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 for be in at least HOT SHUTDOWN within the next 12

ACTION B -

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:

a. At least once per 31 days by:

LA .2

SR 3.5.3.1

1. Verifying by venting/at the high/point vents) that the system piping from the pump discharge value to the system isolation value is filled with water,

2. Performance of a CHANNEL FUNCTIONAL TEST of the discharge line L.Z. "keep filled" pressure alarm instrumentation and

SR 3.5.3.2

3. {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.

Verifying that the pump flow controller fis in the correct position.

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.

The provisions of Specification 4.0.4 are not applicable provided the SR3.5.3.3 surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the tests.

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ITS 3.5.3

PLANT SYSTEMS

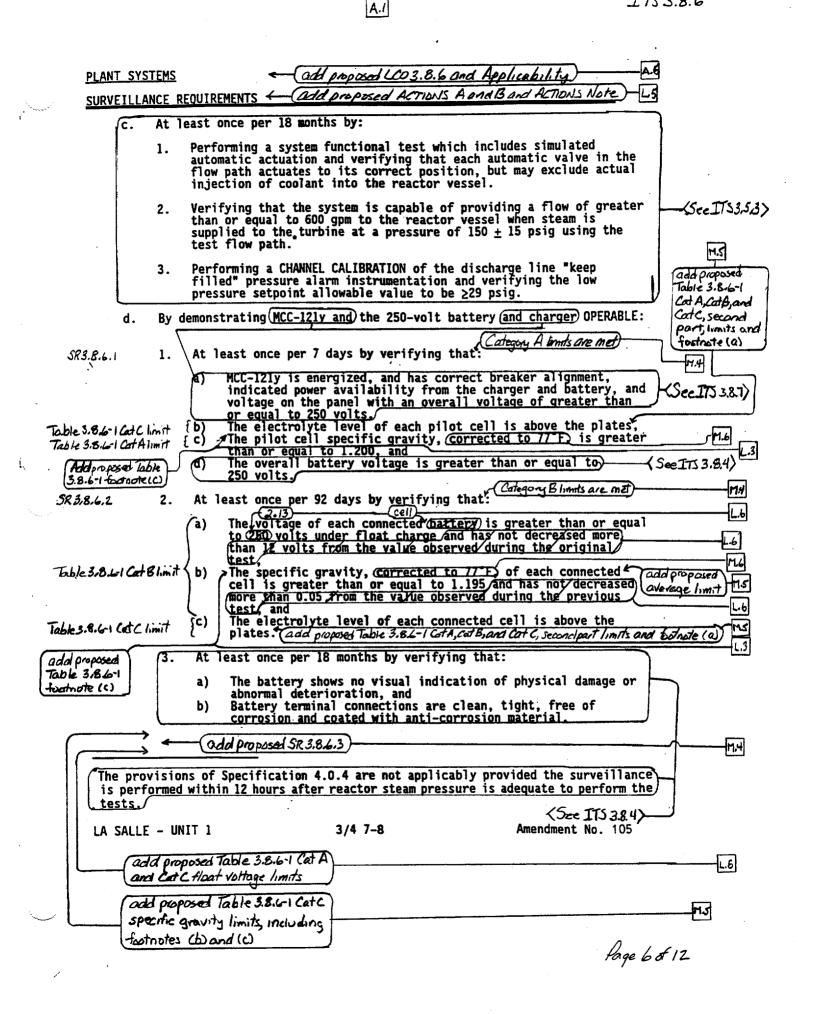
SURVEILLANCE REDUIREMENTS 10.1 At least once per 18 months by: (24) c. actual or 12-11 SPerforming a system functional test which includes simulated SR 3,5.3 5 1. (automatic actuation/and/verifying that each automat/c valve in the) [LA.2 flow path actuates to its correct position, but may exclude actual injection of coolant into the reactor vessel SR3.5.3.5 corresponding NOTE to rento (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 |A|supplied to the turbine at a pressure of 150 ± 15 psig using the test flow pathe 2. 14.4 SR 3.5.3.4 test flow patha Performing a CHANNEL CALIBRATION of the discharge line "keep filled" pressure alarm instrumentation and verifying the low pressure setpoint allowable value to be 229 psig. L.2 By demonstrating MCC-121y and the 250-volt battery and charger OPERABLE: ld. At least once per 7 days by verifying that: 1. MCC-121y is energized, and has correct breaker alignment, indicated power availability from the charger and battery, a) 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 plates, b) The pilot cell specific gravity, corrected to 77°F, is greater c) than or equal to 1.200, and The overall battery voltage is greater than or equal to **d**) 250 volts. 2. 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 during the original **a**) Moved to ITS 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 the previous b) 3.8.4, 3.8.6, and 3.8.7 test, and The electrolyte level of each connected cell is above the c) plates. 3. At least once per 18 months by verifying that: a) The battery shows no visual indication of physical damage or abnormal deterioration, and Battery terminal connections are clean, tight, free of **b**} corrosion and coated with anti-corrosion 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 SR3534 NOTE (tests. and flow - A.Z LA SALLE - UNIT 1 3/4 7-8 Amendment No. 105

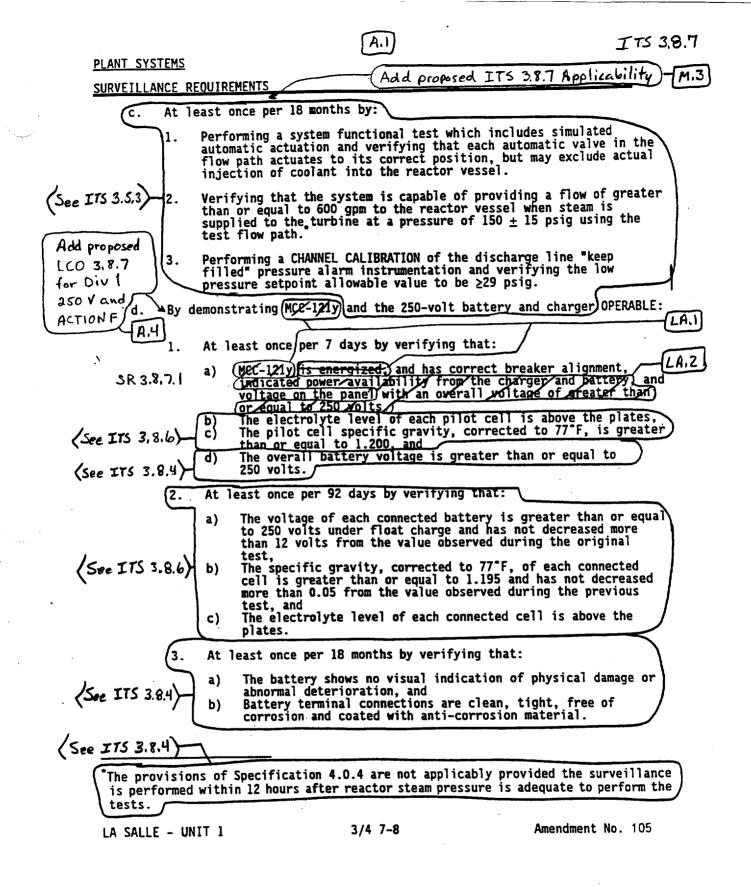
A.1

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ITS 3.8.4

	and proposed UCD 3.8.4 and Applicability	-H.
PLANT_SYSTEM	<u>S</u> <u>A</u> .1	<u> </u>
SURVEILLANCE	REQUIREMENTS	
c. At	least once per 18 months by:	
1.	Performing a system functional test which includes simulated automatic actuation and verifying that each automatic valve in th flow path actuates to its correct position, but may exclude actua injection of coolant into the reactor vessel.	ie 1]
2.	Verifying that the system is capable of providing a flow of great 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 using the test flow path.	
Attiproposed 3. ITS LCO 3.8.4 (Division 1 250V	Performing a CHANNEL CALIBRATION of the discharge line "keep filled" pressure alarm instrumentation and verifying the low pressure setpoint allowable value to be >29 psig.	\mathcal{A}
proposed ACTION C d. By	demonstrating (MCC-121y and the) 250-volt battery and charger OPERAB	E:
(1.	At least once per 7 days by verifying that:	
	 a) MCC-121y is energized, and has correct breaker alignment, indicated power availability from the charger and battery, voltage on the panel with an overall voltage of greater than or equal to 250 volts. 	3.5.3
5R3 B H.1	 b) The electrolyte level of each pilot cell is above the plates c) The pilot cell specific gravity, corrected to 77°F, is greated than or equal to 1.200, and d) The overall battery voltage is greater than or equal to 	ter
· · ·	(256) volts: (on float change) [A.7]	MALLAN ITS
	At least once per 92 days by verifying that:	3.5.3
	a) The voltage of each connected battery is greater than or equivalent to 250 volts under float charge and has not 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 decrease more than 0.05 from the value observed during the previous test, and	
	c) The electrolyte level of each connected cell is above the plates.	\mathcal{I}
3.	At least once per 18 months by verifying that:	
SR 3.8.4.3	a) The battery shows no visual indication of physical damage o abnormal deterioration, and	
SR 38.4.4	b) Battery terminal connections are <u>clean, tight</u> , free of corrosion and coated with anti-corrosion material.	
	\rightarrow	
		\sim
The provisi is performe tests.	ons of Specification 4.0.4 are not applicably provided the surveilla ed within 12 hours after reactor steam pressure is adequate to perform	nce the
LA SALLE - U	-	i)
SR 3.8.4.5, SR 3	(SR 3.8.4.2, 3.8.4.6	H.1
SR 3.8.4.7, and	V SR 3.8.4.8	الـــــا
· .	Page 5 of 10	





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CTS 3/4.7.4 PLANT SYSTEMS 3/4.7.4 SEALED SOURCE CONTAMINATION Rill IMITING CONDITION FOR OPERATION 3.7.4 Each sealed source containing radioactive material either in excess of 100 microcuries of beta ad/or gamma emitting material of 5 microcuries of alpha emitting material shall be free of greater than or equal to 0.005 micro-curies of removable contamination. APPLICABILITY: At all times. ACTION: With a sealed source having removable contamination in excess a. of the above limit, withdraw the sealed source from use and either: 1. Decontaminate and repair the sealed source. 2. Dispose of the sealed source in accordance with Commission Regulations. The provisions of Specification 3.0.3 are not applicable h SURVEILLANCE REQUIREMENTS - Each sealed source shall be tested for leakage 4.7.4. Test Requirements and/or opntamination by: Whe licensee, or a. Other persons specifically authorized by the Commission or an **b.** · Agreement State. The test method shall have a detection sensitivity of at least 0.005 microcuries per best sample. 4.7.4.2 <u>Test Frequencies</u> - Each category of sealed sources, excluding startur sources and fission detectors previously subjected to core flux, shall be tested at the frequency described below. Sources in use - At least once per six months for all sealed sources а. containing radioactive material: With a half life greater than 30 days, excluding Hydrogen 3, 1. and 2. In any form other than gas. LA SALLE - UNIT 1 /4 7-9 Amendment No. 94 page lof 4

CTS 3/4.7.4 .

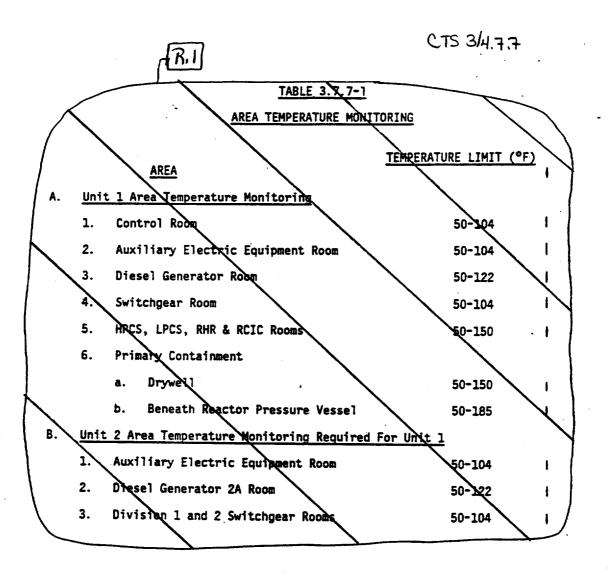
R.I PLANT SYSTEMS SURVEILLANCE REQUIREMENTS (Cortinued) Stored sources not in use - Each sealed source and rission detector shall be tested prior to use or transfer to another licensee unless b. tested within the previous six months. Sealed sources transferred without a certificate indicating the last test date shall be tested prior to being placed into use. <u>Startup sources and fission detectors</u> - Each sealed startup source and fission detector shall be tested within 11 days prior to being c. subjected to core flux or installed in the cone and following repair or maintenance to the source. 4.7.4.3 <u>Reports</u> - A report shall be prepared and submitted to the Commission on an annual basis if seared source or fission detector leakage tests reveal the presence of greater than or equal to 0.085 microcuries of removable contamination.

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CTS 34.7.7 PLANT SYSTEMS B.I 7.7 AREA TEMPERATURE MONITORING 3/4 LIMITING CONDITION FOR OPERATION 3.7.7 The temperature of each area of Unit 1 and Unit 2 shown in Table 3.7.7-shall be maintained within the limits indicated in Table 3.7-1. APPLICABILITY: Whenever the equipment in an affected area is required to be OPERABLE. ACTION: With one or more areas exceeding the temperature limit(s) shown in Table 3.7.7-1; For more than 8 hours, in lieu 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. 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 inoperable. ь. SURVEILLANCE REDUIREMENTS 4.7.7 The temperature in each of the above required areas shown in Table 3.7. shall be determined to be within its limit at least once per 24 hours.

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3/4 7-25

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CTS 3/4,7.8 RLANT SYSTEMS R.I 3/4.7.8 STRUCTURAL INTEGRITY OF CLASS 1 STRUCTURES LIMITING CONDITION FOR OPENATION 3.7.8 The structural integrity of Class 1 structures shall be verified pursuant to the requirements of Specifications 4.7.8.1 and 4.8.2. 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: By telephone within 24 hours, a. Confirmed by telegraph, mailgram or facs mile transmission no later ъ than the first working day following the event, and In writing within 14 days following the event, outlining the action taken, the cause of the inoperability and the plans and schedule for С. 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 0.01 foot by measurement and calculation: At least once per 31 days: 1. During the first 6 months of unit operation. 2 Until observed settlement has stabilized,* and 3. whenever previously stabilized* settlement exceeds 0.01 feet since the previous reading. b. At least ance per 6 months. 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 a Newable and actual settlement. < 0.01 feet from previous reading. page lof2 LA SALLE - UNIT 1 3/4 7-26

MTS 3/4.7.9 RLANT SYSTEMS LAI 7.9 SNUBBERS 3/4 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 in those OPERATIONAL CONDITIONS! ACTIÓN: 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. SURVENLANCE 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. а. Inspection Types As used in this specification, "type of snubber" shall mean snubbers of the same design and manufacturer, irrespective of capacity. b. Visual Inspections Snubbers are categorized as inaccessible or accessible during reactor operation. Each of these categories kinaccessible and accessible) may be inspected independently according to the schedule determined by Table 4.79-1. 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 91. Visual Inspection Acceptance Criteria c. Visual inspections shall verify that (1) the snubber has no visible indications of damage or impaired OPERABILITY, (2) attachments to the foundation or supporting structure are functional, and LA SALLE - UNIT 1 3/4 7-27 Amendment No. 91 page 1 of 16

CTS 3/4.7.9 PLANT SYSTEMS SURVEILLANCE REQUIREMENTS (Continued) (3) fasteners for the attachment of the snubber to the component and to the snubber anchorage 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 net. **Transient Event Inspection** An inspection shall be performed of all hydralic and mechanical shubbers 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 6 months following such an event. In addition to satisfying the visual inspection acceptance criteria, freedom of-motion of mechanical snubbers shall be verified using at least one of the following: (1) manually induced snubber movement; or (2) evaluation of in-place snubber piston setting, or (3) stroking the mechanical snubber through its full range of travel. Functional Tests 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: 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% 1) 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 LA SALLE - UNIT 1 3/4 7-28 Amendment No. 91

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CTS 3/4.79 LA.I PLANT SYSTEMS SURVEXLLANCE REQUIREMENTS (Continued) Functional Tests (continued) e. total number of snubbers of a type found not meeting the acceptance requirements of Specification 4.7.9f. The cumulative number of anubbers 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 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 "Beiget" 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 shubbers tested with the failed equipment during the day of equipment failure are retested; or An initial representative sample of 55 snubbers shall be func-tionally tested. For each snubber type which does not meet the functional test acceptance criteria, another sample of at least one-half the size of the initial sample shall be tested until 3) the total number tested is equal to the initial sample size multiplied by the factor, 1 + CX2, 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 + 6/2). Each snubber point should be plotted as soon as the snubber is tested. If the point plotted falls on or below the "Accept" line, testing of that type of snubber may be terminated. If the point plotted 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 selected for the functional testing 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 config-urations, operating environments, hange 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 bhe type of snubber which has failed the funcbional testing. LA SALLE - UNIT 1 3/4 7-29 Amendment No. 18

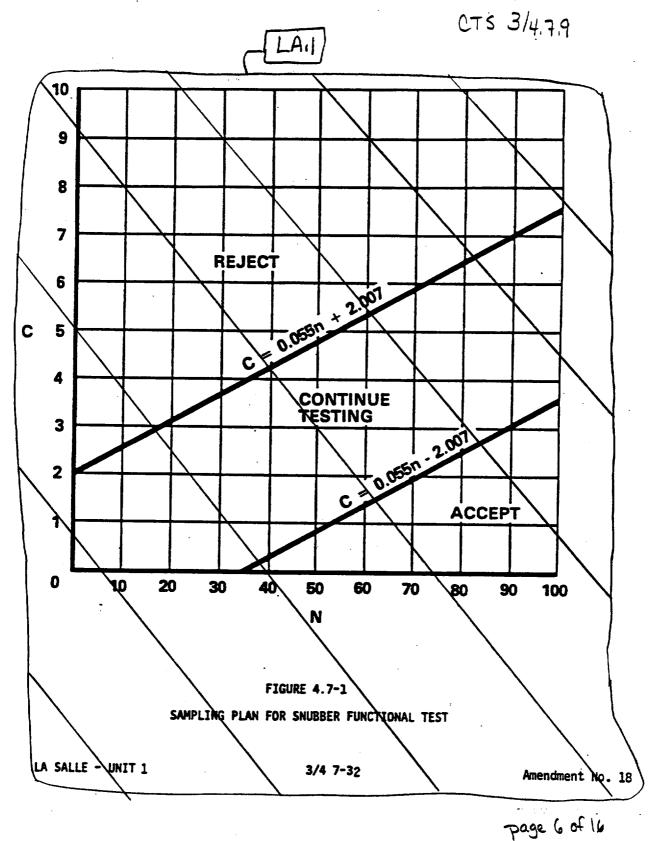
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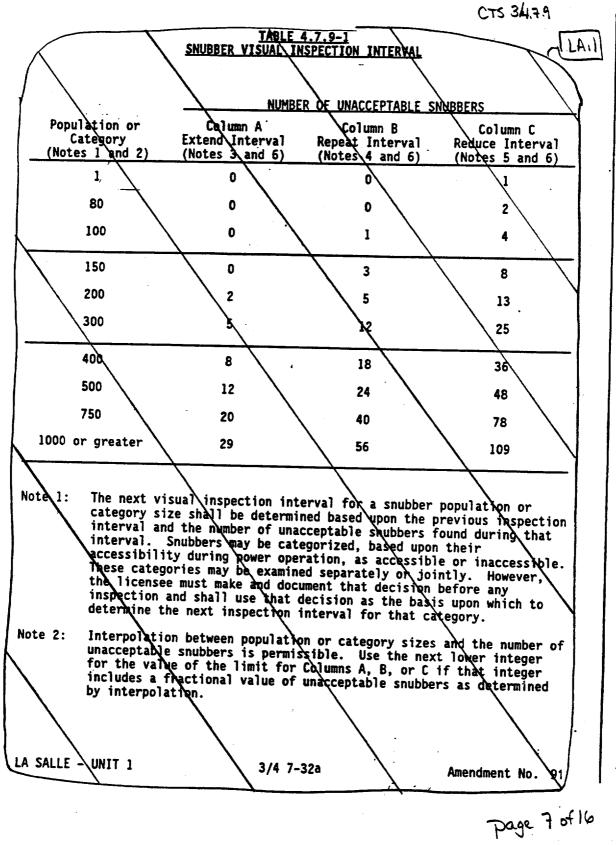
CTS 3/4,7.9 LAI RLANT SYSTEMS SURVEILLANCE REQUIREMENTS (Continued) Functional Testing Acceptance Critekia Not snubber functional test shall verify that: 1) Activation (restraining action) is achieved within the specified range in both tension and compression; Snubber bleed, or release rate where required, is present in both tension and compression, within the specified range; 2) Where required, the force required to initiate or maintain motion of the snubber is within the specified range in both 3) directions of travel; and For snubbers specifically required not to displace under continuous load, the ability of the snubber to withstand load 4) without displacement. Testing methods may be used to measure parameters indirectly parameters other than those specified if those results can be cornelated to the specified parameters through established methods. Functional Test Failure Analysis g. An engineering evaluation shall be made of each failure 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 anubbers 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 desigged 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 tested. This testing requirement shall be independent of the requirements stated in Specification 4.7.9e. for snuppers not meeting the functional test acceptance criteria. h) Functional Testing of Repaired and Replaced Snubbers Snubbers which fail the visual inspection on the functional test acceptance criteria shall be repaired or replaced. Replacement LA SALLE - UNIT 1 3/4 7-30 Amendment No. 18

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		CTS 3/4,7,9
PLANT SYS	STEMS LAII	
SURVEILLA	NCE REQUIREMENTS (Continued)	
h.	Functional Testing of Repaired and Replaced Snub	bars (Continued)
i.	snubbers and snubbers which have repairs which m functional test results shall be tested to meet a criteria before installation in the unit. Mechan have met the acceptance criteria subsequent to the service, and the freedom-of-motion test must have 12 months before being installed in the unit. Snubber Service Life Program	the functional test nical snumbers shall heir most recent
	The service life of hydraulic and mechanical shut monitored to ensure that the service life is not surveillance inspections. The maximum expected s various seals, springs, and other critical parts mined and established based on engineering inform be extended or shortened based on monitored test ure history. Critical parts shall be replaced so service life will not be exceeded during a period is required to be OPERABLE. The parts replacemer mented and the documentation shall be retained in Specification 6.58.	exceeded between service life for shall be deter- mation and shall results and fail- that the maximum when the shubber its shall be decu-

3/4 7-31





CTS 3/4,7.9 TABLE 4.7.9-1 SNUBBER VISUAL INSPECTION INTERVAL (Continued) Note 3: If the number of unacceptable snubbers is equal to or less than the qumber in Column A, the next inspection interval may be twice the previous interval but not greater than 48 months If the number of unacceptable snubbers is equal to or less than the Note 4: number in Column B but greater than the number in Column A, the next inspection interval shall be the same as the previous interval. 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 Note/5: 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 Cologn B to the difference in the numbers in Columns B and C. The provisions of Specification 4.0.2 are applicable for all Note 6: inspection intervals up to and including 48 months. LAIL LA SALLE - UNIT 1 3/4 7-32 b Amendment No. 91 page 8 of 16

	ITS 3.7.7
	A, L
	PLANT SYSTEMS Add Proposed 2nd A.2
	3/4.7.10 MAIN TURBINE BYPASS SYSTEM
	LIMITING CONDITION FOR OPERATION
LCO 3.7,7	3.7.10 The main turbine bypass system shall be OPERABLE.
	APPLICABILITY: OPERATIONAL CONDITION 1, when THERMAL POWER is greater than or equal to 25% of RATED THERMAL POWER.
	ACTION:
	With the main turbine bypass system inoperable:
1	1. If at least four bypass valves are capable of accepting steam flow per Surveillance 4.7.10.a:
ACTION A	a) Within 2 hours, either:
	1) Restore the system to OPERABLE status, or
LC0 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.
ACTIONE	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: (restore 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 nestore the system to OPERABLE L.I
Action 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 37.7.1	a. 7 days by cycling each turbine bypass valve through at least one complete cycle of full travel.

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ITS 3,7,7

PLANT SYSTEMS (Continued)

3/4.7.10 MAIN TURBINE BYPASS SYSTEM

SURVEILLANCE REQUIREMENTS

24 b. 18 months by: Performing a system functional test which includes simulated automatic actuation and verifying that each automatic valve actuates to its correct position. 1. SR 3,7,7,2 LA.I Demonstrating TURBINE BYPASS SYSTEM RESPONSE TIME to be less 2. SR 3.7,7,3 LAZ is within limits

A.1

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ITS 3.8.1

3/4.8 ELECTRICAL POWER SYSTEMS

3/4.8.1 A.C. SOURCES

A.C. SOURCES - OPERATING

LIMITING CONDITION FOR OPERATION

LCO3.8.1 3.8.1.1 As a minimum, the following A.C. electrical power sources shall be 1A.1 **OPERABLE:** qualified Two physically independent circuits between the offsite transmission a. network and the onsite Class IE distribution system, and L66 3.8.1.a (Separate and independent) diesel generators* (0, 1/A, 2A and 1B with L60 3.5.1.6 40 3.5.1.c For diesel generator 0, 1A and 2A: A.2 A separate day fuel tank containing a minimum of a) SR 3.8.1.4 250 gallons of fuel. A.3/moves A separate fuel storage system containing a minimum of ITS 38.3 b) 31.000 gallons of fuel. 1A.2 For diesel generator 1B, a separate fuel storage tank and a day 2. tank containing a minimum of 29,750 gallons of fuel, SR 3.8.1.4 550 gallons of fue WJ separate fuel transfer pump OPERATIONAL CONDITIONS 1, 2, and 3. (A.1 APPLICABILITY: Add proposed ACTION: Appliedvility Notes Idays) 1.181 L. 19 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 ACT ION 12.1 (HOT SHUTDOWN within the next 12 hours and in COLD/SHUTDOWN within Add proposed Required Actor A32 Completion Time ACTION G the following 24 hours. With either the 0 or IA 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 ALTION 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) Amendment No. 109 3/4 8-1 LA SALLE - UNIT 1 lage of 28

A.I

3/4.8 ELECTRICAL POWER SYSTEMS

3/4.8.1 A.C. SOURCES	
A.C. SOURCES - OPERATING	
LIMITING CONDITION FOR OPERATION	
add proposed fuel oil starage tank and starting air 100	-A2
3.8.1.1 As a minimum, the following A.C. electrical power sources shall be OPERABLE:	
a. Two physically independent circuits between the offsite transmission network and the onsite Class IE distribution system, and	
b. Separate and independent diesel generators* 0, 1A, 2A and 1B with:	
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.	A3
SR3.8.3.1 2. For diesel generator 1B, a separate fuel storage tank and a day tank containing a minimum of 29,750 gallons of fuel.	
3. A separate fuel transfer pump.	·
(APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.)	A.Z
ACTION:	
a. 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.	-
b. With either the 0 or 1A 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	ļ
(*See page 3/4 8-1(a).	L.I
LA SALLE - UNIT 1 3/4 8-1 Amendment No. 109	
See ITS 3.B.I	

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ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued) Division *For the purposes of completing maintenance, (modification, and/or technical specification surveillance requirements, on the d 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 condition B statement b are modified to: Eliminate the requirement for performing technical specification surveillance requirements 4.8.1.1.1.a on each operable At source, formediately and once per 8 hours thereafter, when the 0 diesel generator is declared inoperable. Allow an additional 96 hours in excess of the 72 hours allowed in 12.1 Kequired action statement b for the O diesel generator to be inoperable. Action B.4 Add proposed Required Action Condition C Provided that the following conditions are met: B.4 200 Completion Time Unit 2 is in operational condition 4 or 5 or defueled prior to Note to taking the O diesel generator out of service. ConditionB 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 Keguired 2A diesel generators, within 48 hours prior to removal of the 02 /m.4 Action diese generator from service. 8.2 hour 1st Conpletin No maintenance is performed on the offsite circuits or the 1A or 2A L.Z Time ʹC. diesel generators, while the O diesel generator is inoperable. Technical specification requirement 4.8.1.1.1a is performed daily, Required Action B.2 D.\ while the O diesel generator is inoperable. The control circuit for the unit cross-tie circuit breakers between buses 142Y and 242Y are temporarily modified to allow the breakers Complet Time Æ. to be closed with a diesel generator feeding the bus, while the O Required diesel generator is inoperable. Action B.1 Verify the unit crossfie breakers between the wit and LA.8 opposite unit Division 2 Hilb KV emergency bases are capable of being closed with a DG powering one of the buses

A.I

The provisions of technical specification 3.0.4 are not applicable.M.5LA SALLE - UNIT 13/4 8-1aAmendment No. 72, 99

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ITS 3.8.1

1A.I

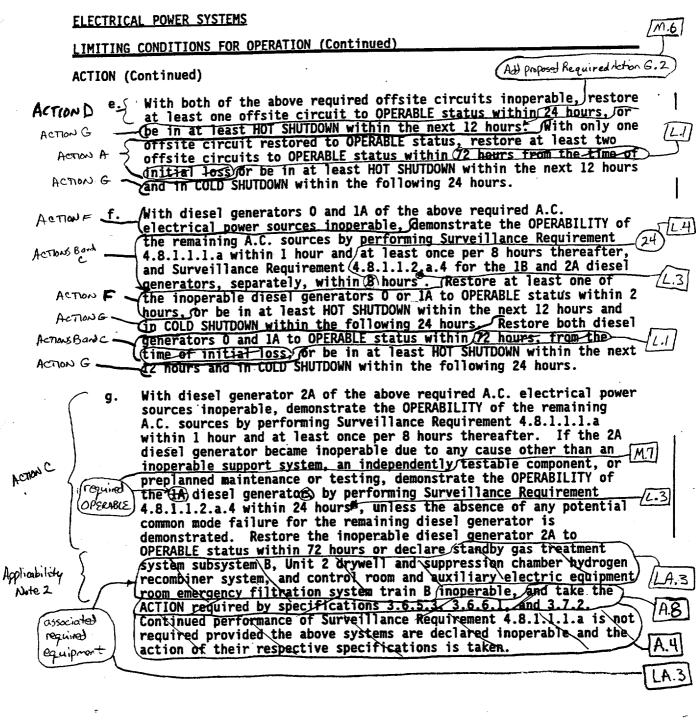
ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued) IZ.I Add proposed Required Action C. 47 12.3 ACTION: (Continued) diesel generators, separately, by performing Surveillance Requirement 4.8.1.1.2.a.4 within 24 hours, unless the absence of ACTION any potential common mode failure for the remaining diesel generator is demonstrated.) Restore the diesel generator 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. ACTION G. Ad proposed ACTION E Note A.7 With one offsite circuit of the above required A.C. sources and **c.** (diesel generator 0 or 1A of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining Condition E A.C. sources by performing Surveillance Requirement 4.8.1.1.1.a L.4 Required within 1 hour and at least once per 8 hours thereafter. If the diesel generator became inoperable due to any cause other than an Actions A. land C.IL inoperable support system, an independently testable component. or Required A tow preplanned maintenance or testing, demonstrate the OPERABILITY of 6.3.2 the remaining OPERABLE diesel generators, separately, by performing Syrveillance Requirement 4.8.1.1.2.a.4 within (B) hours, Anless the Resured absence of any potential common mode failure for the remaining Action (.31) diesel generator is demonstrated. Restore at least one of the inoperable A.C. sources to OPERABLE status within 12 hours or be in Required Actions E.I. at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN ACTION G within the following 24 hours. Restore at least two offsite Circuits and diesel generators Q and IA to OPERABLE status within 22 Hours from the time of initial loss or be in at least HOT SHUTDOWN 12.1 Required Actions. A. Jank C. 4 within the next 12 hours and in COLD SHUTDOWN within the following ACTION G . Att proposed Ree wired Actions A.3 3 Completion Time and C.4 2 Complete 124 hours. With diesel generator 1B of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the offsite A.C. d. 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 ACTIONC preplanned maintenance or testing, demonstrate the OPERABILITY of the remaining OPERABLE diesel generators, separately, by performing Surveillance Requirement 4.8.1.1.2.a.4 within 24 hours, unless the [1.3] absence of any potential common mode failure for the remaining diesel generator is demonstrated. Restore diesel generator 1B to OPERABLE status within 72 hours or declare the HPCS system Adproposed Browned Action C4 200 Completion Time Applicability inoperable and take the ALILON required by specification 3.5.1. Note /A8/ 12.3 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. 3/4 8-2 Amendment No. 109 LA SALLE - UNIT 1

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ITS 3.8.1

A.1



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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11.3

|A.1

ELECTRICAL POWER SYSTEMS

LIMITING CONDITIONS FOR OPERATION (Continued)

M.8 ACTION (Continued) With one offsite circuit of the above required A.C. electrical power h. sources and diesel generator 1B inoperable, apply the requirements Action E of ACTION a and d specified above.) With either diesel generators 0 or 1A inoperable and diesel i. generator 1B inoperable, apply the requirements of ACTION b and d Action F A.9 specified above. With one offsite circuit of the above required A.C. electrical power j. Actions sources and diesel generator 2A inoperable, apply the requirements of A and C ACTION a and g specified above. With diesel generator 1B and diesel generator 2A inoperable, apply ActionC k. the requirements of ACTION d and g specified above. With diesel generator 0 and diesel generator 2A inoperable, apply ActionC the requirements of ACTION b and g specified above.

Add proposed 2^{MD} Condition of ACTION F) [1.5]

LASALLE-UNIT 1

3/4 8-2b

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ITS 3.8.1

		A.1	(A.18)	
ELECTRICAL POWER			Add proposed Surveillance Table Notes land Z)
	of the shove requir	red independent ci e Class 1E distrib	rcuits between the offsite ution system shall be:	IJ
SR 3.8.1.1 {a. Determ breake	nined OPERABLE at long and in alignments and in	east once per 7 da ndicated power ava	ys by verifying correct	.6
SR 3.8.1.8 manual	trated OPERABLE at ly transferring un ternate circuit.	least once per it power supply fr	months <u>during shutdown</u> by om the normal circuit to	
OPERABLE:			TEST PATTE but	1
	st once per 31 days			ł
	erifying the fuel erifying the fuel		A.3]
$5R3.8.1.6$ $\{3. \}$	erifying the fuel the storage system to Schneves a generator voltog erifying the diesel ccelerates to 900 r	transfer pump start to the day fuel tar > 24010 Vand frequency 2 starts from ambie pom +5%, -2%) in les	ts and transfers fuel from $588H_2$ $588H_2$ Ent condition and 55 than or equal to 13	
SR3.8.1.7 ±	econds . Alle gene	rator voltage and 3.0, -1.2 Hz withi	frequency shall be 4160 in 13 seconds** after the BR 3 Seconds	8.1.2 e 3 and 23.8.1.7
SR 3.8.1.3 t	o 2400 kW to 2600 k anufacturer's recom t least 60 minutes.	W in accordance mendations, and op	with the perates with this load for $SR 3.8.1.3$ Abres 3 and M .	<u>Note 2</u>)
SE 3.8.1.7 Surveillance	esel generator star requirements may be	ts performed for th preceded by an en	ne purpose of meeting these	
SR 3.8.1.7 Surveillance t Frequercy from ambient of SR 3.8.1.2 other engine to Notel procedures, at	esting to verify th conditions shall be starts performed fo nay be conducted in s recommended by th	ne diesel generator performed at leas the purpose of m accordance with w e manufacture <u>r</u> in	r start (13 second) time t once per 184 days. All meeting these surveillance varmup and loading order to minimize caused by fast starting of	A.4]
the diesel get	perator		lidate the surveillance	·

LA SALLE - UNIT 1

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Amendment No. 109

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ELECTRICAL POWER SYSTEMS

IT53.8.3

 transmission networ a. Determined breaker a b. Demonstration manually the alterning of the alterni	the above required independ k and the onsite Class IE d d OPERABLE at least once pe lignments and indicated pow ted OPERABLE at least once transferring unit power sup nate circuit. the above required diesel g once per 31 days on a <u>STAGG</u> fying the fuel level in the fying the fuel level in the fying the fuel level in the fying the fuel transfer pum storage system to the day f fying the diesel starts fro lerates to 900 rpm +5%, -2% nds ^T . The generator voltage volts and 60 + 3.0, -1.2 H t signal.	per 18 months during shutdown by oply from the normal circuit to generators shall be demonstrated <u>ERED TEST BASIS</u> by: <u>a day fuel tank.</u> e fuel storage tank. op starts and transfers fuel from fuel tank. om ambient condition and in less than or equal to 13 ge and frequency shall be 4160 iz within 13 seconds** after the is synchronized, and then loaded
a. Determined breaker a b. Demonstration manually the altern 4.8.1.1.2 Each of OPERABLE: a. At least of SR3.83.1 Drv3 DG,onky SR3.83.1 2. Verific the s 4. Verific accel secon ±150 start 5. Verific to 24 manufa at least from ambient concord other engine start	k and the onsite class if o d OPERABLE at least once pe lignments and indicated pow ted OPERABLE at least once transferring unit power sup nate circuit. the above required diesel g once per 31 days on a <u>STAGG</u> fying the fuel level in the fying the fuel level in the fying the fuel level in the fying the fuel transfer pum storage system to the day f fying the diesel starts fro lerates to 900 rpm +5%, -2% nds ^T . The generator voltag volts and 60 + 3.0, -1.2 H t signal. Fying the diesel generator 400 kW to 2600 kW ^T in acco facturer's recommendations,	er 7 days by verifying correct wer availability, and per 18 months during shutdown by oply from the normal circuit to generators shall be demonstrated <u>EREP/TEST BASIS</u> by: <u>a day fuel tank.</u> e fuel storage tank. m ambient condition and in less than or equal to 13 ge and frequency shall be 4160 iz within 13 seconds** after the is synchronized, and then loaded ordance with the
breaker a b. Demonstra manually the altern 4.8.1.1.2 Each of 1 OPERABLE: a. At least of SR3.8.3.1 Drv3 DG,onky 5R3.8.3.1 2. Verif 3. Verif the s 4. Verif accel secon ±150 start 5. Verif to 24 manuf at least 5. Verif Surveillance test from ambient conce other engine star	lignments and indicated pow ted OPERABLE at least once transferring unit power sup nate circuit. the above required diesel g once per 31 days on a <u>STAGG</u> fying the fuel level in the fying the fuel level in the fying the fuel level in the fying the fuel transfer pum storage system to the day f fying the diesel starts fro lerates to 900 rpm +5%, -2% nds ^T . The generator voltag volts and 60 + 3.0, -1.2 H t signal. Fying the diesel generator 400 kW to 2600 kW ^T in acco facturer's recommendations,	per 18 months during shutdown by oply from the normal circuit to generators shall be demonstrated <u>ERED TEST BASIS</u> by: <u>a day fuel tank.</u> e fuel storage tank. p starts and transfers fuel from fuel tank. m ambient condition and in less than or equal to 13 ge and frequency shall be 4160 iz within 13 seconds** after the is synchronized, and then loaded ordance with the
All planned diese surveillance test from ambient conceptor *All planned diese surveillance test from ambient conceptor the start	transferring unit power sup nate circuit. the above required diesel g once per 31 days on a <u>STAGG</u> fying the fuel level in the fying the fuel level in the fying the fuel transfer pum storage system to the day f fying the diesel starts fro lerates to 900 rpm +5%, -2% nds". The generator voltag volts and 60 + 3.0, -1.2 H t signal. Fying the diesel generator 400 kW to 2600 kW" in acco facturer's recommendations,	penerators shall be demonstrated <u>ERED TEST BASIS</u> by: <u>a day fuel tank.</u> e fuel storage tank. p starts and transfers fuel from Tuel tank. m ambient condition and in less than or equal to 13 ge and frequency shall be 4160 Iz within 13 seconds** after the is synchronized, and then loaded ordance with the
At least of a. At least of <u>SR3.8.3.1</u> 1. Verify R3.83.1 2. Verify 3. Verify 4. Verify accel second ±150 start 5. Verify to 24 manufat least *All planned diese surveillance requires *Surveillance test from ambient concounts other engine start	once per 31 days on a <u>STAGG</u> fying the fuel level in the fying the fuel level in the fying the fuel transfer pum storage system to the day f fying the diesel starts fro lerates to 900 rpm +5%, -2% nds". The generator voltag volts and 60 + 3.0, -1.2 H t signal. fying the diesel generator 400 kW to 2600 kW" in acco facturer's recommendations,	ERED TEST BASIS by: a day fuel tank. be fuel storage tank. the fuel storage tank. the starts and transfers fuel from tuel tank. to ambient condition and to in less than or equal to 13 ge and frequency shall be 4160 lz within 13 seconds** after the the synchronized, and then loaded ordance with the
At least of a. At least of <u>SR3.8.3.1</u> 1. Verify R3.83.1 2. Verify 3. Verify 4. Verify accel second ±150 start 5. Verify to 24 manufat least *All planned diese surveillance requires *Surveillance test from ambient concounts other engine start	once per 31 days on a <u>STAGG</u> fying the fuel level in the fying the fuel level in the fying the fuel transfer pum storage system to the day f fying the diesel starts fro lerates to 900 rpm +5%, -2% nds". The generator voltag volts and 60 + 3.0, -1.2 H t signal. fying the diesel generator 400 kW to 2600 kW" in acco facturer's recommendations,	ERED TEST BASIS by: a day fuel tank. be fuel storage tank. the fuel storage tank. the starts and transfers fuel from tuel tank. to ambient condition and to in less than or equal to 13 ge and frequency shall be 4160 lz within 13 seconds** after the the synchronized, and then loaded ordance with the
SR3.8.3.1 I. Verify Nv3 DG, only 1. Verify R3.83.1 2. Verify 3. Verify 3. 4. Verify accel secon ±150 starty 5. Verify manufact at left to 24 manufact surveillance *All planned diese surveillance surveillance test from ambient concord other engine	fying the fuel level in the fying the fuel level in the fying the fuel transfer pum storage system to the day f fying the diesel starts fro lerates to 900 rpm +5%, -2% nds". The generator voltag volts and 60 + 3.0, -1.2 H t signal. fying the diesel generator 400 kW to 2600 kW" in acco facturer's recommendations,	e day fuel tank. e fuel storage tank. p starts and transfers fuel from uel tank. om ambient condition and in less than or equal to 13 ge and frequency shall be 4160 lz within 13 seconds** after the is synchronized, and then loaded ordance with the
All planned diese surveillance requ recommended by th *Surveillance test from ambient conc other engine star	fying the fuel level in the fying the fuel transfer pum storage system to the day f fying the diesel starts fro lerates to 900 rpm +5%, -2% nds". The generator voltag volts and 60 + 3.0, -1.2 H t signal. fying the diesel generator 400 kW to 2600 kW" in acco facturer's recommendations,	e fuel storage tank. p starts and transfers fuel from uel tank. m ambient condition and in less than or equal to 13 ge and frequency shall be 4160 lz within 13 seconds** after the is synchronized, and then loaded ordance with the
*All planned diese surveillance requ recommended by th *Surveillance test from ambient conc other engine star	fying the fuel transfer pum storage system to the day f fying the diesel starts fro lerates to 900 rpm +5%, -2% nds". The generator voltag volts and 60 + 3.0, -1.2 H t signal. fying the diesel generator 400 kW to 2600 kW" in acco facturer's recommendations,	up starts and transfers fuel from Tuel tank. Im ambient condition and in less than or equal to 13 ge and frequency shall be 4160 Iz within 13 seconds** after the is synchronized, and then loaded prdance with the
All planned diese surveillance requ recommended by th Surveillance test from ambient conc other engine star	storage system to the day f fying the diesel starts fro lerates to 900 rpm +5%, -2% nds". The generator voltag volts and 60 + 3.0, -1.2 H t signal. fying the diesel generator 400 kW to 2600 kW"" in acco facturer's recommendations,	uel tank. om ambient condition and in less than or equal to 13 ge and frequency shall be 4160 Iz within 13 seconds** after the is synchronized, and then loaded ordance with the
All planned diese surveillance requ recommended by th Surveillance test from ambient conc other engine star	lerates to 900 rpm +5%, -2% nds". The generator voltag volts and 60 + 3.0, -1.2 H t signal. fying the diesel generator 400 kW to 2600 kW" in acco Facturer's recommendations,	G in less than or equal to I3 ge and frequency shall be 4160 Iz within 13 seconds** after the is synchronized, and then loaded ordance with the
to 24 manufat le *All planned diese surveillance requ recommended by th "Surveillance test from ambient conc other engine star	100 kW to 2600 kW ²⁰ in acco Facturer's recommendations,	ordance with the
surveillance requ recommended by th "Surveillance test from ambient conc other engine star	192 VV MINESSO	
requirements may procedures, as re mechanical stress	lirements may be preceded by the manufacturer. ing to verify the diesel ge ditions shall be performed rts performed for the purpo be conducted in accordance accommended by the manufactu and wear on the diesel gene	d for the purpose of meeting these by an engine prelube period, as enerator start (13 second) time at least once per 184 days. All use of meeting these surveillance with warmup and loading urer, in order to minimize erator caused by fast starting of ot invalidate the surveillance
LA SALLE - UNIT 1	3/4 8-3	Amendment No. 1

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ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS

Verifying the diesel generator ts aligned to provide standby (6. 72.10 power to the associated emergency busses Movelto 7. Verifying the pressure in required diesel generator air start A.3 ITS 3.8.3 receivers to be greater than or equal to 200 psig. 12.11 At least once per 31 days and after each operation of the diesel SR 3.8.1.5 where the period of operation was greater than or equal to I hour by checking for and removing accumulated water from the day fuel tanks. 1A.3 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 1. 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 2. 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. LD.1 At least once per (B) months during shutdown by: d. its associated single A.12 (Not used). 1. largest post-accident lad Verifying the diesel generator capability to reject a load of greater than or equal to 1190 kW for diesel generator 0, LA.5 greater than or equal to 638 kW for diesel generators 1A and 2A, and greater than or equal to 2421 kW for diesel SR 3.8.1.9 generator 18 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 (Add proposed SR 3.8.1.9 NOTE) less. A.1 (Add proposed SR3.8.1.10 NOTE) Verifying the diesel generator capability to reject a load of SR 3.8.1.10 2600 kW without tripping. The generator voltage shall not A.12 exceed 5000 volts during and following the load rejection. Simulating, a loss of offsite powert by itself, and: L12 SR 3.8.1.11 \$ 4. toractue) $\frac{5R3.8.14}{Note}$ 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. .A: 3/4 8-4 LA SALLE - UNIT I Amendment No. 109 Page 7 of 28



IT5 3.8.3

SURVEILLE	INCE REQUIREMENTS
	6. Verifying the diesel generator is aligned to provide standby power to the associated emergency busses.
SR 3.8.3.3	 Verifying the pressure in required diesel generator air start receivers to be greater than or equal to 200 psig.
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 SR 3.8.5.2 checking for and removing accumulated water from the day fuel tanks.
¢.	By sampling and analyzing stored and new fuel oil in accordance with the following: $A.H$
	1. 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. 44
	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.
1.	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 1B 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.
	 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:
these su	ed diesel generator starts performed for the purpose of meeting rveillance requirements may be preceded by an engine prelube period, mended by the manufacturer.
LA SALLE -	
	[TJ 3.8.1]
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SURVEILLANCE	REQUIREMENTS	SeelTS J.8.1)
6.	Verifying the diesel generator is aligned to provide standby power to the associated emergency busses.	
A.T. 7.	Verifying the pressure in required diesel generator air start receivers to be greater than or equal to 200 psig.	
Property 1 \ t whe	least once per 31 days and after each operation of the diesel are the period of operation was greater than or equal to 1 hour by acking for and removing accumulated water from the day fuel tanks.	
5.5.10.a,b,c the	sampling and analyzing stored and new fuel oil in accordance with following:	LI
5.5 k. a 1.	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
FTS 5.5.10. a.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
515101 c 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 (ess that 10 mg/l when tested in accordance with the applicable ASTM Standard.	appearance with proper color
d. At	least once per 18 months during shutdown by:	• • • • • •
	(Not used).	\setminus
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 1B 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:	
\ these surveil	iesel generator starts performed for the purpose of meeting lance requirements may be preceded by an engine prelube period, d by the manufacturer.)
LA SALLE - UNI	× 240 113 2.8.1)	(A.7)
to the Dies	el Fuel Oil Testing Program terting frequencies,	8.0f29

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ITS 5.5

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ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued) SR 3.8.1.11 For Divisions 1 and 2 and for Unit 2 Division 2: a) Verifying de-energization of the emergency busses and 1) load shedding from the emergency busses. 2) Verifying the diesel generator starts on the autostart signal, energizes the emergency busses with start 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. For Division 3: , b) 1) Verifying de-energization of the emergency bus. Verifying the diesel generator starts on the auto-start 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 2) M_{1} loaded. After energization, the steady-state voltage and frequency of the emergency bus shall be maintained at 4160 \pm 150 volts and 60 \pm 1.2 Hz during this test. L.12 or actual Verifying that on an ECCS actuation test signal, without loss of offsite power, diesel generators 0, 1A, and 1B 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 <u>4160</u> <u>-150 volts and 60</u> <u>-3-00</u> -1.2 Hz within 13 seconds after the auto-start signal; the steady-state generator voltage and frequency shall be maintained within <u>Chesp limits during this test</u>. 5. SR 3.8.1.12 L.9 Simulating a loss of offsite power in conjunction with an ECCS 6. SR 3.8.1.19 (actuation test signal, * and: Actual or 12 For Divisions 1 and 2: a) Verifying de-energization of the emergency busses and 1) load shedding from the emergency busses. 523.8.1.12 (*All planned diesel generator starts performed for the purpose of meeting Note and) these surveillance requirements may be preceded by an engine prelube period, 583.8.1.19 as recommended by the manufacturer. Note LA SALLE - UNIT 1 3/4 8-5 Amendment No. 97 Page 8 of 28

SURVEILLANCE REQUIREMENTS (Continued)

583.8,1,19 2) 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 Sequences and operates for greater than or equal to A.6 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 ±416 volts and 60 ±1.2 Hz during this test. 150 M.01b) For Division 3: 1) Verifying de-energization of the emergency bus. 2) Verifying the diesel generator starts on the auto-start signal, energizes the emergency bus with (its)loads M.) 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 ±516 volts and 60 ±1.2 Hz M.11 during this test. 150 .12 Verifying that all diesel generator 0, 1A, and 1B automatic trips except the following are automatically bypassed on an ECCS actuation signal: Tactual or simulated SR 3.8.1.13 1A.131 AI a) For Divisions 1 and 2 - engine (overspeed, generator differential current, and emergency manual stop. A.12 b) For Division 3 - engine (overspeed, generator differential current, and emergency admual stop) (Ad) power-tactor requirement Ad proposed SR 3.8.1.14 Note 3) Verifying the diesel generator operates for at least 24 hours. During the first 2 hours of this test, the diesel generator M.10 423.8.1.14 shall be loaded to greater than or equal to 2860 kW and during the remaining 22 hours of this test, the diesel generator shall be loaded to 2400 kW to 2600 kW. *** The generator voltage and frequency shall be 4160 +420, -150 volts and 60 +3,0, -1.2 Hz ..13 within 13 seconds after the start signal: the steady state A.12

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*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." Note:: tests.

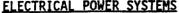
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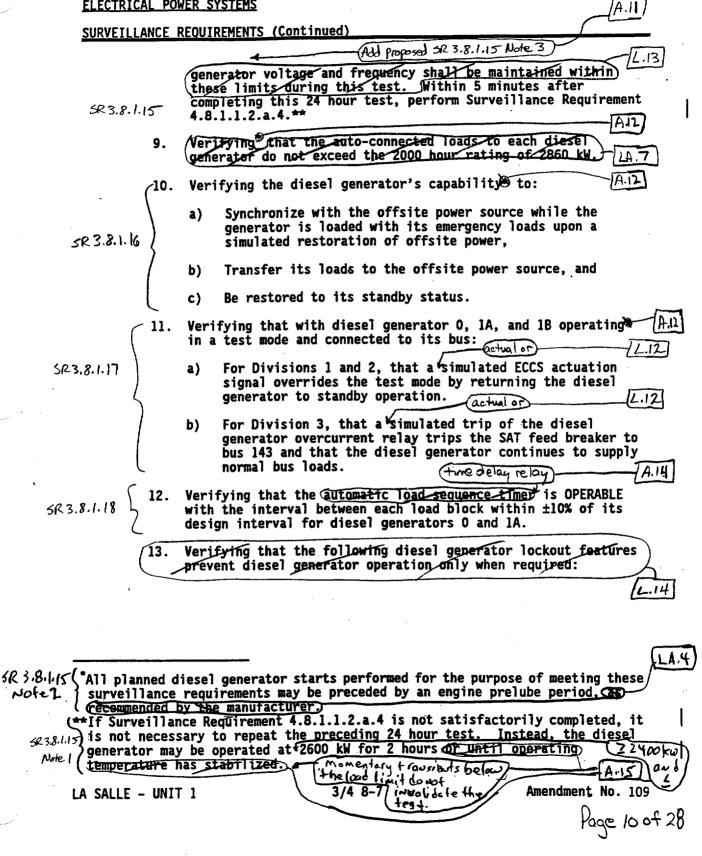
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ITS 3.8.1







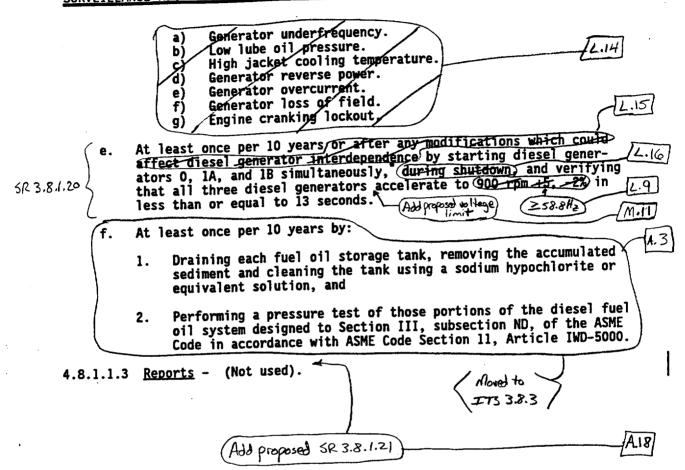
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A.1

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)



SP3.8.1.20 All planned diesel generator starts performed for the purpose of meeting these surveillance requirements may be preceded by an engine prelube period recommended by the manufacturer.

LA SALLE - UNIT 1

SURVEILLANCE REQUIREMENTS (Continued)

Generator underfrequency. Low lube oil pressure. b) High jacket cooling temperature. C) Generator reverse power. d) Generator overcurrent. e) Generator loss of field. f Engine cranking lockout. g) At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting diesel generators 0, 1A, and 1B simultaneously, during shutdown, and verifying that all three diesel generators accelerate to 900 rpm +5, -2% in less than or equal to 13 seconds. 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 L.S equivalent solution, and Performing a pressure test of those portions of the diesel fuel 2. 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 <u>Reports</u> - (Not used).) (See 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. Amendment No. 109 3/4 8-7a LA SALLE - UNIT 1

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ITS 3.8.3

A.I

ELECTRICAL POWER SYSTEMS A.C. SOURCES - SHUTDOWN LIMITING CONDITION FOR OPERATION LCO 3.8.2 3.8.1.2 As a minimum, the following A.C. electrical power sources shall be m, **OPERABLE:** M. 2 (One circuit between the offsite transmission network and the onsite LCO 3.8, Z.a a. Class IE distribution system, and Diesel generator 0 or 1A, and diesel generator 1B when the HPCS system is required to be OPERABLE, and diesel generator 2A when the b. LCO 3.8.2.6 offsite power source for standby gas treatment system subsystem B or LCO 3.8.7.C control room and auxiliary electric equipment room emergency filtra-LCO 3.8.2.d tion system train B is inoperable and either or both systems are required to be OPERABLE, with each diesel generator having: For diesel generator 0, 1A and 2A: SR 3,6.2.1 A.2 A separate day fuel tank containing a minimum of 250 gallons a) of fuel. oved to **b**) "A separate fuel storage system containing a minimum of JT53.83 31,000 gallons of fuel. For diesel generator 18, a separate fuel storage tank/day tank/A.2 2. M.3 SR 3, 8. 21) containing a minimum of 29,750 gallons of fuel. (550gattons office) AA A.2 3. A fuel transfer pupp. A.4 APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and *. M.1 Add proposed ACTION & Note Add proposed Required Action A. 1 ACTION: With all offsite circuits inoperable and/or with diesel generators 0 2. ACTIONS or 1A inoperable, suspend CORE ALTERATIONS, handling of irradiated AANOB fuel in the secondary containment and operations with a potential for draining the reactor vessel, M.4 (Add Required Actions A.Z.Y and B.Y With diesel generator 1B inoperable, restore the inoperable diesel ь. ACTION C generator 1B to OPERABLE status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specification A.5 3.5, 2 and 3.5.3

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Applicability When handling irradiated fuel in the secondary containment.

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ITS 3.8.2

ELECIKIC	AL POWER SYSTEMS
A.C. SOUL	RCES - SHUTDOWN A.I
	add proposed fuel oil storage ITS 3.8.
LIMITING	CONDITION FOR OPERATION (tonk and starting air LCO)
←	
3.8.1.2 OPERABLE:	As a minimum, the following A.C. electrical power sources shall be :
2.	One circuit between the offsite transmission network and the onsite Class IE distribution system, and
b.	Diesel generator 0 or 1A, and diesel generator 1B when the HPCS system is required to be OPERABLE, and diesel generator 2A when the offsite power source for standby gas treatment system subsystem B or control room and auxiliary electric equipment room emergency filtra- tion system train B 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.
8.3.1	2. For diesel generator 1B, a separate fuel storage tank/day tank containing a minimum of 29,750 gallons of fuel.
	-(3. A fuel transfer pump.)
	ILITY: OPERATIONAL CONDITIONS 4, 5, and *.)
ACTION:	
a .	With all offsite circuits inoperable and/or with diesel generators 0 or 1A inoperable, suspend CORE ALTERATIONS, handling of irradiated fuel in the secondary containment and operations with a potential for draining the reactor vessel.
b.	With diesel generator IB inoperable, restore the inoperable diesel generator IB to OPERABLE status within 72 hours or declare the HPCS system inoperable and take the ACTION required by Specification 3.5.2 and 3.5.3.
When ha	ndling irradiated fuel in the secondary containment.
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	ELECTRICAL POWER SYSTEMS
	LIMITING CONDITION FOR OPERATION (Continued)
ACTION	ACTION required by Specifications 3.6.5.3 and 3.9.2.
· ACTION NOTE	
	SURVEILLANCE REQUIREMENTS Rold Proposed SR 3.8.2.1 Note 2 [.2]
SR 3.8.2.1 SR 3.8.2.1 NOTE 1	4.8.1.2 At least the above required A.C. electrical power sources shall be 1 A.6 demonstrated OPERABLE per Surveillance Requirements (4.8.1.1.1; 4.8.1.1.2 m) A.3 (.8.1.1.3) except for the requirement of 4.8.1.1.2 a.5. Movement of certain requirements to TTS 3.8.3
	Add exception to CTS SR 4.8.1.1.2. d.11 (1.c., ITS SR 3.8.1.17) Add exception to CTS SR 4.8.1.1.2. d.11 (1.c., ITS SR 3.8.1.17)
	Add exception to CTS SR 4.8.1.1.2. e Li.e., ITS SR381.20)

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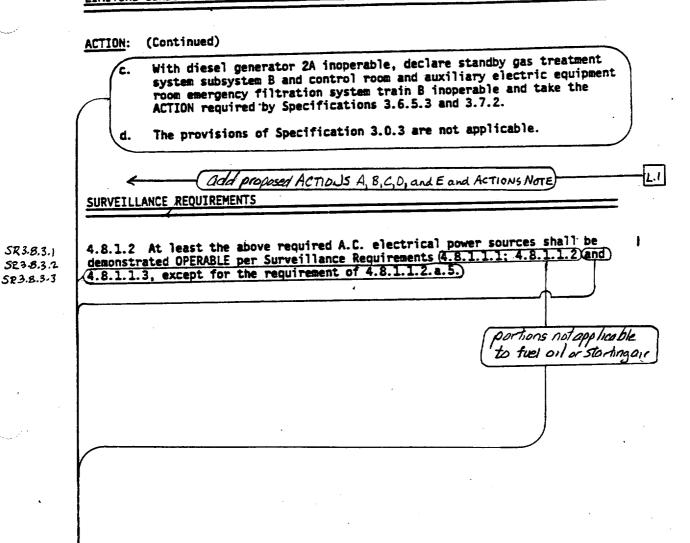
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LIMITING CONDITION FOR OPERATION (Continued)

ITS 3.8.3



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(See ITS 3.8.2)

LA SALLE - UNIT 1

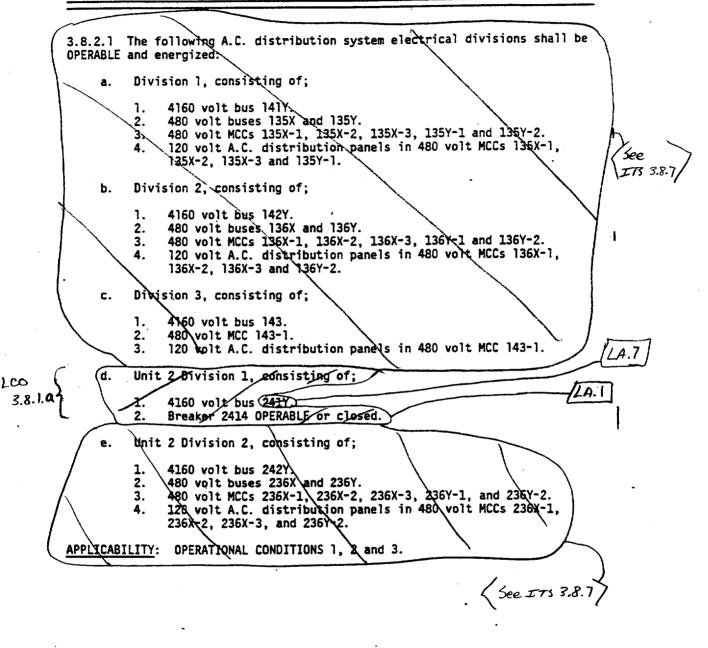
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3/4.8.2 ONSITE POWER DISTRIBUTION SYSTEMS

A. C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION



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ITS 3.8.7

ELECTRICAL POWER SYSTEMS

3/4.8.2 ONSITE POWER DISTRIBUTION SYSTEMS

A. C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION

60 3.8.2.1 The following A.C. distribution system electrical divisions shall be OPERABLE (and energized) 3,8,7 LA.I Division 1, consisting of; a. 4160 volt bus 147Y. 480 volt buses 135X and 135Y. 480 volt MCCs 135X-1, 135X-2, 135X-3, 135Y-1 and 135Y-2. 120 volt A.C. distribution panels in 480 volt MCCs 125X-1, 2. 1 3. 4. 135X-2, 135X-3 and 135X-1. b. Division 2, consisting of LAN 4160 volt bus 142Y. 480 volt buses 136X and 136Y 2. A80 volt MCCs 136X-1, 136X-2, 136X-3, 136Y-1 and 136Y-2. 120 volt A.2. distribution panels in 480 volt MCCs 136X-7, 3. 4 136X-2, 136X-3 and 136Y/2. Division 3, Consisting of с. 4160 volt bus 143 1. 480 volt MCC 143-1. 2. 720 volt A.C. fistribution panels in 480 volt MCC 143-1. 3. moved to ITS 3.8.1 Unit 2 Division 1, consisting of; A.2 4160 volt bus 241Y. 1. Breaker 2414 OPERABLE or closed. Unit 2 Division 2, consisting of; e. #160 volt bus 242¥ LA. 480 volt buses 276X and 236Y. 480 volt MCCs 286X-1, 236X-2, 236X-3, 236Y-1, and 236Y-2. 120 wolt A.C. /distribution pagels in 480 wolt /CCs 236X-1, 236X-2, 236X/3, and 236Y-2. APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3. add proposed description of equipment required A.5 to be supported by opposite unit bus

LA SALLE - UNIT 1

3/4 8-10

ITS3.8.1

ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

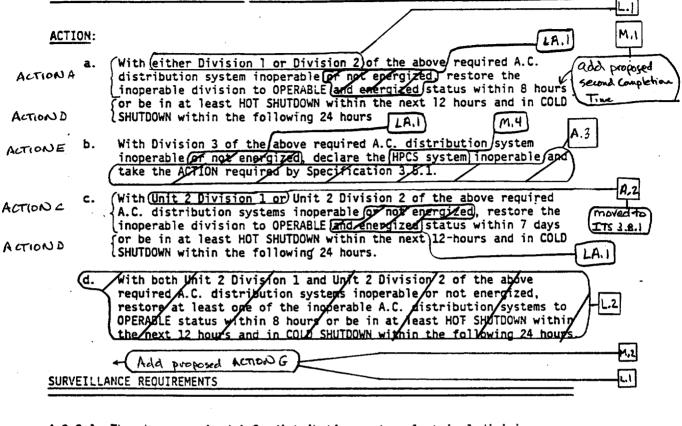
ACTION: With either Division 1 or Division 2 of the above required A.C. a. distribution system inoperable or not energized, restore the See ITS inoperable division to OPERABLE and energized status within 8 hours 3.8.7 or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours With Division 3 of the above required A.C. distribution system Ь. inoperable or not energized, declare the HPCS system inoperable and take the ACTION required by Specification 3.5.1. c. (With Unit 2 Division 1 or Unit 2 Division 2) of the above required A.C. distribution systems inoperable or not energized, restore the linoperable division to OPERABLE and energized status within (7 days ACTIONA A.17 AcTION G _ Sor be in at least HOT SHUTDOWN within the next 12 hours and in COLD _ SHUTDOWN within the following 24 hours. With both Unit 2 Division 1 and Unit 2 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 1

3/4 8-11

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LIMITING CONDITION FOR OPERATION (Continued)



5R 4.8.2.1 The above required A.C. distribution system electrical divisions shall be determined OPERABLE and pregized at least once per 7 days by verifying 3.8.7.1 correct breaker alignment and voltage on the busses/panels.

LA SALLE - UNIT 1

3/4 8-11

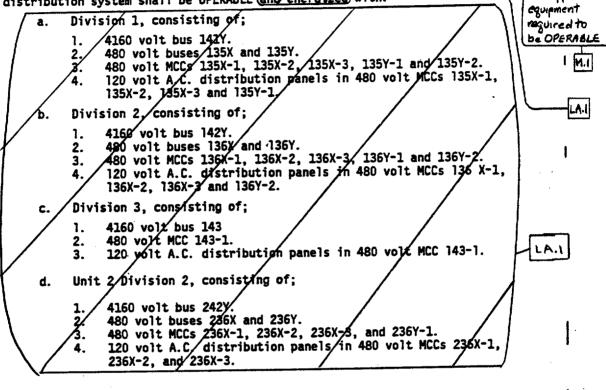
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LA.1

A.C. DISTRIBUTION - SHUTDOWN

LIMITING CONDITION FOR OPERATION

LCO 3.8.8 3.8.2.2 As a minimum, Division 1 Or Division 2, and Division 3 when the HPCS system is required to be OPERABLE, and Unit 2 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:



APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and *.

APPLICABILITY "When handling irradiated fuel in the secondary containment.

LA SALLE - UNIT 1

3/4 8-12

Amendment No. 18

Page 1 of 8

ITS 3,8.8

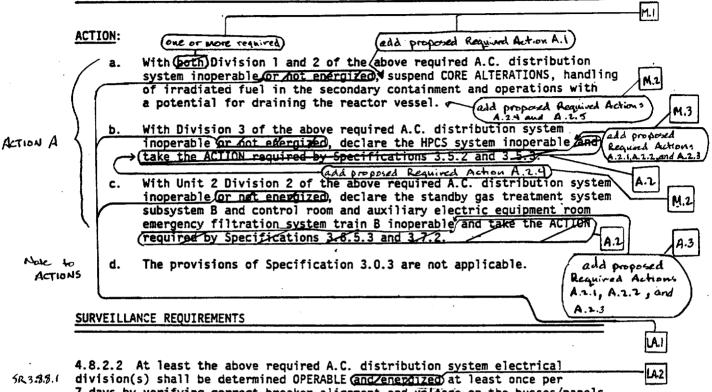
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TTS 3.8.8

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ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

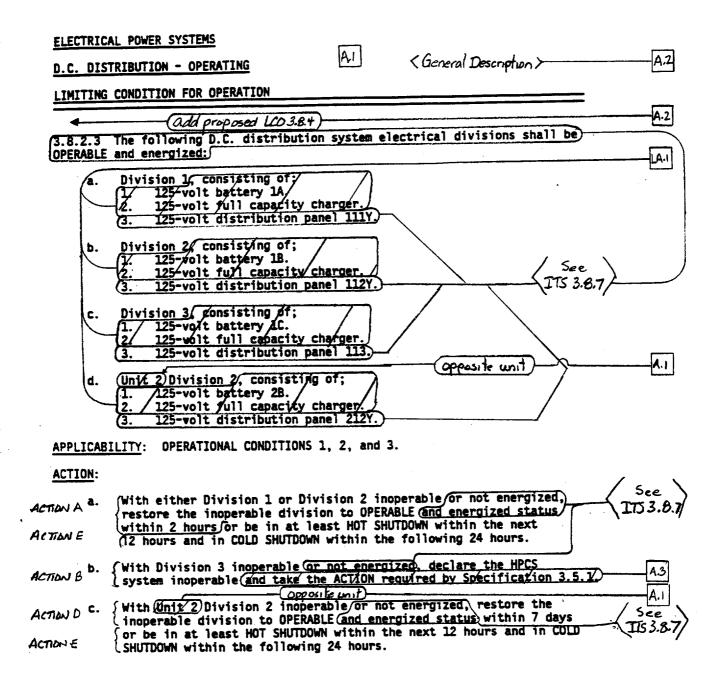


7 days by verifying correct breaker alignment and voltage on the busses/panels.

LA SALLE - UNIT 1

3/4 8-13

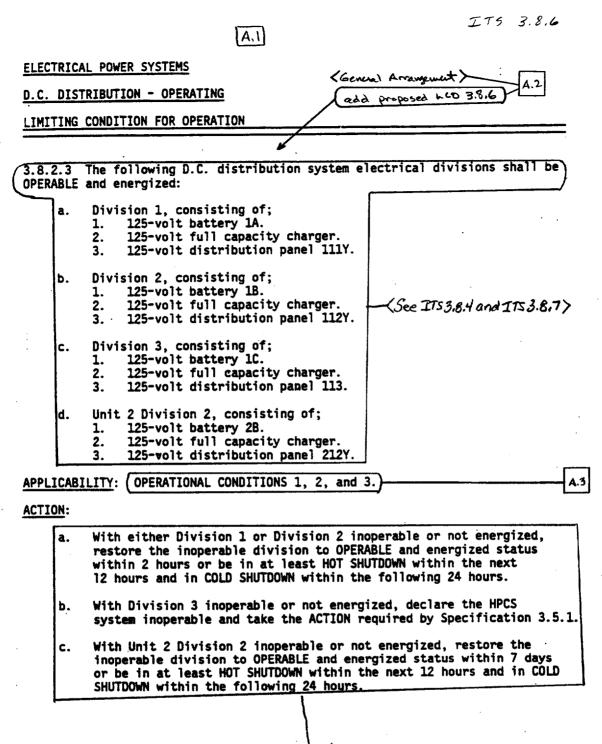
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LASALLE-UNIT 1

3/4 8-14

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Cee ITS 3.8.4 and ITS 3.8.7 >

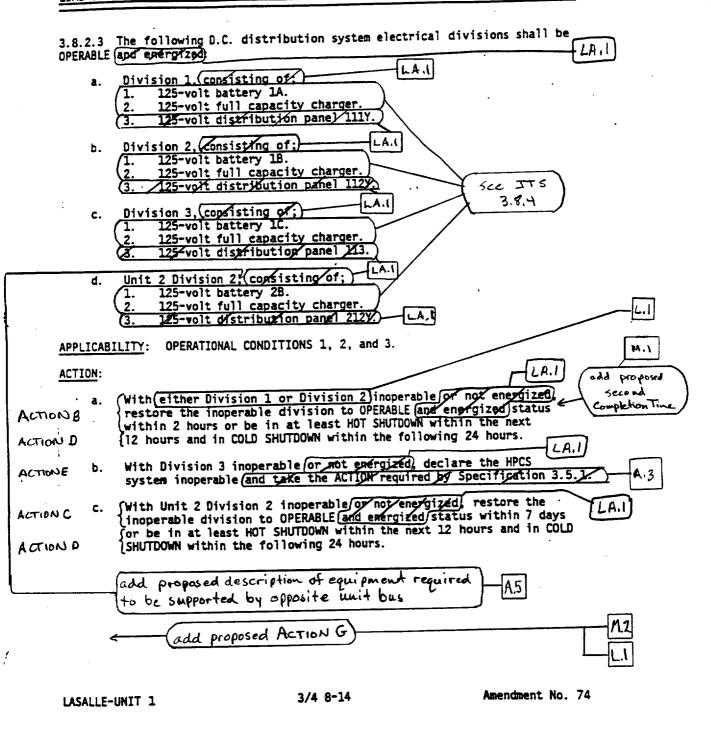
LASALLE-UNIT 1

3/4 8-14

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D.C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION



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ITS 3.8.7

1. A

		ITS 3.8.	4
EL	ECTRIC	CAL POWER SYSTEMS A.I.	
SU	RVEILL	LANCE REQUIREMENTS	_
din by chi	vision verif arger	.1 Each of the above required D.C. distribution system electrical hs shall be determined OPERABLE and energized at least once per 7 days fying correct breaker alignment, indicated power availability from the and battery, and voltage on the panel with an overall voltage of than or equal to 125 volts.	
4.8	B.2.3.	2 Each 125-volt battery and charger shall be demonstrated OPERABLE:	
	(4.	At least once per 7 days by verifying that:	A.2
3.4. I		1. The parameters in Table 4.8.2.3.2-1 meet the Category A limit: and	moveal 1 Frs 3.8.0
		 Total battery terminal voltage is greater than or equal to 126 volts on float charge. 	
	б.	At least once per 92 days and within 7 days after a battery dischar (with battery voltage below 110 volts, or battery overcharge with bettery terminal voltage above 250 volts, by verifying that:	moved to
1.4.2	ł	. 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 connector or the connection resistance of these items is less than 150×10^{-6} ohm, and	, i i i i i i i i i i i i i i i i i i i
		3. The average electrolyte temperature of at least 10 connected cells is above 60°F.	A.2 moved to ITS 3.8.6
	c.	At least once per (18) months by verifying that:	
9.4.3	_	 The cells, cell plates and battery racks show no visual indication of physical damage or abnormal deterioration, 	
8.4.4		 The cell-to-cell and terminal connections are cient, tight, free of corrosion and coated with anti-corrosion material, 	L.2
8.4.5		3. The resistance of each cell and terminal connection is less than or equal to 150×10^{-6} ohm, and	
46		4. The battery charger will supply a load equal to the manufacturer's rating for at least the hours.	
		€	[17]

LASALLE-UNIT 1

3/4 8-15

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ITS 3.8,6

(See ITS 3.8.4)

6.1

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ELECTRICAL POWER SYSTEM	m > .	
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SURVEILLANCE REQUIREMENTS

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, 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 charge) shall be demonstrated OPERABLE:

a. At least once per 7 days by verifying that:

5R 3.8.6.1

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 yolts 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:

SR 3.8.6.2

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 x 10^{-6} ohm, and

SR 3.8.6.3

6.3 3. The average electrolyte temperature of <u>at least 10</u> connected cells is <u>above</u> 60°F. <u>(representative)</u>

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 anti-corrosion material,
- 3. The resistance of each cell and terminal connection is less than or equal to 150×10^{-6} 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 1

3/4 8-15

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SURVEILLANCE REQUIREMENTS

4.8.2.3.1 Each of the above required D.C. distribution system electrical 583.8.7.1 LA.1 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 bettery, and voltage on the panel with an overall voltage of greater than or equal to 125 volts. LA.2 4.8.2.3.2 Each 125-volt battery and charger shall be demonstrated OPERABLE: At least once per 7 days by verifying that: 1. The parameters in Table 4.8.2.3.2-1 meet the Category A limits. and 2. Total battery terminal voltage is greater than or equal to 128 volts on float charge. ь. 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 150×10^{-10} (See ITS 3.8.4) 10^{-6} ohm, and 3. The average electrolyte temperature of at least 10 connected cells is above 60°F. с. At least once per 18 months by verifying that: 1. 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, 2. free of corrosion and coated with anti-corrosion material. 3. The resistance of each cell and terminal connection is less than or equal to 150×10^{-6} ohm, and 4. The battery charger will supply a load equal to the manufacturer's rating for at least 8 hours.

LASALLE-UNIT 1

3/4 8-15

Amendment No. 74

TTS 3.8.7

4.1

ITS 3.8.4

SURVEILLANCE REQUIREMENTS (Continued)

(24 ٨. At least once per (months during shutdown,) by verifying that the d. .3 battery capacity is adequate to supply and maintain in OPERABLE SR3.8.4.7 status all of the actual or simulated emergency loads for the 240/minute design cyrle when the battery is subjected to a battery service test. (For the design duty cycle .3 At least once per 60 months, during shutdown,) by verifying that the battery capacity is at least 80% of the manufacturers rating when SR3.8.4.8 subjected to a performance discharge test. Once per 50 month interval Note to SR3.8.4.7 : battery service test! Or modified performance discharge test (modified) 1.4 f. Annual performance discharge tests of battery capacity shall be given to any battery that shows signs of degradation or has reached B5% of the service life expected for the application: Degradation 5R3.8.4.8 is indicated when the battery capacity drops more than 10% of rated capacity from its average on previous performance tests, or is below 90% of the manufacturer's rating. LA3 with apacity <100% of manufacturer's rating add proposed SR3.8.4.9 and Notes to SRs L.6 (add proposed 3rd frequency A.5

A.1

LASALLE-UNIT 1

3/4 8-16

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A.1]

JTS 3.8.4

ELECTRICAL POWER SYSTEMS

TABLE 4.8.2.3.2-1

.2

moved to

ITS 3.06

BATTERY SURVEILLANCE REQUIREMENTS

	CATEGORY A ⁽¹⁾ CATEGORY B ⁽²⁾		ORY 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 < 놯" above maximum level indication mark	>Minimum level indication mark, and < ¼" above maximum level indication mark	Above top of plates, and not overflowing
Float Voltage	<u>></u> 2.13 volts	≥ 2.13 volts ^(c)	> 2.07 volts
Specific	≥ 1.200 ^(b)	<u>></u> 1.195	Not more than .020 below the average of all connected cells
Gravity ^(a)	2 1.200	Average of all connected cells	Average of all connected cells
		> 1.205	≥ 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.

 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.
 For any Category B parameter(s) outside the limit(s) shown, the battery

(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.

LASALLE-UNIT 1

3/4 8-18

AMENDMENT NO. 82

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ITS 3.8.6

ELECTRICAL POWER SYSTEMS

IA.I

Table 3.8.6-1 TABLE 4.8.2.3.2-1

BATTERY SURVEILLANCE REQUIREMENTS Category C CATEGORY B⁽²⁾ Category A Category B CATEGORY A (1) Allowable ⁽³⁾ Limits for each Limits for each Parameter connected cell value for each designated pilot connected cell cell Electrolyte >Minimum level >Minimum level Above top of indication mark, Leve] indication mark plates, and not and < 1/2" above and < ½" above maximum level overflowing maximum level indication marks indication marks 2.13 volts > 2.07 volts > 2.13 volts Float Voltage Not more than add proposed A.1 .020 below the footnote (a) average of all connected cells > 1.195 Liz ≥ 1.200^(b) Specific Gravity^(a) 🗲 Average of all Average of all connected cells connected cells L.3 ≥ 1.195(b) > 1.205 M.2 (add proposed footnote (1) Corrected for electrolyte temperature and level. Note(1)(a) Or battery charging current is less than 2 amperes when on float charge. Note(c) (b) 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 ACTION A provided all Category A and B parameter(s) are restored to within limits and proposed within the next **Adays**. 3 Litt Required Action (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 M.3 ALTION A their allowable values and provided the Category B parameter(s) are restored to within limits within adays. 3) ACTION B (3) Any Category B parameter not within its allowable value indicates an A.5 inoperable battery.

add proposed Action B for electrolytic temperature and Calegory A or B limits not restored

Actions Note

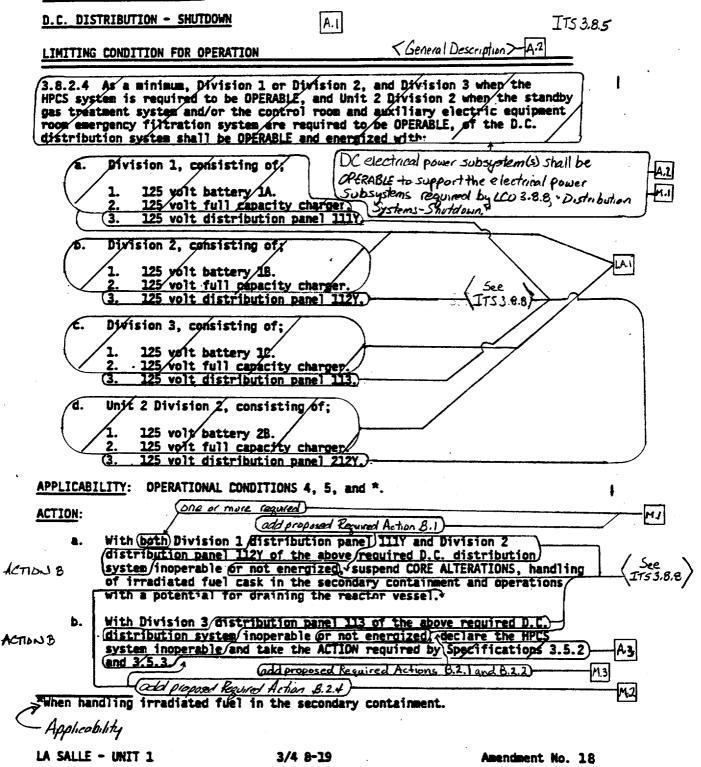
LASALLE-UNIT 1

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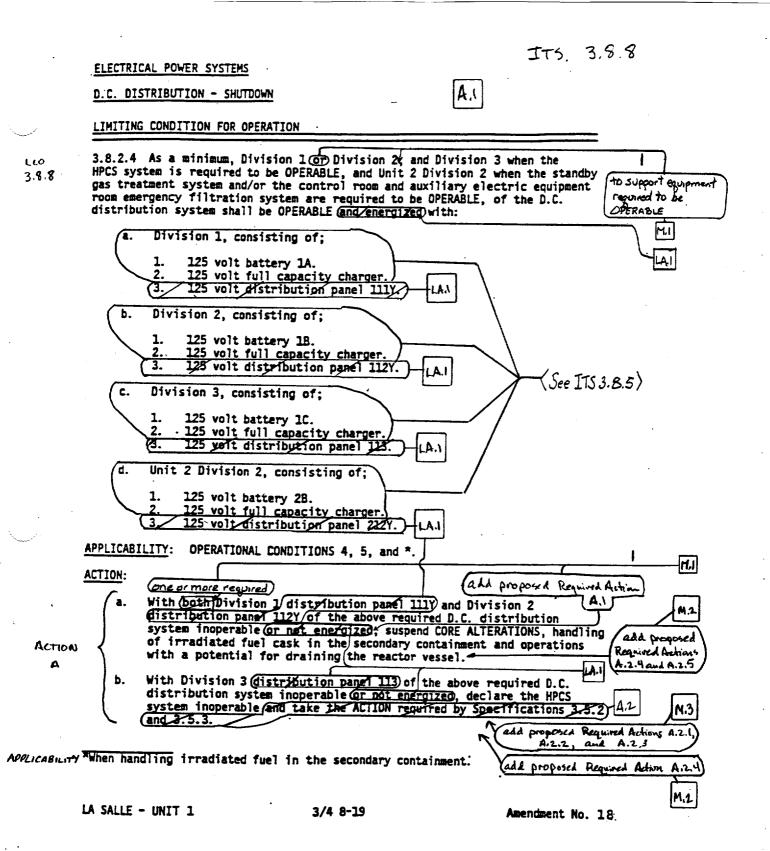
		AL	173 3.8.6
ELECTRICA	L POWER SYSTEMS	Arrangent	A 2.
D.C. DIST	RIBUTION - SHUTDOWN	A proposed LCO 3.8.6	
LIMITING	CONDITION FOR OPERATION		
HPCS syst gas treat	As a minimum, Division 1 or Divisi em is required to be OPERABLE, and ment system and/or the control roo gency filtration system are requir ion system shall be OPERABLE and e	Unit 2 Division 2 Wh m and auxiliary elect ed to be OPERABLE, of	ric equipment
/ a.	Division 1, consisting of;		
	 1. 125 volt battery 1A. 2. 125 volt full capacity charg 3. 125 volt distribution panel 		
þ.	Division 2, consisting of;		
	 1. 125 volt battery 1B. 2. 125 volt full capacity charg 3. 125 volt distribution panel 	112Y.	See ITS 3.8.5 and ITS 3.8.8>
с.	Division 3, consisting of;		000103.0,2 and 1133.0.0/
	 125 volt battery 1C. 125 volt full capacity charg 125 volt distribution panel 		
d.	Unit 2 Division 2, consisting of;		
	 125 volt battery 2B. 125 volt full capacity charg 125 volt distribution panel 	er. 212Y.	
APPLICABI	LITY: (OPERATIONAL CONDITIONS 4, 5	i, and *.)	3
ACTION:			
a.	With both Division 1 distribution distribution panel 112Y of the at system inoperable or not energize of irradiated fuel cask in the se with a potential for draining the	oove required D.C. dis ed, suspend CORE ALTER econdary containment a	ATIONS, handling
b.	With Division 3 distribution pane distribution system inoperable of system inoperable and take the Al and 3.5.3.	r not energized, decla	ire the HPCS
When har	ndling irradiated fuel in the second	ndary containment.)	A.3

LA SALLE - UNIT 1

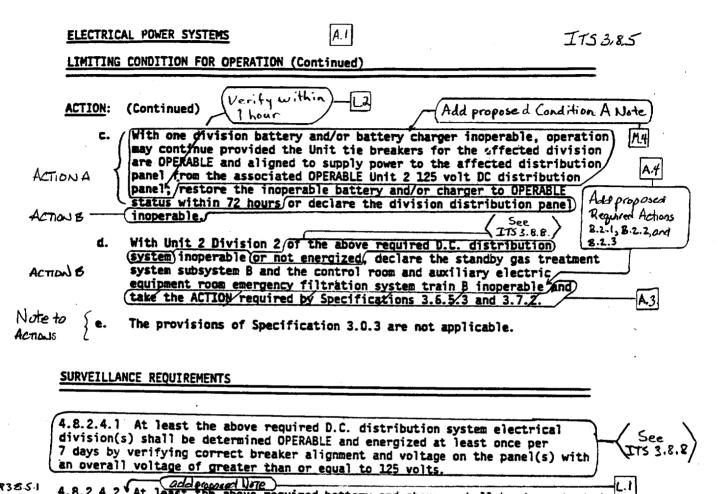
3/4 8-19

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SR32.5-1

add proposed Note 4.8.2.4.2 At least OPERABLE per Surveillance Requirement 4.8.2.3.2.

LA SALLE - UNIT 1

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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 effected division are OPERABLE and aligned to supply power to the affected distribution panel from the associated OPERABLE Unit 2 125 volt DC distribution panel; restore the inoperable battery and/or charger to OPERABLE status within 72 hours or declare the division distribution panel inoperable.

A.

d. With Unit 2 Division 2 of the above required D.C. distribution system inoperable or not energized, declare the standby gas treatment system subsystem B and the control room and auxiliary electric equipment room emergency filtration system train B 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 3.85 and ITS 3.8.8)-

<See ITS 3.8.8>

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 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

LA SALLE - UNIT 1

3/4 8-20

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A.2

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ITS 3.8.8

ELECTRICAL POWER SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued) With one division battery and/or battery charger inoperable, operation C. may continue provided the Unit tie breakers for the effected division the ITS are OPERABLE and aligned to supply power to the affected distribution panel from the associated OPERABLE Unit 2 125 volt DC distribution 3.8.5 panel; restore the inoperable battery and/or charger to OPERABLE status within 72 hours or declare the division distribution panel inoperable. d. With Unit 2 Division 2 of the above required D.C. distribution A.1 system inoperable (or/not energized, declare the standby gas treatment ACTION A system subsystem 8 and the control room and auxiliary electric equipment room emergency filtration system train B inoperable and 4.2 take the ACTION required by Specifications 3.6.5.3 and 3.7.2 · Note to add proposed Required Actions The provisions of Specification 3.0.3 are not applicable. A.2.1 A.2.2 A.2.3, and A.2.4 ACTIONS 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 3.8.8.1 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. A2 4.8.2.4.2 At least the above required battery and charger shall be demonstrated See ITSI OPERABLE per Surveillance Requirement 4.8.2.3.2. 3.8.5

LA SALLE - UNIT 1

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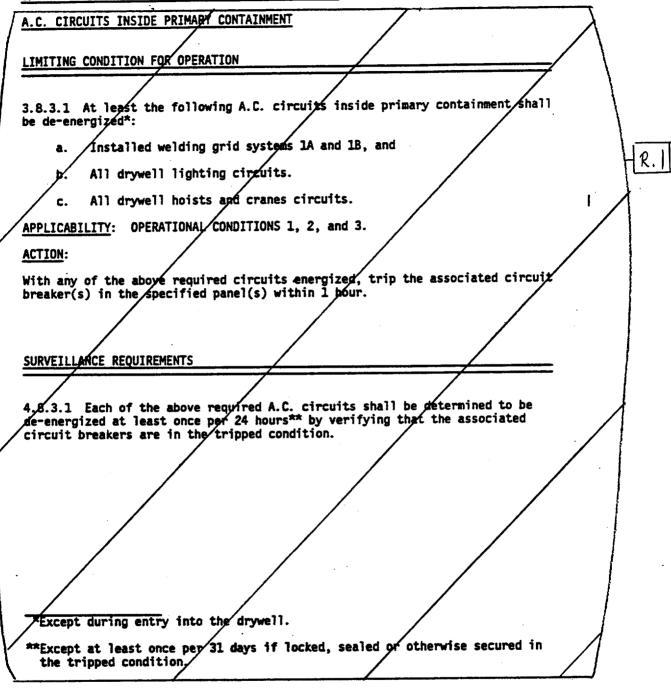
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CTS 3/4.8.3.1

ELECTRICAL POWER SYSTEMS

3/4.8.3 ELECTRICAL EQUIPMENT PROTECTIVE DEVICES



LA SALLE - UNIT 1

3/4 8-21

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ELECTRICAL POWER SYSTEMS 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 benetration design rating. APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3. ACTION: With one or more of the primary containment penetration conductor/overcurrent with one or more of the primary containment penetration conductor overcartene protective devices inoperable, restore the protective device(s) to OPERABLE status or de-energize the circuit(s) by tripping the associated circuit breaker or racking out or removing the inoperable circuit breaker within 72 hours, declare the affected system or component inoperable, and verify the R.I 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: At least once per 18 months: а. By verifying that the 6.9 kV and 4.16 kV circuit breakers 1. are OPERABLE by selecting, on a rotating basis, at least 10% of the circuit breakers and performing: A CHANNEL CALIBRATION of the associated/protective relays, a) and An integrated system functional test of the breakers b) 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. 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 c) type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.

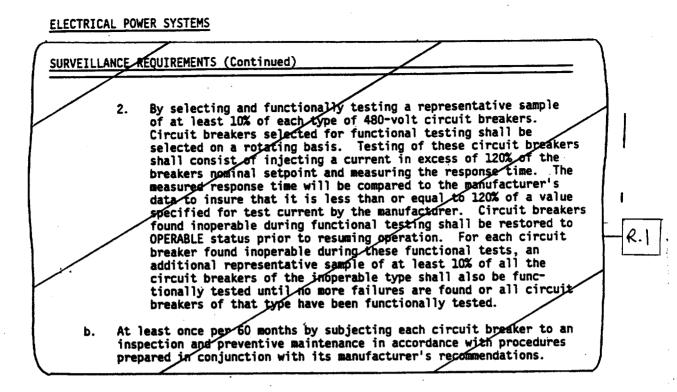
LA SALLE - UNIT 1

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CTS 3/4.8.3.2

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LASALLE-UNIT 1

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Amendment No. 42.

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CTS 3/4.8.3.3

ELECTRICAL POWER SYSTEMS

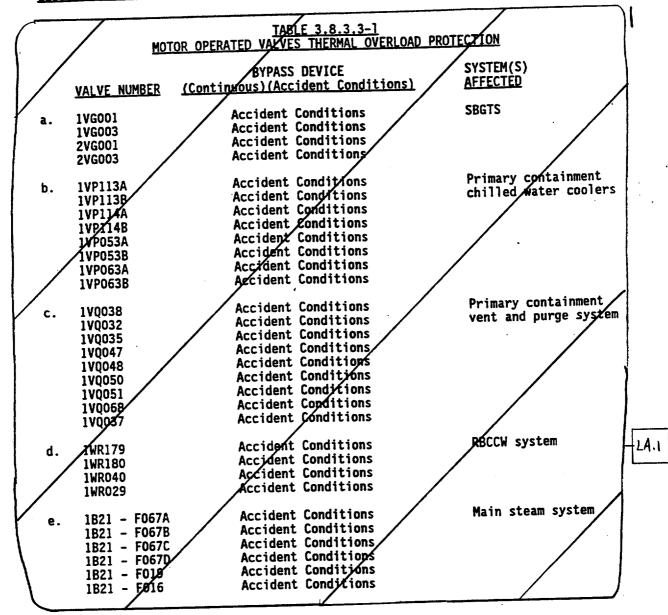
MOTOR OPERATED VALVES THERMAL OVERLEAD PROTECTION MITING CONDITION FOR OPERATION 3.8.3.3 The thermal overload protection of each valve shown in Table 3.8.3.3-1 shall be oppassed continuously or under accident conditions, as applicable, by an OPERABLE bypass device integral with the motor starter. APPLICABILITY: Whenever the motor operated value 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 LA. for those thermal overloads which are continuously bypassed and temporarily placed in force only when the valve motors are undergoing periodic or maintenance testing: At least once per 18 months, and a. Following maintenance on the motor starter, b. 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.

LA SALLE - UNIT 1

3/4 8-26

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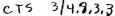
ELECTRICAL POWER SYSTEMS

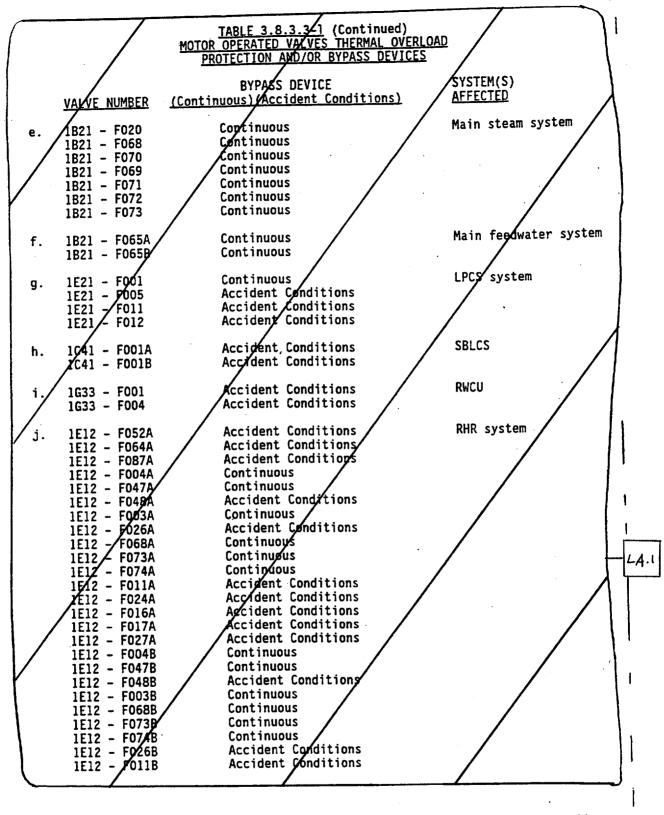


LA SALLE - UNIT 1

3/4 8-27

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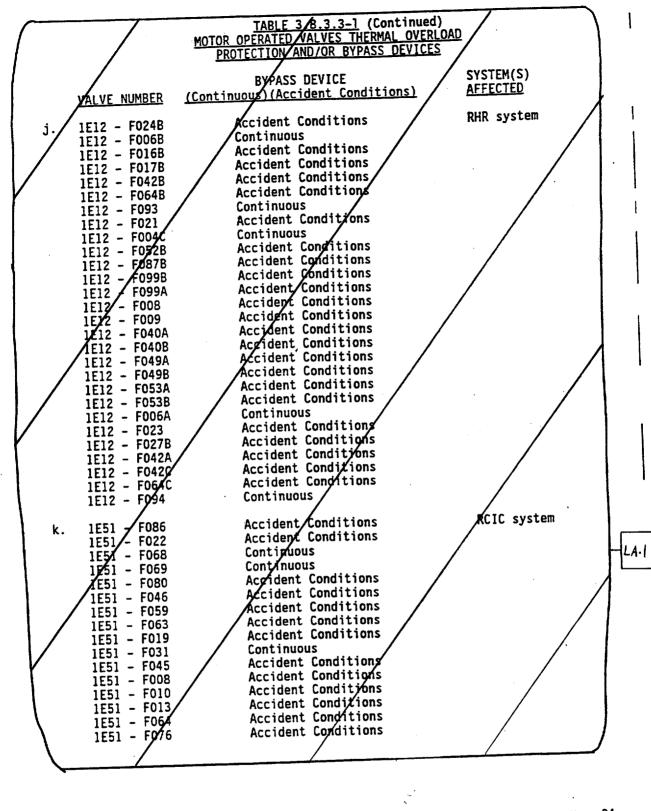


LA SALLE - UNIT 1

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CTS 3/4.8.3.3



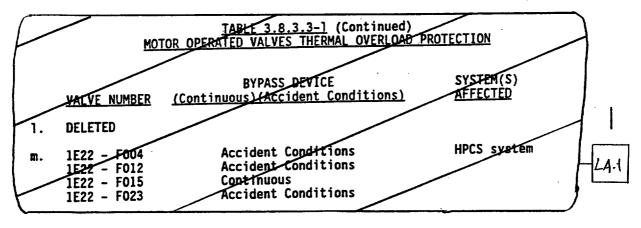
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CTS 3/4.8.3.3



LA SALLE - UNIT 1

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Amendment No. 112

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	•		ITS 3.3,8.2
	ELECTRICAL POWER SYSTEMS	AI	
	REACTOR PROTECTION SYSTEM ELECTRIC	CAL POWER MONITORING	
. <i>.</i>	LIMITING CONDITION FOR OPERATION		
LLO 3.3.8.2	. 3.8.3.4 Two RPS electric power mo MG set or alternate power supply s APPLICABILITY: (At all times.)	ponitoring assemblies for each in shall be OPERABLE.	service RPS
		_,] _	
	ACTION:		decomuico PDS
ACTION A	MG set or alternate power monitoring assembly	wer monitoring assembly for an er supply inoperable, restore the ly to OPERABLE status within 72 25 MG set or alternate power sup	hours (B) { A.2
ACTION B	RPS MG set or alternate	power monitoring assemblies for power supply inoperable, restor coring assembly to OPERABLE stat associated RPS MG set or alter Add Proposed ACTION C)-	e at least A.Z
	SURVEILLANCE REQUIREMENTS	(Add proposed ACTIONS D.E.	WOF 7 L-3
	COLD SHUTDOWN for a peri the previous 6 months. s.2.2 (At least once per (18) mor overvoltage, undervoltag (s.2.3) (at least once per (18) mor overvoltage, undervoltag (s.2.3) (instrumentation by perfo (simulated automatic actual (logic and output circuls (logic and output circuls (s.2.3) (s.2.3) (s.2.3) (s.2.3) (simulated automatic actual (logic and output circuls (s.2.3) (s.2.3	INEL FUNCTIONAL TEST each time to od of more than 24 hours, unles 24 <u>ths buildemonstrating the OPERAE</u> be, and underfrequency protective prmance of a CHANNEL CALIBRATION inton of the protective pelays, breakers and verifying the fo	the plant is in s performed in LD.1 LE.1 Unincluding LA.1 Towing A.4 Z-4 seconds Z-4 seconds
	LA SALLE - UNIT 1	3/4 8-31	Amendment No. 18

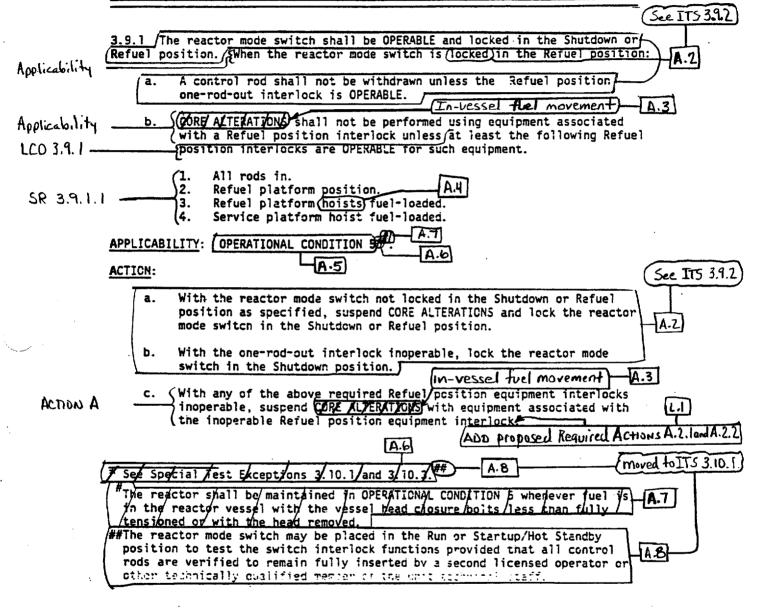
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ITS 3.9.1

3/4.9 REFUELING OPERATIONS

3/4.9.1 REACTOR MODE SWITCH -

LIMITING CONDITION FOR OPERATION



A.1

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3/4.9 REFUELING OPERATIONS

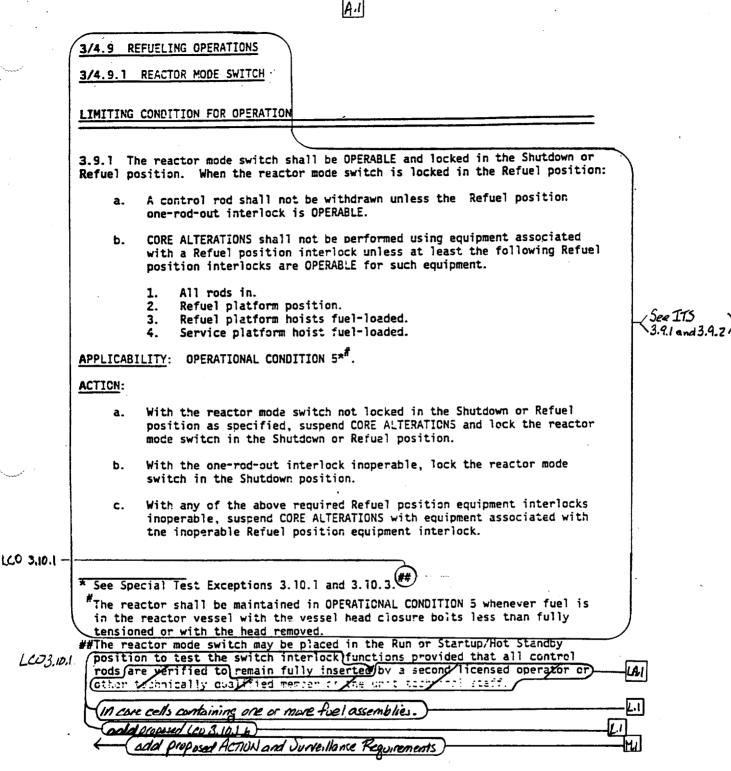
3/4.9.1 REACTOR MODE SWITCH

	LIMITING	CONDITION FOR OPERATION		-A.2
	3.9.1 ff Refuel po	he reactor mode switch shall be OPERABLE and locked in to osition. When the reactor mode switch is locked in the	Refuel position:	-A.2
Applicability- LC=3.9.2-	{a.	A control rod shall not be withdrawn unless the Refue one-rod-out interlock is OPERABLE.	Lovered by 5R3. 1 position	<u>9.2.1</u>)
	b.	CORE ALTERATIONS shall not be performed using equipme with a Refuel position interlock unless at least the position interlocks are OPERABLE for such equipment.	nt associated following Refuel	
		 All rods in. Refuel platform position. Refuel platform hoists fuel-loaded. Service platform hoist fuel-loaded. 	<u>153.9.1</u>)	4.3
	APPLICABI	ILITY: OPERATIONAL CONDITION 5		A.S
	ACTION:			A.+
ACTION	a. A	With the reactor mode switch not locked in the Skutdon position as specified. Suspend CORE & TERATIONS and to mode switch in the Spatdown of Refuel position.		- <u>L.2</u>
ALTION B	b.	With the one-rod-out interlock inoperable. lock the row (switch in the shutdown position.	eactor mode	-L.Z
	¢	With any of the above required Refuel position equipme inoperable, suspend CORE ALTERATIONS with equipment as the inoperable Refuel position equipment interlock.	ent interlocks ssociated with <i>Gee 175 3.9.1</i>)-	
	See Spe	ecial Test Exceptions 3/10.1 and 3.10.3 (moved to 175.		A.3 A.5
	The real in the	actor shall be maintained in OPERATIONAL CONDITION 5 when reactor vessel with the vessel head closure bolts less ned or with the kead removed	never fuel is	A.7 A.6
	The read positio rods ar	actor mode switch may be placed in the Run or Startup/Hot on to test the switch interlock functions provided that re verified to remain fully inserted by a second license technically qualified member of the unit technical staff	all control d operator or)	
			(moved to ITS 3.10.1)	-A.7
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II	5	3.9	.1

See ITS 3.9.2

A.2

L.3

REFUELING OPERATIONS

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,1

a. Within 2 hours prior to:

- 1. Beginning CORE ALTERATIONS, and
- Resuming CORE ALTERATIONS when the reactor mode switch has been unlocked.

b. At least once per 12 hours. / A.2

(4.9.1.2 Each of the above required reactor mode switch Refuel position SR 3.9.1.) interlocks shall be demonstrated OPERABLE by performance of a CHANNEL FUNCTIONAL ITEST within 24 hours prior to the start of and at least once per 7 days during (control rod withdrawal or) COPE ALIERATIONS, as applicable. (*in-vessel movement*)

4.9.7.3 Each of the above required reactor mode/switch Refuel position interlocks that is affected shall be demonstrated OPERABLE by performance of a CHANNEL FUNCTIONAL TEST prior to resuming control rod withdrawal pr CORE ALTERATIONS, as applicable, following repair, maintenance or replacement of any component that gould affect the Refuel position interlock.

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SURVEILLANCE REQUIREMENTS

4.9.1.1 The reactor mode switch shall be verified to be locked in the (Stutdows) -16.1 Retuel position as specified: Within 2/ hours pyior to: L.3 SR 3.9.2.1 Beginning CORE ALTERATIONS, and kesuming/CORE ALTERATIONS when the reaftor mode switch has been 2. unlocked. b. At least once per 12 hours. L.3 4.9.1.2 4 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 prior to the start of and at least once per 7 days during control rod withdrawal Or CORE ALTERATIONS) as applicable. SR 39.2.2 (See ITS 3.9.1) A.3 4.9/1.3 Each of the above required reactor mode switch Refeel position interlocks that is affected shall be demonstrated OPERABLE by peformance of CHANNEL FUNCTIONAL TEST prior to resuming control rod withdrawal or CORE ALTERATIONS, as applicable following repair, maintenance or replacement of any component that could affect the Refuel position interlock. 1.5 Add proposed Note to SR 3.9.2.2 L.H

A.1

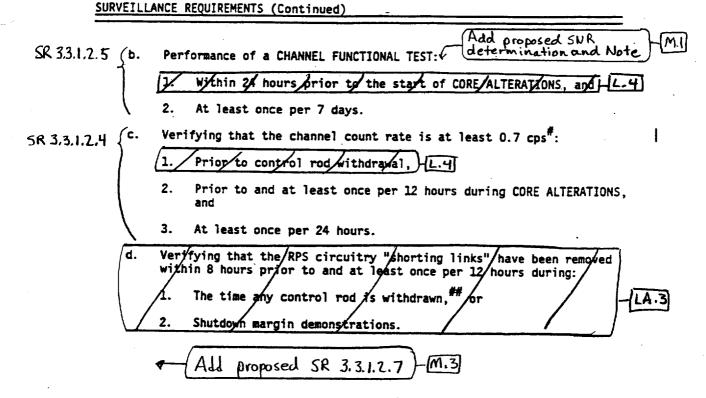
LA SALLE - UNIT 1



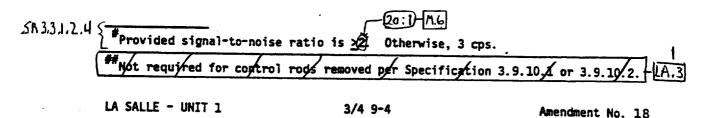
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	A.I III ITS 3.3.1.2
	REFUELING OPERATIONS
	3/4.9.2 INSTRUMENTATION
Januar 1	LIMITING CONDITION FOR OPERATION
LCD 3.3.1.2 and Table 3.3.1.2	{ 3.9.2 At least 2 source range monitor* (SRM) channels shall be OPERABLE and inserted to the LA.2
	a. Continuous visual indication in the control room.
SR 3.3.1.2.2. SR 3.3.1.2.2.	
	C. The "shorting links" removed from the RPS circuitry prior to and during the time any LA.3
	APPLICABILITY: OPERATIONAL CONDITION 5 unless the following conditions are met:
Note t	
SR 33.1.	b. While in core, these four fuel assemblies are in locations adjacent to the SRM; and
	c. In the case of movable detectors, detector location shall be selected such that each group of fuel assemblies is separated by at least two (2) fuel cell locations from any other fuel assemblies.
•	ACTION:
ACTIONE	(With the requirements of the above specification not satisfied, immediately suspend all operations involving CORE ALTERATIONS and insert all insertable control rods;
	SURVEILLANCE REQUIREMENTS (instate action to) (incore cells containing one or more fuel assembles)
· ·	4.9.2 Each of the above required SRM channels shall be demonstrated OPERABLE by:
	a. At least once per 12 hours:
SR 3.3.1.2.1	1. Performance of a CHANNEL CHECK,
	(2. Vertiving the detectors are inserted to the normal operating level, and)
SR3.3.1.2.2.b SR <u>3.3.1.2.2</u> .c	SRM channel is located in the core quadrant where CORE ALTERATIONS are being performed and another is located in an adjacent quadrant. Add proposed SR3.3.1.2.2
Note (c) to	The use of special movable detectors during CORE ALTERATIONS in place of the normal SRM nuclear detectors
Table 3.3.1.2.1	The normal or emergency power source may be inoperable. A.S.
	(Add proposed Note (b) to T3.3.1.2-1)
•	IA SALLE - LINIT 1 3/4 0.2 Amondmont Mar. 120
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A.1



ITS 3.3.1.2

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ITS 3.9.3

1.)

A.2

3/4.9.3 CONTROL ROD POSITION

LIMITING CONDITION FOR OPERATION

LCO3.9.3 -{3.9.3 All control rods shall be inserted.

A.3 APPLICABILITY: (OPERATIONAL CONDITION 5, during CORE ALTERATIONS)

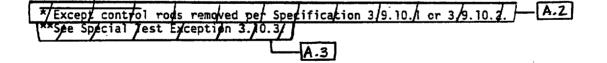
A.1

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:

Within 2 hours prior to: a. The start of CORE ALTERATIONS. 1,2 SR 3.9.3.1 The withdrawal of one control rod under the control of the reactor mode switch Refuel position one-rod-out interlock. 2. A. 2 b. At least once per 12 hours.



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Current Specification 3/4,9.4

REFUELING OPERATIONS 3/4.9.4 DECAY TIME LIMITING CONDITION FOR OPERATION shall be subcritical for at least 24 hours. í m 3.9.4 APPLIZABILITY: OPERATIONAL CONDITION 5, during movement of irradiated fuel inv actor pressure vessel. CTION: With the reactor subcritical for less than 24 hours, suspend all operations involving movement of irradiated fuel in the reactor pressure vessel REQUIREMENTS SURVEILLANCE 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. A.| LA SALLE - UNIT 2 3/4 9-6

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 3/4.9.5 COMMUNICATIONS

 LIMPTING CONDITION FOR OPERATION

 3.9.5 Direct communication shall be maintained between the control room 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.

 Figure 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.

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American and a second

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REFUELING OPERATIONS		Current Specification 314.9.6
3/4.9.6 CRANE AND HOIST	7	
LIMITING CONDITION FOR OPE	RATION	
3.9.6 All cranes and hois within the reactor pressur	ts used for handling fuel asse e vessel shall be OPERABLE	mblies or control rods
APPLICABILITY: During hand reactor pressure vessel.	dling of fuel assemblies or co	ntrol rods within the
ACTION:		
	crane and hoist OPERABILITY no e or hoist from operations inve ablies within the reactor press condition.	
SURVEILLANCE REQUIREMENTS		
	used for handling of control r vessel shall be demonstrated such operations with that cran	
a. Demonstratin load exceeds	g operation of the overload cu :	toff when the
a) 160	fuel hoist: 00 +100/-0 pounds with the NF5 00 ±50 pounds with the 762E974	00 mast. mast.
2. 1000 ± 5	50 pounds for the auxiliary ho	ist.
b. Demonstrating exceeds:	g operation of the Yoaded inter	rlock when the load
a) 700	fuel hoist: +50/-0 pounds with the NF500 +50 pounds and 550 +50 pounds	mast. with the 762E974 mast.
	pounds for the auxiliary hois	
C. Demonstrating downtravel ext	operation of the fuel hoist d ceeds 54 feet below the platfo	owntravel stop when frm rails.
d. Demonstrating up-travel stop below the plat	operation of the fuel hoist a ps when the grapple is lower t tform rails.	nd auxiliary hoist han or equal to 8 feet
e. Demonstrating when the hoist	operation of the fuel boist s t is unloaded.	lack cable cutoff
LA SALLE - UNIT 1	3/4 9-8 R.1	Amendment No. 83

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Current Specification 3/4.9.7 REFUELING OPERATIONS 3/4.9.7 CRANE TRAVEL LIMITING CONDITION FOR OPERATION 3.9.7 Loeds over the refueling floor, and over the spent fuel storage pool racks when fuel assemblies are in the racks, shall be restricted as follows: All movements of a spent fuel shipping cask shall be controlled by the critical/"L" path control system of the Reactor Building crame. Loads ip excess of 1290 pounds shall not travel over the spent fuel b. storage pool racks. One fuel assembly may be moved over the spent fuel storage pool racks с. 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 "" path control system of the Reactor Suilding 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 floop!

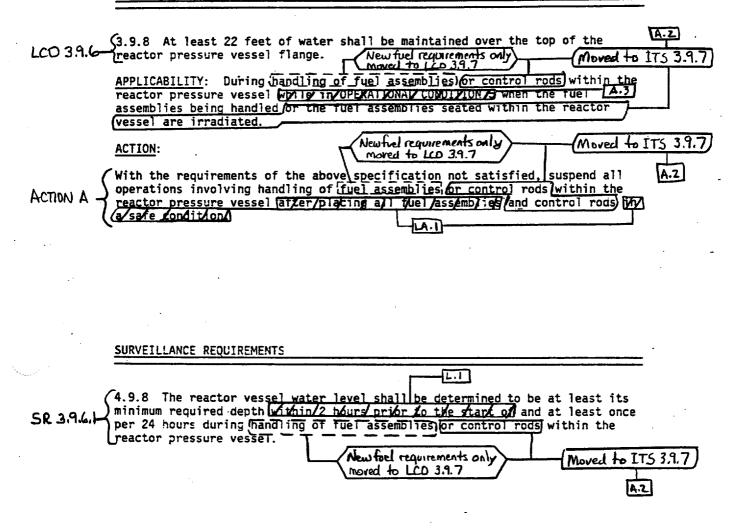
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3/4.9.8 WATER LEVEL - REACTOR VESSEL

LIMITING CONDITION FOR OPERATION



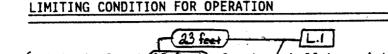
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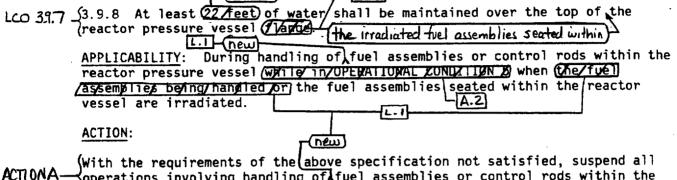
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3/4.9.8 WATER LEVEL - REACTOR VESSEL





A.I

CTIONA operations involving handling of fuel assemblies or control rods within the reactor pressure vessel after placing all fuel assemblies and control rods in a safe condition.

SURVEILLANCE REQUIREMENTS

4.9.8 The reactor vessel 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.

1.2

LA SALLE - UNIT 1

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3/4.9.9 WATER LEVEL - SPENT FUEL STORAGE POOL

LIMITING CONDITION FOR OPERATION

LCO 3.78	3.9.9 At least (3 Acet) of water shall be maintained over the (top of active) fuel in irradiated fuel assemblies seated in the spent fuel storage pool racks. A.3
A.2	ACTION: ACT
ACTION A	With the requirements of the above specification not satisfied, suspend all movement of fuel assemblies and crane operations with loads in the spent fuel storage pocl area after placing the fuel assemblies and grane load in a safe condition. The provisions of Specification 3.0.3 are not applicable. LA.2
	SURVEILLANCE REQUIREMENTS

A. I

SR 3.7.8.1

4.9.9 The water level in the spent fuel storage pool shall be determined to be at least at its minimum required depth at least once per 7 days.

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3/4.9.10 CONTROL ROD REMOVAL

SINGLE CONTROL ROD REMOVAL

LIMITING CONDITION FOR OPERATION

КSee ITS 3.10.47

A.I

3.9.10.1 One control rod and/or the associated control rod drive mechanism 1203.103 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 mechanism are refinstalled and the control rod is fully 122 inserted in the core.

APPLICABILITY

(See ITS 3.10.47 The reactor mode switch is OPERABLE and locked (in the Shutdown) а. position or in the Refuel position per Table 1/2 and Specification LI 3.8.11 The source range monitors (SRM) are OPERABLE per Specification ΛБ. A.S 3/9.2./ The SHUTDOWN MARGIN requirements of Specification 3.1.1 are satisfied, ..2 LC6 3.10.3.2.2.

c. except that the control rod selected to be removed;

1. May be assumed to be the highest worth control rod re	quired to
be assumed to be fully withdrawn by the SHUTDOWN MARC	IN test
and	AT
2. Need not be assumed to be immovable or untrippable.	

d. All other control rods in a five-by-five array centered on the LCO 3, 10.3, C.Z control rod being removed are inserted and electrically/or) (hydraulically) disarmed. LCD 3.10.3. a

LCD 3.10.3. A e. All other control rods are inserted.

APPLICABILITY: OPERATIONAL CONDITIONS 4 (and 5.) < SecITS 3.10,4> (ACTION:) AS add proposed Actions Note) A4 With the requirements of the above specification not satisfied, suspend removal of the control rod and/or associated control rod drive mechanism from the core ALTICALS and/or reactor pressure vessel and initiate action to satisfy the above Aand B requirements. < add proposed Required Actions A.2.1, A.2.2 and B.2.1 Mi proposed Required Action A.I Notes

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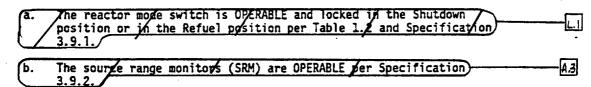
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3/4.9.10 CONTROL ROD REMOVAL

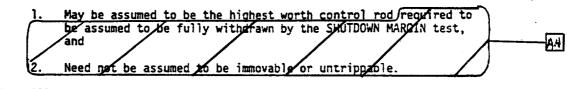
SINGLE CONTROL ROD REMOVAL

LIMITING CONDITION FOR OPERATION

LCD 3.10.4 3.9.10.1 One control rod and/or the associated control rod drive mechanism 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 mechanism are reinstalled and the control rod is fully inserted in the core.



LCo3.10.4, C. The SHUTDOWN MARGIN requirements of Specification 3.1.1 are satisfied, except that the control rod selected to be removed;



All other control rods in a five-by-five array centered on the (co3.10.4.d d. control rod being removed are (inserted) and electrically of A. LC03104.a) (hydraul/cally) disarmed. add popused LCO3.10.4.c (First port) and LCD 3.10.4.d М LC03.10,4.a e. All other control rods are inserted. with LCD 3.9.5 not met AŚ APPLICABILITY: OPERATIONAL CONDITIONS (4 and) 54 ACTION: <See IT13.10.3> With the requirements of the above specification not satisfied, suspend removal ACTION A of the control rod and/or associated control rod drive mechanism from the core and/or reactor pressure vessel and initiate action to satisfy the above requirements. 🗻 add proposed Registed Action A. 2.1) A6

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	Aı
	REFUELING OPERATIONS
and the second s	SURVEILLANCE REQUIREMENTS
SR 3.103.2 SK 3.10,3.3	4.9.10.1 Within 4 bours prior to the start of removal of a control rod and/or the associated control rod drive mechanism from the core apd/or reactor pressure ressel and/at least once per 24 hours/thereafter until a control rod and associ- ated control rod drive mechanism are reinstalled and the control rod is
5R3,1D.	a. (The reactor mode switch is OPERABLE and locked in the Shutdown) 3.1 (Dosition op in the Refuel/position/with the "one rod out" Refuel position interlock OPERABLE per Specification 3.9.1, (See 175 3.10.4) b. The SRM channels are OPERABLE per Specification 3.9.2, A3
5 r3.10,3 .	c. The SHUTDOWN MARGIN requirements of Specification 3.1.1 are satisfied per Specification 3.9.10.1.c (add proposed SR 3.10.3.2 Note)
JR3.10.3. SR3.10.3.	2 <u>Control rod being removed are(inserted)</u> and (electrically or) 3 <u>hydraulically</u> disarmed, and <u>LA.1</u>
SR3-10.3.	s e. All other control rods are inserted. Add proposed SR 3.10.3.1 and SR 3.10.3.4

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ITS 3,10.3

SURVEILLANCE REQUIREMENTS

SR3,10,41 4.9.10.1 Within 4 hours prior to the start of removal of a control rod and/or 2 the associated control rod drive mechanism from the core and/or reactor pressure vessel and at least once per 24 hours thereafter intil a control rod and associ-ated control rod drive mechanism free reinstalled and the control rod is inserted in the core, verify that: 5R3.10.4.2 **4**.2 The reactor mode switch is OPERABLE and locked in the Shotdown position or in the Refuel position with the "one rod out" Refuel L.I a. M.I (position interlock OPERABLE per Specification 3.9.1, A.3 The SRM channels are OPERABLE per Specification 8.9.2 6. The SHUTDOWN MARGIN requirements of Specification 3.1.1 are satisfied SR 3.10,4.4 c. per Specification 3.9.10.1.c All other control rods in a five-by-five array centered on the 5R3.10.4.2 d. control rod being removed are inserted and electrically or 5R3.10.4.1) LA.I (hydraul/cally) disarmed, and 5R3.10.4.1 All other control rods are inserted. e. MI add proposed SR3.10.4.3 and SR3.10.4.5)

A.1

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ITS 3.10.4

L.1

REFUELING OPERATIONS

a.

MULTIPLE CONTROL ROD REMOVAL

LIMITING CONDITION FOR OPERATION

LCD3.10.5

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, rod drive mechanisms are refinstalled and all control rods are inserted in the core.

- 103.10.5
- The reactor mode switch is OPERABLE and locked in the Shutdown position or in the Refuel position per Specification 3/9,1 except that the Refuel position "one-rod-out" interlock may be bypassed, as 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 pPERABLE per Specification A3 3.9.2./

E. The SHUTDOWN MARGIN requirements of Specification 2.1.1 are satisfied. A4

LCO 3.10.5. L

d. All other control rods are either inserted or have the surrounding four fuel assemblies removed from the core cell.

· 1003.10.5.9 e. The four fuel assemblies surrounding each control rod or control rod drive mechanism to be removed from the core and/or reactor vessel are removed from the core cell.

add popesed LCO 3.10.5.C M.I APPLICABILITY: OPERATIONAL CONDITION 5 with LCO 3.9.4 or LCO 3.9.5 not met ACTION:

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 ACTION A reactor pressure vessel and initiate action to satisfy the above requirements.

add prosed Keyward Action A. 2. A4

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SURVEILLANCE REQUIREMENTS

SR3.10.5.1 4.9.10.2.1 Within 4 hours prior to the start of removal of control rods SR3.10.5.2 (and/or centrol rod drive mechanisms from the core and/or reactor pressure) 4.2 vessel and at least once per 24 hours thereafter until all control rods and 4.2 control rod drive mechanisms are reinstalled and all control rods are 4.2

A.1

Position or in the Refuel position per Specification 3.9.1.

0. The SRM channels are OPERABLE per Specification 3.9.2.

C. The SHUTDOWN MARGIN requirements of Specification 3.1.1 are satisfied

SR3.10.5.2

d. All other control rods are either inserted or have the surrounding four fuel assemblies removed from the core cell.

58316.5.1

e. The four fuel assemblies surrounding each control rod and/or control rod drive mechanism to be removed from the core and/or reactor vessel 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 bypassed.

add proposed SR 3.10.5.3

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A4

M.1

ITS 3.9.8

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1

A.1

3/4.9.11 RESIDUAL HEAT REMOVAL AND COOLANT CIRCULATION

HIGH WATER LEVEL

LIMITING CONDITION FOR OPERATION A.5 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:/ LA. One OPERABLE RHR pump, and One OPERABLE RHR heat exchanger APPLICABILITY: OPERATIONAL CONDITION 5, when irradiated fuel is in the reactor vessel and the water level is greater than or equal to 22 feet above the top of the reactor pressure vessel flange. ACTION: (With no RHR shutdown cooling mode loop OPERABLE, within 1 hour and at a. ACTION A least once per 24 hours thereafter, demonstrate the operability of at least one alternate method capable of decay heat removal. Otherwise, Suspend all operations involving an increase in the reactor decay heat - (load) and establish SECONDARY CONTAINMENT INTEGRITY within 4 hours. -1 A.Z ACTION B (With no RHR shutdown cooling mode loop in operation, within I hour b. establish reactor coolant circulation by an alternate method and monitor ACTION C. reactor coolant temperature at least once per hour. SURVEILLANCE REQUIREMENTS Required Action C.1 4.9.11.1 At least one shutdown cooling mode loop of the residual heat removal system (or alternate method) shall be verified to be in operation and circulating SR 3.9.8.1-(reartyr cooland at least once per 12 hours. A.7 $\mathbf{\hat{F}}$ The shutdown cooling pump be removed from operation for up to 2 hours per 10 39.8 8-hour period. NOTE The normal or mergency power source may be inoperable. A.5

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LOW WATER LEVEL

LIMITING CONDITION FOR OPERATION

<u>APPLICABILITY:</u> OPERATIONAL CONDITION 5, when irradiated fuel is in the reactor vessel and the water level is less than 22 feet above the top of the reactor pressure vessel flange.

A.1

ACTION:

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.I

SURVEILLANCE REQUIREMENTS

LA.Z

I

LCO 399 The shutdown cooling pump may be removed from operation for up to 2 hours Note per 8-hour period.

#The pormal or mergency power source may/be inoperable for each loop/ - A.2

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3/4.10 SPECIAL TEST EXCEPTIONS

\$/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 lox 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 ROWER and reactor coolant temperature shall be verified to be within the limits at least once per hour during low power PHYSICS TESTS.)، M

LA SALLE - UNIT 1

		TS 3.10.6
	SPECIAL TEST EXCEPTIONS	
	3/4.10.2 ROD WORTH MINIMIZER	
•		1
	LIMITING CONDITION FOR OPERATION	
LCO 3.10.6	(of L(0 3.1.6) 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	<u>A.2</u>
	technically qualified member of the unit technical staff, who is present at the (reactor control console.	
	a. Shutdown margin demonstrations, Specification 4.1.1.	1.2
	b. Control rod scram, Specification 4.1.3.2.	
	c. Control rod friction measurements.	
	d. Startup Test Program with the THERMAL POWER less than 10% of RATED THERMAL POWER.	
	APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2	A41
•	ACTION: (With LCD 3.1.6 not met)	
Tion A	With the requirements of the above specification not satisfied (verify that) (the RMM is OPERABLE per Specification 3.1.4.1).	A3
	SURVEILLANCE REQUIREMENTS	·
(3. 10.6. I	4.10.2 When the sequence constraints imposed on control rod groups by the RWM are bypassed, verify;	
	a. DELETED	
23.146.1	b. That movement of control rods (from 75% ROD DENSITY to the RWM low) power setpoint is limited to the approved control rod withdrawal sequence during scram and friction tests,	
R3.06.1	c. That movement of control rods during shutdown margin demonstrations is limited to the prescribed sequence per Specification 3.10.3, and	
3.16. 1	d. Conformance with this specification and test procedures by a second licensed operator or other technically qualified member of the unit technical staff.	
	(add proposed 3.10.6.2)	-A2
	LA SALLE UNIT 1 3/4 10-2 Amendment No. 88	

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IT53.10.7

SPECIAL TEST EXCEPTIONS

3/4.10.3 SHUTDOWN MARGIN DEMONSTRATIONS

LIMITING CONDITION FOR OPERATION

LCD 3.10.7 19.2 3.10.3 The provisions of Specification 2.9.1. Specification 3.9.3 and 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. the source range monitors are OPERABLE with the RPS gircuitry "snorting A.3 links" removed per Specification 3.9.2. b. The rod worth minimizer is OPERABLE per Specification 3.1.4.1 and is 1103,10.7.b 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. The "rod-out-notch-override" control shall not be used during C. 1103.10.7 2 out-of-sequence movement of the control rods. add proposed LCD 3,10.7. a and A.+ 10 107.0 No other CORE ALTERATIONS are in progress. LCD 3.10.7.e d. add proposed LOS, 10.7 APPLICABILITY: OPERATIONAL CONDITION 5 guring shutdown margin demonstrations with the reactor made switch in the startup/hot standby ACTION: DOSITISA With the requirements of the above specification not satisfied, immediately place the reactor mode switch in the Shutdown or Refuel position. ACTION 3 add proposed ACTIONA **A**4 SURVEILLANCE REQUIREMENTS LI 4.10.3 (Within 30 minutes prior to and) at least (once per 12 hours during the performance of a shutdown margin demonstration, verify that; Œ The source range monitors are OPERABLE per Specification 3.9/2 b. The rod worth minimizer is OPERABLE with the required program per A.6 Specification 3.1.4.1 or a second licensed operator or other SR3.10.7.2 technically qualified member of the unit technical staff is present SR310.7.3 and verifies compliance with the shutdown demonstration procedures, and SR3.10.7.4 C. Nc_other CORE ALTERATIONS are in progress. add proposed SR 3.10. 7.1 and SR 3.10, 7.5 A.4 add proposed SR 3.10.7.6 MI LA SALLE - UNIT 1 3/4 10-3

A.1

Page loft

CTS 3/4.10.5

SPECIAL TEST EXCEPTIONS

(4.10.5 OXYGEN CONCENTRATION
IMITING CONDITION FOR OPERATION
.10.5 The provisions of Specification 3.6.6.2 may be suspended during the erformance of the Startup Test Program until either the required 100% of ATED THERMAL POWER trip test have been completed or the reactor has operated or 120 Effective Full Power Days.
PPLICABILITY: OPERATIONAL CONDITION 1.
ith the requirements of the above specification not satisfied, be in at least TARTUP within 6 hours.
DRVEILLANCE REQUIREMENTS
.10.5 The Effective Full Power Days of operation shall be verified to be ess than 120 by calculation, at least once per 7 days during the Startup est Program.
IM.

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3/4.10.6

SPECIAL TEST EXCEPTIONS

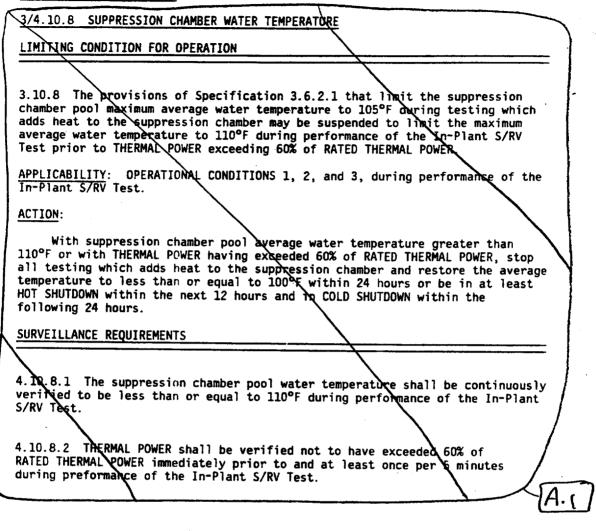
X4.10.6 TRAINING STARTUPS LIMITING CONDITION FOR OPERATION 3.10.6 The provisions of Specification 3.5.1 may be suspended to permit one RHR subsystem to be alrened in the shutdown cooling mode during training startups provided that the reactor vessel is not pressurized, THERMAL NOWER is less than or equal 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 Shutdown 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 verified to be within the limits at least once per hour during training startups. MI

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CT53/4.10.8

SPECIAL TEST EXCEPTIONS



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3/4.11 RADIOACTIVE EFFLUENTS

3/4.11.1 LIQUID EFFLUENTS

A.1)

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LIQUID HOLDUP TANKS

LIMITING CONDITION FOR OPERATION

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 proposedITS 5,5.9 A.8

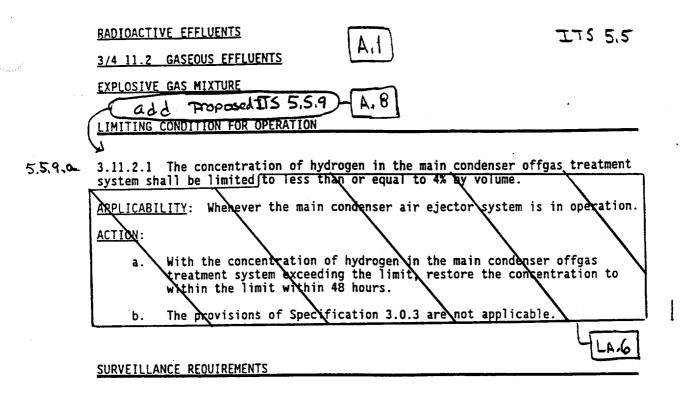
APPLICABILITY: At all times. ACTION: With the quantity of radioactive material in any of the above listed tanks exceeding the above limit, immediately suspend all additions of radioactive material to the tank and within 48 hours reduce the tank contents to within the limit. The provisions of Specification 3.0.3 are not applicable. b. LA.6

SURVEILLANCE REQUIREMENTS

5.5.9.6

5.5.9,b

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 per 7 days when madioactive materials are being added to the tank. LN.6 The provisions of SR3.0.2 and SR3.0.3 are applicable to the Explosive Gas and storage Tent Rediactivity Monitoring Program Surveillance Frequencies. Amendment No. 94 3/4 11-1 LA SALLE - UNIT 1



5,59,a 4.11.2.1 The concentration of hydrogen in the main condenser offgas treatment system shall be determined to be within the above limits (as required by LA, 6 Nable 3.3.7.N-1 of Specification 3.3.7.11.

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.A.'

Μ.

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A.2



RADIOACTIVE EFFLUENTS

MAIN CONDENSER

LIMITING CONDITION FOR OPERATION

LC0 37.6 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.

<u>APPLICABILITY</u>: OPERATIONAL CONDITIONS 1, 2 and 3. With only main steam line <u>ACTION</u>: <u>ACTION</u>: <u>ACTION</u>: <u>ACTION</u>: <u>ACTION</u>:

With the release rate of the sum of the activities of the noble gases prior to the holdup line exceeding 3.4×10^5 microcuries/second restore the release rate to within its limit within 72 hours or be in at least STARTUP with the ACTION B main steam isolation valves closed within the next (b) hours. (2-L.2)

SURVEILLANCE REQUIREMENTS (Add proposed Required Action B.2. [L.]

after decay of 30 minutes

SR3.7.0.) 4.11.2.2.2 The release rate of the sum of the activities from noble gases (prior to the holdup The shall be determined to be within the limits of Specification 3.11.2.2 at the following frequencies by performing an isotopic (aqalysis 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 gas, LA.Z. 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 Or equal to coolant.

Add proposed SR 3.7.6.1 Note

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3/4 11-3

40 5.0 DESIGN FEATURES 4.1 5.1 SITE EXCLUSION AREA 4.1.1 1,2 5.1.1 The exclusion area shall be as shown in Figure 5.1.1-1. all the land within a circle with its LI, 1.2 LOW POPULATION ZONE center at the vent stack and 5.1.2 The low population zone shall be as shown in Figure 5 1 2-1) a radius of 4.1.1 SITE BOUNDARY FOR GASEOUS EFFLUENTS 3.98 miles 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. 5~2 CONTAINMENT CONFIGURATION LA. 5.2.1 The primary containment is a steel lined post-tensioned concrete 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 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 а. b. Maximum internal temperature: drywerk 340°F. suppression chamber 275°F. с. Maximum external pressure 5 psig. Maximum floor differential pressure: d. 25 psid, downward. 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.

LA SALLE - UNIT 1

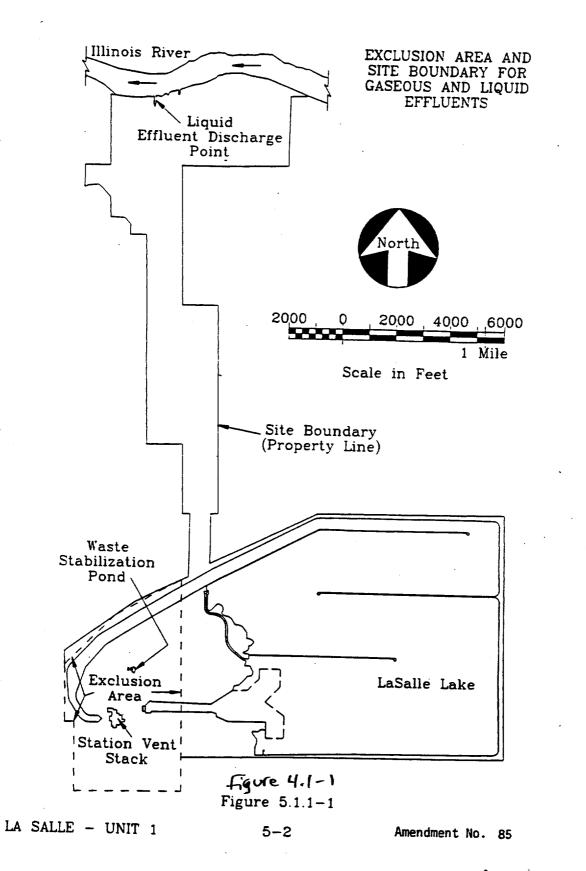
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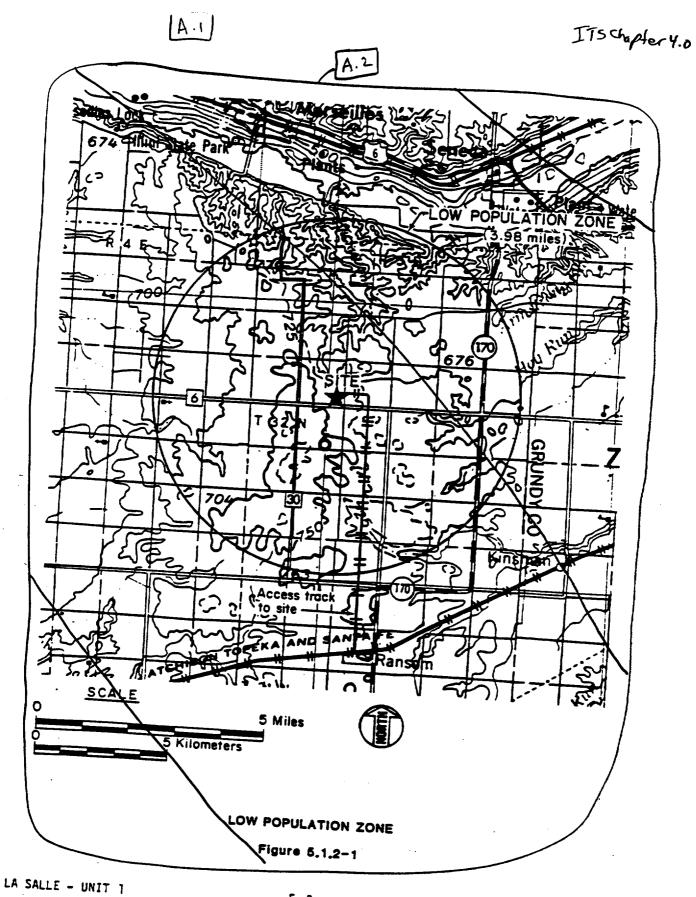
ITS Chapter 4.0

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ITS Chapter 4.0



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DESIGN PEATURES

4.2 5.3 REACTOR CORE

A.I

ITS Chapter 4.0

PUEL ASSEMBLIES

clad A.I

42.1 5.3.1 The reactor shall contain 764 fuel assemblies. Each assembly shall consist of a matrix of Zircalloy Vfuel 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 (B₄C) and/or hafnium metal. The control rod assembly shall have a mominal chial absorber length of 443 inches.

LA.1 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, with allowance for normal degradation pursuant to the applicable Surveillance Requirements,
 - For a pressure of:

DESIGN PRESSURE AND TEMPERATURE

- 1. 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. 1509 psig from the discharge shutoff valve to the jet pumps.

c. For a temperature of 575°F.

5.4.2 The total water and steam volume of the reactor vessel and recirculation system is - 21,000 cubic feet at a nominal T_{ave} of 533 °F.

5.5 DELETED

VOLUME

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LA SALLE - UNIT 1

DESIGN FEATURES

ITS Chapter 4.0

4.3 5.6 FUEL STORAGE

4.3.1 CRITICALITY

4.3.1.5.6.1 The spent fuel storage racks are designed and shall be maintained with:

- a. A k_{eff} equivalent to \leq 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.

URAINAGE

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.

<u>CAPACITY</u>

4.3.3 5.6.3 The spent fuel storage pool is designed and shall be maintained with a storage capacity limited to no more than 3986 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.

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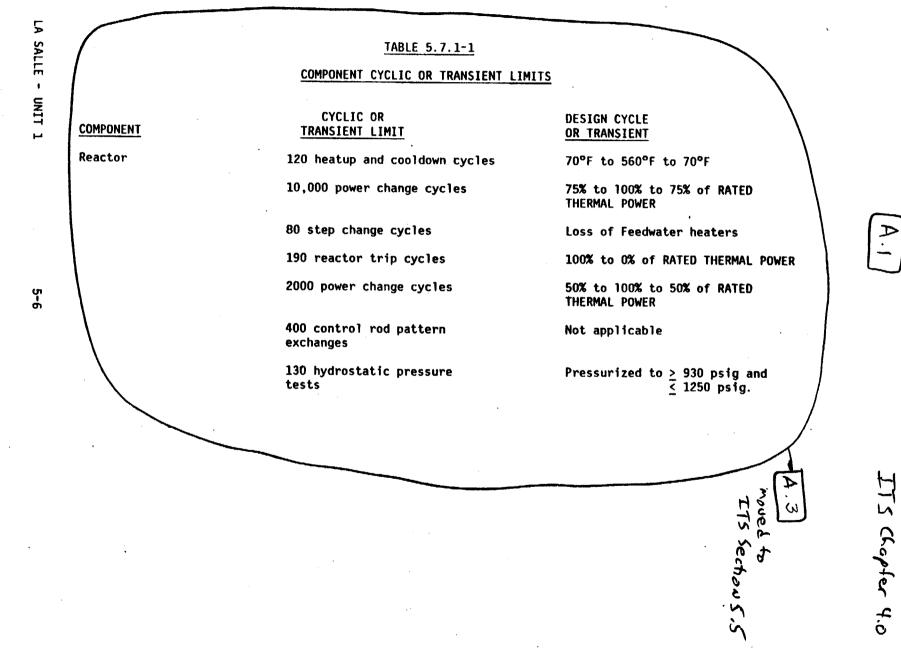
(A.3) Moved to ITS Section 5.5

ITS 5.5 See ITS chapter 4.0) DESIGN FEATURES 5.6 FUEL STORAGE CRITICALITY 5.6.1 The spent fuel storage racks are designed and shall be maintained with: A k_{eff} equivalent to \leq 0.95 when flooded with unborated water, including all calculational uncertainties and biases, as described in a. Section 9.1 of the FSAR. A nominal 6.26 inch center-to-center distance between fuel assemblies Ь. placed in the storage racks. 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 3986 fuel assemblies. 5.7 COMPONENT CYCLIC OR TRANSIENT LIMIT 5.5.5 UFSAR

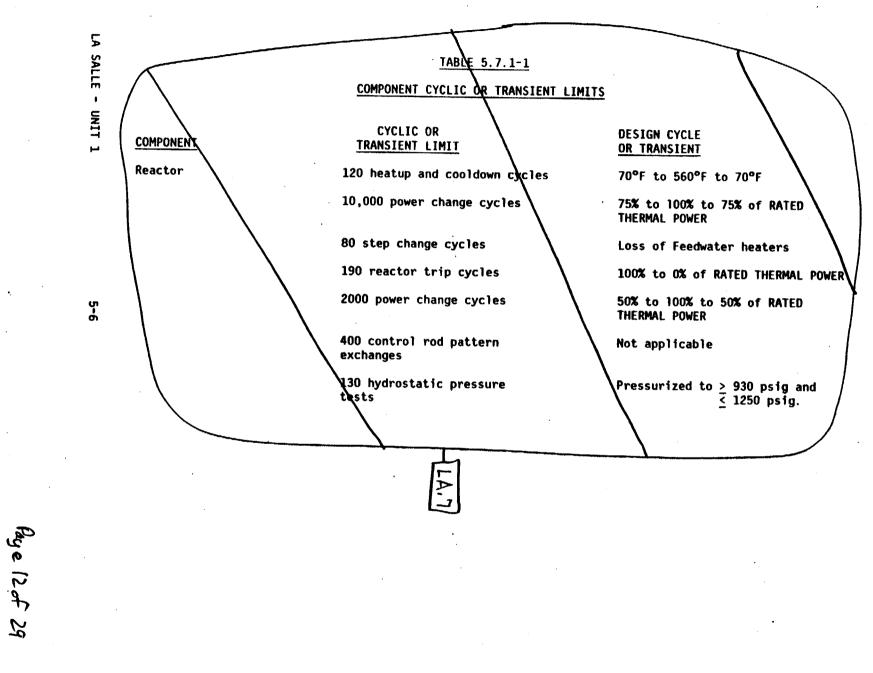
5.7.1 The components identified in Table 5.5 are designed and shall be maintained within the cyclic or transient limits of table 5.5 1-2.

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5.0 6.0 ADMINISTRATIVE CONTROLS ITS 5.1 RESPONSIBILITY 511 6.1 Onsite and offsite organizations shall be established for unit operation and corporate management, respectively. The onsite and offsite organizations shall include the positions for activities affecting the safety of the nuclear power plant. 1. Lines of authority, responsibility, and communication shall be EE ITS established and defined for the highest management levels through intermediate levels to and including all operating organization positions. These relationships shall be documented and updated, as appropriate, in the form of organization charts, functional descriptions of departmental responsibilities and relationships, and job descriptions for key personnel positions, or in equivalent forms of documentation. These requirements shall be documented in the Quality Assurance Manual. LAN and shall The individual filling the ANSI N18.1-1971 Section 4.2.1 position of 5.1.1 2. delegate Plant Manager ("Plant) Manager"), shall be responsible for overall in writing the Succession to this unit safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant? responsibility during (station) his absence The Chief Nuclear Officer (CNO) shall have corporate responsibility for overall plant nuclear safety and shall take any measures needed to ensure acceptable performance of the staff in operating, maintaining, and providing technical support to the plant to ensure SEE ITS nuclear safety. 5.2 The individuals who train the operating staff and those who carry out health 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 pressures. LA,2 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 Hanager shall be for safe operation of the nuclear facility on his shift under all conditions SEE JJS The shift manning for the station shall be as shown in Figure 6.1-3.

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5.2	6.1 ORGANIZATION	[A.1]	ITS 5.2
5.2.1	and corporate m	ite organizations shall be est management, respectively. The clude the positions for activit mer plant.	onsite and offsite organiza-
5.2.1.a , includ in plant-speci of those Pi fulfilling tesponsibi of the pois delineated Technicits	g the account of document the trives	uthority, responsibility, and d and defined for the highest te levels to and including all These relationships shall be e, in the form of organization epartmental responsibilities a ns for key personnel positions tation. These requirements sh surance Manual.	management levels through operating organization documented and updated, as charts, functional descrip- nd relationships, and job
5,7.1.6	(Plant Mana unit safe activities	dual filling the ANSI N18.1-19 ger ("Fight Anager"), shall b operation and shall have contr necessary for safe operation rate officer (Station)	e responsible for overall ol over those onsite
5,2,1, C	for overall to ensure a	Nuclear Officer (CNO) shall have a state of the state of	ll take any measures needed
5,2.1.d	out (health appropriate	duals who train the operating physics and quality assurance onsite manager; however, they onal freedom to ensure their in	functions may report to the shall have sufficient
EE 155.1 X	ment responsibil	er shall be responsible for dir ration of the facility on his s lity of the Shift Manager shall acility on his shift under all	be for safe operation

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LA SALLE - UNIT 1

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ADMINISTRATIVE CONTROLS ITS 5.2. AI At least one licensed Reactor Operator shall be in the control room when fuel is in the 5.2.2.ь 1. 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 Room. 5. Z.Z. d 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 Sector Reactor Operator or Senior Reactor Operator Limited to Fuel Handling who has no other concurrent responsibilities during this operation. 4. DELETED The Independent Safety Engineering Group (ISEG) shall function to examine unit <u>.A.</u>3 operating characteristics, NRC issuances, industry advisories, Licensee Event Reports and other sources of plant design and operating experience of formation, locluding plants of similar design, which may indicate areas for improving unit safety. The ISEG shall be composed of at least three, dedicated, full-time engineers of multidisciplines located on site and shall be augmented on a part-time basis by personnel from other parts of the Componwealth Edison Company organization to provide expertise not represented in the group. The ISEG shall be responsible for maintaining surveillance of unit activities to provide independent verification# that these activities are performed correctly and that homan errors are reduced as much as practical. Th 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 Safety Assessment and the Plant Manager. (shift manager 5.2.2.q 6. The Shift Technical Advisor shall provide advisory technical support to the Shift LA. (Manager) in the areas of thermal hydraulics, reactor engineering, and plant analysis with regard to the safe operation of the unit. 5.2.2.d 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. LA.3

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CTSG.I.E/F

See ITS

5.3

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).
- 8. The Operations Manager or Shift Operations Supervisor shall hold a Senior Reactor Operator License.
- 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:
 - 1. Individuals who have completed the Radiation Protection Technician training program and have accrued 1 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 Nucleal 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.

lage lof 2

LA SALLE - UNIT 1

	ADMINISTRATIVE CONTROLS A.I. TTS 5.2	
5,2.2.e	 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 S Senior Reactor Operator License.	2.4.1
	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 protec- tion 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 >	 Individuals who have completed the Radiation Protection Technician training program and have accrued 1 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 experi- ence 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." 	
(See CTS) (LI.E/F)	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.	I

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6-3

Amendment No. 107

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1.1 ITS S.3 ADMINISTRATIVE CONTROLS The amount of overtime worked by unit staff members performing safety SEE ITS. related functions shall be limited and controlled in accordance with 5.2 the NRC Policy Statement on working hours (Generic Letter 82-12). The Operations Manager or Shift Operations Supervisor shall hold a 8. Senior Reactor Operator License. Qualifications of the <u>station management</u> and <u>operating</u> staff shall meet minimum acceptable levels as described in ANSI N18.1, "Selection and D. 5,3,1 unit Training of Nuclear Power Plant Personnel," dated March 8, 1971. The Health Physics Supervisor shall meet the requirements of radiation protec-tion 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: radiction protection Individuals who have completed the Kadiation Protection Technician training program and have accrued I year of working experience in the 1. 5LA.1 5.3.(.a specialty, or Individuals who have completed the Madiation Protection Technician training program, but have not yet accrued 1 year of working experi-5.3.1.6 2. 5 LA.(ence 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. F. Seeas

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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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LA SALLE - UNIT 1

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6-4 (Next page is 6-13)

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FIGURE 6.1-3 MINIMUM SHIFT CREW COMPOSITION^{(8)(c)}

POSITION®		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 ⁽⁰⁾	1 1 3 3 1	1 1 3 3 1	1 None 2 3 None

CEF ITS

5.2

(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 contains fuel.

SRO Individual with a Senior Reactor Operator license for each unit whose reactor contains fuel.

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.

RO 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.

5,1,2 (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.

SEETT 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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ITSS.2 **FIGURE 6.1-3** A.(MINIMUM SHIFT CREW COMPOSITION(# **) MINIMUM CREWNUMBER POSITION ONE UNIT IN EACH UNIT IN EACH UNIT IN LA.H CONDITION 4 OR 5 CONDITION 1, 2, OR 3 CONDITION 1, 2, OR 3 OR DEFUELED AND ONE UNIT IN CONDITION 4 OR 5 OR DEFDELED SN 1 6RO Non RQ 3 3 2 5.2.2.a 3 AO STA LA.4 None (a) This table reflects the total requirements for shift staffing of both units. 5.2.2.a With the exception of the Shift Manager, the shift crew composition may be one less than the minimum requirements of Figure 6.13/for not more than 2 hours to accommodate unexpected absence of on-duty shift crew members, provided immediate actionlis taken to restore the shift 5.2.2.0 crew composition to within the minimum requirements OF Figure 6.1.3. This provision does not A' 3 permit any shift crew position to be unmanned upon shift change due to an opcoming chift crewman being late or absent. Table Notation: 'LA:4 SM Shift Manager with a Senior Reactor Operator license for each unit whose reactor contains fuel. SRO Individual with a Genior Reactor Operator license for each unit whose reactor contains Vue LA 2 Buring CORE ALTERATIONS on either unit a lisensed SRO onlicensed SRO limited to fuel handling, who has no other concurrent responsibilities, must be present to observe and directly supervise this operation. ЦА.Ч RQ An Individual with a Reactor Operato Nicense or a Senior Reactor Operator license for Unit, assigned. At least one RO shall be assigned to each unit whose reactor contains fuel 5.2.2.h Individuals acting as relief operators shall hold a license for both units. Otherwise, foreac A.4 unit, provide a relief operator who holds a license for the unit assigned. 5.2.2. a At least one auxiliary operator shall be assigned to each unit whose reactor contains fu AO (STA Shift Technical Advisor - LAN While either unit is in CONDITION 1, 2, or 3, an individual with a valid SRO license shall be (C) SEE designated to assume the control room command function. With both Units in CONDITION 4 or 5 ITSS.1 an individual with a valid SRO or RO license shall be designated to assume the control room command function. (d) The STA position shall be filled by an individual who meets the qualifications specified by the 5.2.2.q Commission Policy Statement on Engineering Expertise on Shift.

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5.] 6.1.1 HIGH RADIATION AREAS

6,1.1.1 Pursuant to Paragraph 20.203(c)(5) of 10 CFR 20, in lieu of the 20.160 5.71 "control device" or "alarm signal" required by paragraph 20-202(e)(2) of 10 CFR 20, each high radiation area in which the intensity of radiation is greater than 100 mrem/hr* but less than 1000 mrem/hr* shall be barricaded and 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 more of the following:

A.1

- 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 Health 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 or the Health 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 CFR.20.203 e.3 (441), locked except during periods when access to the area is required with positive control over each individual entry, or 10 CFR.20.201 c. If 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

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TTS 5.7

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SEE ITS	(UZCH DADIATION ADEAC (Continued)
\5.7 <i>/</i>	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 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 ITS 5.5)
5.4, 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,
5.4.1.6	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 Ganeric Letter No. 82-33,
	c. Station Security Plan implementation. d. Generating Station Emergency Response Plan implementation.
	e. PROCESS CONTROL PROGRAM implementation,
-	T. OFFSITE DOSE CALCULATION MANYAL implementation, and A.3
5.4.1.C	g. Fire Protection Program implementation.
	Add proposed TS 5.4.1, d H.1

SEE ITS *Measurement made at 18" from source of radioactivity.)

LA SALLE UNIT 1

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Amendment No. 55, 86

5.7 HIGH RADIATION AREAS (Continued)

57.4 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 area* 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.

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.

A.Z "Heasyrement made at 18" from source of radioactivity.

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(see ITS 5.4)

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 permessible 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.
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.
	 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.
	See ITS 5.4

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ITS 5.4

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5.4

PLANT OPERATING PROCEDURES AND PROGRAMS (Continued) See ITS 5.5>

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.

TECHNICAL REVIEW AND CONTROL

Procedures required by Specification 6.2.4 and 6.2.B and other procedures which affect nuclear lafety, 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:

- 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 he 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 determination of whether or not an unreviewed safety question is involved. This determination will be based on the review of 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 question shall be obtained prior to Station approval for implementation.

5. The Department Head approval authority shall be specified in station procedures.

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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TTS5.4 ADMINISTRATIVE CONTROLS Temporary changes to procedures 6.2.A and 6.2.B above may be made provided: LAŰ 1. The intent of the original procedure is hot altered. 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 wit 3. Specification 6.2.C. within 14 days of implementation Drills of the emergency procedures described in Specification 6.2.A. shall be conducted at frequencies as specified in the Generating Stations A.4 Emergency Plan (GSEP). These drills will be planned so that during the opurse of the year, communication links are tested and outside agencies a contacted. The following programs shall be established, implemented, and maintained: F. 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: Preventive maintenance and periodic visual inspection requirements, . and Integrated leak test requirements for each system at refueling ь. cycle intervals or less. SEE ITS 5.5 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: Training of personnel, a., Procedures for monitoring, and . b. Provisions for maintenance of sampling and analysis equipment. c. 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, Procedures for sampling and analysis, ь. Provisions for maintenance of sampling and analysis equipment. c.

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<u></u> 1	ADHI	ITS	5
(A.I)	D.	Temporary changes to procedures 6.2.A and 6.2.B above may be made provided:	5,5
i		1. The intent of the original procedure is not altered.	
ITS 5.4		 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. 	
		3. The change is documented, reviewed and approved in accordance with Specification 6.2.C. within 14 days of implementation.	
	E .	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:	
5,5,2		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:

Preventive maintenance and periodic visual inspection requirements and 24 month } 10,1

Integrated leak test requirements for each system at rafueling SA) LDI (Tycke) intervals or Voss. The provisions of Se 3.0.2 are applicable to the 24 month Frequency for performing integrated In-Plant Monitory system leak test activities. A program which will ensure the capability to accurately determine the LAI alroorne iodine concentration in vital areas under accident conditions. This program shall include the following: Training of personnel, . ь. Procedures for monitoring, and Provisions for maintenance of sampling and analysis equ c.

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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:

- Training of personnel, **a**.
- Procedures for sampling and analysis, ь.
- Provisions for maintenance of sampling and analysis equipment. с.

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AI OPERATING PROCEDURES AND PROGRAMS (Continued) ITS 5.5 5,5.4 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: Limitations on the operability of radioactive liquid and gaseous 5.5.4.9 monitoring instrumentation including surveillance tests and setpoint determination in accordance with the methodology in the ÓDCM, Limitations on the concentrations of radioactive material ь. 5.5, 4.b 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, Monitoring, sampling, and analysis of radioactive liquid and gaseous effluents in accordance with 10 CFR 20.1302 and with the 5.5.4. с. methodology and parameters in the ODCM, 5.5.4.1 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, Determination of cumulative and projected dose contributions from radioactive effluents for the current calendar guarter and 5.5.4.e е. 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 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, 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 g. 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 5.5.4.9.1 1. 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 2. 5.5.4.9.2 mrem/yr to any organ, 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 5.5.4.6 h. 10 CFR Part 50.

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AUMINISTRAT	IVE CONTROLS
TTS 5,4 PLANT OPERA	TING PROCEDURES AND PROGRAMS (Continued) A.I. ITS 5.5
55.4,1 1.	Limitations on the annual and quarterly doses to a MEMBER OF THE PUBLIC from lodine-131, lodine-133, tritium, and all radio- nuclides 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.j 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.
A p Th tab pat mon The gui	 iological Environmental Monitoring Program rogram shall be provided to monitor the radiation and radionuclides the environs of the plant. The program shall provide (1) represen- ive measurements of radiactivity in the highest potential exposure hways, and (2) verification of the accuracy of the effluent itoring program and modeling of environmental exposure pathways. program shall (1) be contained in the ODCM, (2) conform to the dance of Appendix I to 10 CFR Part 50, and (3) include the lowing: Monitoring, sampling, analysis, and reporting of radiation and radionuclides in the environment in accordance with the method- ology and parameters in the ODCM, A Land Use Census to ensure that changes in the use of areas at and beyond the STE BOUNDARY are identified and that modifications to the monitoring program are made if required by the results of this census, and 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 mathices are performed as part of the quality assurance program
This in p corr inter init frequ Regu prima the J other The J Surve The provision Effluent C	rvice Inspection Program for Post Tensioning Tendons program provides controls for monitoring any tendon degradation re-stressed concrete containments, including effectiveness of its posion protection medium, to ensure containment structural prity. The program shall include baseline measurements prior to ial operations. The Tendon Surveillance Program, inspection pencies, and acceptance criteria shall be in accordance with latory Guide 1.35, Revision 3, 1989, except that the unit 1 and 2 try containments shall be treated as twin containments even though initial Structural Integrity Tests were not within 2 years of each wing and approving changes to the Inservice Inspection Program rovisions of 4.0.2 and 4.0.3 are applicable to the Tendon illance Program inspection frequencies. As of SR 3D.2 and SR 3.0.3 are applicable to the Radioactive A.2 entrol Program Surveillance frequencies
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		1.4	ITS	5.5
ITS 5.4 PLANT OF	PERATING PROCEDURES	AND PROGRAMS (Continued	1)	
5.5,13 7.	Primary Containment Lea	kage Rate Testing Program		
5.5.(3.a	containment as required t as modified by approved (lished to implement the leakag by 10 CFR 50.54(o) and 10 CF exemptions. This program sha egulatory Guide 1.163, "Perfor lated September 1995.	R 50, Appendix J, Option B, all be in accordance with the	
5.5.13.6	The peak calculated primi coolant accident, P _a , is 39	ary containment internal press 9.6 psig.	ure for the design basis loss of	•
5.5.B.c	The maximum allowable p primary containment air w	primary containment leakage n reight per day.	ate, L _a , at P _a , is 0.635% of	
5.5.13.9	Leakage rate acceptance	criteria are:		
5.5.13.6.1	the first unit startup f	following testing in accordance ance criteria are ≤ 0.60 L, for ti	ice criterion is ≤1.0 L _a . During with this program, the he combined Type B and Type	
5.5.132.2	b. Air lock testing accept	ptance criteria are:		
5,5,13.0,2.0	1) Overall air lock leaka	ige rate is ≤0.05 L, when teste	od at ≥ P _a .	
5.5.13.2.2.6	y2) For each door, the set the door seals is pres	eal leakage rate is ≤ 5 scf per l ssurized to ≥ 10 psig.	hour when the gap between	
	The provisions of specification the Primary Containment L	ation 10.2 do not apply to the t Leakage Rate Testing Program	test frequencies specified in	A.31
5.5.(3.e	The provisions of specifica Leakage Rate Testing Pro	ation 4.0.3 are applicable to the	e Primary Containment	
5.5.8 8.	Ventilation Filter Testing P	Program (VFTP)		
	Engineered Safety Feature	shed to implement the following (ESF) filter ventilation system Revision 2, dated March 1978	is at the frequencies specified	A.13
	The provisions of Specifica frequencies.	ations 4.0.2 and 4.0.3 are appl	icable to the VFTP test	40.3
5.5.8.a	efficiency particulate a	h of the ESF systems that an ir air (HEPA) filters shows a pen in accordance with ASME N51 low:	etration and system bypass	
	ESE Ventilatio		- `	

ESF Ventilation Flowrate (cfm) System A.12 SBGT System ≥ 3600 and ≤ 4400 ≥ 3600 and ≤ 4400 EMUS CRAF LA SALLE - UNIT 1 6-20a Amendment No. 126 page 4 of 29 PLANT OPERATING PROCEDURES AND PROGRAMS (Continued)

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:

ESF Ventilation System	Penetration and System Bypass	Flowrate (cfm)
SBGT System CREF System CRRF System AEERRF System	0.05 % 0.05 % 2.0 % 2.0 %	≥ 3600 and ≤ 4400 ≥ 3600 and ≤ 4400 ≥ 18000 and ≤ 28900 ≥ 14000 and ≤ 22800

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
CREF System	2.5 %	40
CRRF System	15.0 %	80
AEERRF System	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	3.0	≥ 18000 and ≤ 28900
EERRF System	3.0	≥ 14000 and ≤ 22800

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 SBGT System ≥ 21 and ≤ 25 CREF System ≥ 18 and ≤ 22 ACTION TO BE TAKEN IN THE EVENT OF A REPORTABLE EVENT IN PLANT 6.8 OPERATION A'I The following actions shall be taken for REPORTABLE EVENTS: The Commission shall be notified and a Licensee Event Report submitted pursuant to the requirements of Section 50,73 to 19 CFR Part 50, and . Each REPORTABLE BYENT shall be reviewed by the Onsite Review and Investigative b LA.I Function

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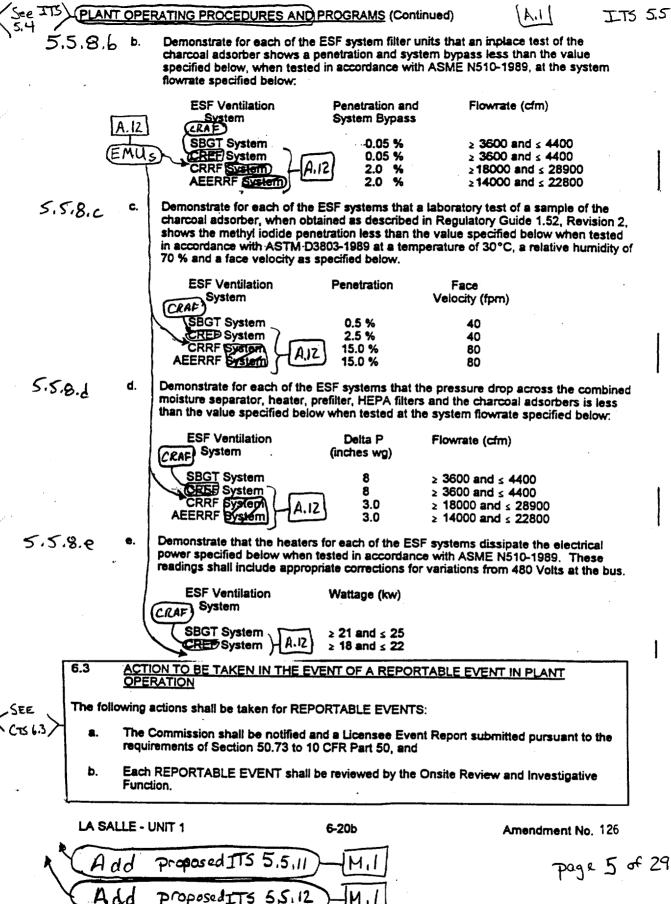
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Add

CTS 6.4

designated liternate. The incident <u>shall be reviewed by the Onsite and Offsite</u> <u>Review and Investigative Eunctions</u> 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 prossible and in all cases within one hour when site vice president and that		ADMI	NISTRATIVE CONTROLS
 SEF Records and reports of reportable events; Records of changes to operating principal items shall be retained for at least successful to verify that the surveillance requirements (see Section 4 of these specifications) are being mic. All equipment failing to meet surveillance requirements (see Section 4 of these specifications) are being mic. All equipment failing to meet surveillance requirements and source leak test results. 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 principal items of equipment pertaining to nuclear safety; Records and reports of reportable events; Records and periodic checks, inspection and/or calibrations performed to verify that the surveillance requirements (see Section 4 of these specifications) are being mic. All equipment failing to meet surveillance requirements and source leak test results. Records and/or logs relative to the following items shall be recorded in a manner co		6.4	ACTION TO BE TAKEN IN THE EVENT & SAPETY LIMIT IS EXCEEDED
 Construction shall not be resumed which all her resolutions for or his designated liternate. The incident shall be released by the Onlyte and Offsite Review and Thuesdigative Linerithous field a segrate literservent Repful for the state and offsite and offsite for the state literservent Repful for the state and offsite for the state and offsite and offsite and offsite and offsite and offsite and the state and offsite and the state and offsite and and and offsite and and offsite and and offsite and offsite and offsite and and offsite and offsite and offsite and and offsite		Xf a	safety limit is exceeded, the reactor shall be shut down immediately
 SEF Records and previous for principal maintenance and activities, including inspection and residence of the surveillance requirements and the surveillance requirements and the surveillance requirements and the corrective action taken shall be previous and the surveillance requirements and the surveillance requirements and the surveillance requirements and the corrective action taken shall be previous and previous and		Coper	ation shall not be resumed with authorized by the net fine conditions of HUA
 SEF SEF Records and reports of reportable events; Records and periodic checks, inspection and/or calibrations performed to verify that the surveillance requirements (see Section 4 of these superiodic changes to operation and the surveillance requirements; Records of normal plant operation, including power levels and periods of operation at each power level; Records and reports of reportable events; Records and periodic checks, inspection and/or calibrations performed to verify that the surveillance requirements (see Section 4 of these superiodic checks; inspection at each power level; Records and reports of reportable events; Records of changes to operating procedures; Stef Stef Records of changes to operating procedures; Shift Manager logs; and Byproduct material inventory records and source leak test results. 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; Conditional changes to operating procedures; Changes made to the plant as it is described in the SAR; 		desi	gnated Iternate. The incident shall be reviewed by the Onsite and Offsite ew and Investigative Functions and a secarate Sicensee event Report for
 6.5 <u>PLANT OPERATING RECORDS</u> 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: 1. Records of normal plant operation, including power levels and periods of operation at each power level; 2. 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: 1. 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; 		A	COCUMENTER CASH TAC BEORSMAN IN MCCOMMISSION WITH SACTION AN /S TALLI (FV)
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 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: 1. 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; 			
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 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; Changes made to the plant as it is described in the SAR; 			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
 7. Byproduct material inventory records and source leak test results. 8. 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: 1. 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; 			5. Records of changes to operating procedures;
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 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; 2. Changes made to the plant as it is described in the SAR; 			7. Byproduct material inventory records and source leak test results.
to nuclear safety; 2. Changes made to the plant as it is described in the SAR;	•	Β.	manner convenient for review and shall be retained for the life of the
			 Substitution or replacement of principal items of equipment pertaining to nuclear safety;
3. Records of new and spent fuel inventory and assembly histories;			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;			4. Updated, corrected, and as-built drawings of the plant;
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CTS 6.5.

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ACTION TO BE TAKEN IN THE EVENT A SAFETY LIMIT IS EXCEEDED 6 4 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. SEE CTS 6.4 Director of Safety Review shall be notified within 24 hours LAI 6.5 PLANT OPERATING RECORDS 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: A. Records of normal plant operation, including power levels and periods 1. 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; 2. 3. Records and reports of reportable events, Records and periodic checks, inspection and/or calibrations performed 4. 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; Shift Manager logs; and 6. Byproduct material inventory records and source leak test results 7. Records and/or logs relative to the following items shall be recorded in 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: Updated, concected, and as-built drawings of the plant; 4. page lof 4

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CTS 6,5 PLANT OPERATING RECORDS (Continued) Records of plant radiation and contamination surveys; LA.1 Records of offsite environmental monitoring surveys; 6. 7. Records of radiation exposure for all plant personnel, including al contractors and visitors to the plant, in accordance with 10 CFR Part 20: Records of radioactivity in liquid and gaseous waster released to 8. 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); 9. Records of individual staff members indicating qualifications, experience, training, and retraining; 10. 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: Records of Quality Assurance activities required by the QA Menual, except for bose items specified in Section 6.5.A; 14. 15. Records of reviews performed for changes made to procedures on equip-ment or reviews of tests and experiments pursuant to 10 CFR 50.59; Records of the service lives of all hydraulic and mechanical snubbers required by specification 3.7.9 including the date at which the ser-16. vice life commences and associated installation and maintenance records: 17. Records of analyses required by the radiological environmental monitoring program; Records of reviews performed for changes made to the OFFSITE BOSE CALCULATION MANUAL and the PROCESS CONTROL PROGRAM; and 18. 19. Records of pre-stressed concrete containment tendon surveillances. 5.6 REPORTING REQUIREMENTS In addition to the applicable reporting requirements of Title 10, Code of Federal Regulations, the following identified reports shall be submitted SEE TTS 5.6

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<u> </u> 2	LANT OP	ERATING RECORDS (Continued)	
	5.	Records of plant radiation and contamination surveys;	
	6.	Records of offsite environmental monitoring surveys;	
CTS	7.	Records of radiation exposure for all plant personnel, including all contractors and visitors to the plant, in accordance with 10 CFR Part 20;	
5	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);	
	10.	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;	
	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 ser- vice 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 OFFSITE DOSE CALCULATION MANUAL and the PROCESS CONTROL PROGRAM; and	
L	19	Records of pre-stressed concrete containment tendon surveillances.	

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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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TTS 5.6 Ail ADMINISTRATIVE CONTROLS 6.6 REPORTING REQUIREMENTS (Continued) to the director of the appropriate Regional Office of Inspection and Enforcemont unless otherwise noted. A.2 In accordance with locke 50.4 Routine Reports A. Startup Report A summary report of plant startup and power escalation testing shall pe submitted following (1) receipt of an operating license, (2) amendment to the license involving a planned increase in power level, (3) inscallation 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, themal, 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 sadisfactory 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 startum test program, (2) 90 days following resumption or commencement of commercial power operation, or (3) 9 months followtog 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. (A.3)2. (Add proposed ITS 5.6.1 Note) (Angual Repart by April 30 A tabulation shall be submitted on an annual basis prior to Harch 1) 5.6.1 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 20,400 of 10 CFR 20), e.g., reactor operations and surveil-Tance, inservice inspection, routine maintenance, special maintenance 2206 (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 electronic or body dose received from external sources shall be assigned to specific major work functions. A.6 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 bo the first sample in which the limit was exceeded; (2) Rebuilts of the Tast isotopic enalysis for radioiodin LA SALLE UNIT 1 6-23 Amendment No. \$5, 86

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ADMINISTRATIVE CONTROLS ITS 5.6 performed prior to exceeding the limit, results of analysis while limit was exceeded and results of one analysis after the radioiodine activity A , I 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 & hours prior to the first sample in which the limit was exceeded; (4) draph of the I-13% concentration and one other radioiodine isotope concentration in microcaries per gram as a function A.6 of time for the duration of the specific activity above the tready-state evel; and (5) The time duration when the specific activity of the primary coolant exceeded the radioiodine limit. 3. Annual Radiological Environmental Operating Report* 5.6.2 The Annual Radiological Environmental Operating Report covering the operation of the unit during the previous calendar year shall be submitted before May () 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 ODCH and (2) Sections IV.B.2, IV.B.3, and IV.C of A.1 Appendix I to 10 CFR Part 50. in accordance with IOCFR 50,362 5.6.3 4. Annual Radioactive Effluent Release Report** The Annual Radioactive Effluents 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 ODCK and PCP and (2) in conformance with 10 CFR 50.36a and Section IV.B.1 of Appendix I to 10 CFR Part 50. 5.6.4 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 addresses specified in 10 CFR 50.4 no later than the 15th of each month following the calendar month covered by the report. 4**.4** Add 2nd sentence Of proposed ITS 5.6.2 Note 5.62 NOTE -A single submittal may be made for a multi-unit station. 4 5,6,3 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.

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<u>CTS</u> 6.9

Monthly Operating Report (Continued)

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		shañ whic	be s	of any major changes to the radioactive waste treatment systems submitted with the Monthly Operating Report for the period in evaluation was reviewed and accepted by Onsite Review and tive Function.]
ſ	6.	Core	Opera	ating Limits Report	
		a.	CUDE	operating limits shall be established and documented in the OPERATING LIMITS REPORT before each reload cycle or any ining part of a reload cycle for the following:	
			(1)	The Average Planar Linear Heat Generation Rate (APLHGR) for Technical Specification 3.2.1.	
			(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.	
			(3)	The Linear Heat Generation Rate (LHGR) for Technical Specification 3.2.4.	
			(4)	The Rod Block Monitor Upscale Instrumentation Setpoints for Technical Specification Table 3.3.6-2.	
		b. -	_ chal'	analytical methods used to determine the core operating limits l be those previously reviewed and approved by the NRC. For lle County Station Unit 1, the topical reports are:	
			(1)	ANFB Critical Power Correlation, ANF-1125(P)(A) and Supplements 1 and 2, Advanced Nuclear Fuels Corporation, April 1990.	
			(2)	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.	
			(3)	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.	
		_	(4)	COTRANSA 2: A Computer Program for Boiling Water Reactor Transient Analysis, ANF-913(P)(A), Volume I, Revision 1 and Volume 1 Supplements 2, 3, and 4, Advanced Nuclear Fuels Corporation, August 1990.	
		l	<	See ITS 5.6> page 3 of 6	
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ADMINISTRATIV	A.1	ITS 5.6				
Monthly Operating Report (Continued)						
$ \begin{pmatrix} See \\ CTS 6.9 \end{pmatrix} \begin{pmatrix} A \text{ report of any major changes to the radioactive waste treatment systems} \\ which the submitted with the Monthly Operating Report for the period in which the evaluation was reviewed and accepted by Onsite Review and Investigative Function. } $						
5.6.5 6. Core Operating Limits Report						
5.6.5.a a.	Core operating limits shall be e CORE OPERATING LIMITS REPORT bef remaining part of a reload cycle	stablished and documented in the ore each reload cycle or any for the following:	•			
5.6.5.a.1	 The Average Planar Linear Technical Specification 3. 	Heat Generation Rate (APLHGR) for 2.1.				
5.6.5.a.2	MCPR limits and power and		A.2			
5.6.5.0.3	(3) The Linear Heat Generation Specification 3.2.4.	Rate (LHGR) for Technical				
5.6.5. a. 4	(4) The Rod Block Monitor Upsc Technical Specification Ta	ale Instrumentation Setpoints for ble 3.3.6-2.				
5.6.5.6 b.	The analytical methods used to d shall be those previously review LaSalle County Station Unit 1, t	etermine the core operating limits ed and approved by the NRC. For he topical reports are:	•			
5,6.5,6.1	 ANFB Critical Power Correl Supplements 1 and 2, Advan April 1990. 	ation, ANF-1125(P)(A) and ced Nuclear Fuels Corporation,				
5.6.5.6.2	(2) Letter, Ashok C. Thadani ("Acceptance for Referencin BWR Fuel Design," July 28,	NRC) to R.A. Copeland (SPC), g of ULTRAFLOW ^M Spacer on 9x9-IX/X 1993.				
5.6.5.6.3	for Boiling Water Reactors Critical Power Methodology Methodology for Analysis of	e, XN-NF-524(P)(A) Revision 2, and Supplement 2, Advanced Nuclear Fuels				
5.6.5.6.4	Transient Analysis, ANF-91	ogram for Boiling Water Reactor (3(P)(A), Volume 1, Revision 1 and and 4, Advanced Nuclear Fuels				

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5.6.5.b.5	(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.
5.6.5.6.6	(6)	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 Nucle Fuels Corporation, November 1990.
5.6.5.67	(7)	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.
5.6.5.5.8	(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.
5.6.5.b.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.b.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.b.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.D.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.
5.6.5.6.13	(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.
6.5. b.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.

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A.1

Core Operating Limits Report (Continued)

5.6.5.6.6 (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.

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- 5.65.617 (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.
- 565.6.9 (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).
- 5-4.5.b.20 (20) Commonwealth Edison Topical Report NFSR-0085, Supplement 1, "Benchmark of BWR Nuclear Design Methods Quad Cities Gamma Scan Comparisons," (latest approved revision).
- 5.6.5.521 (21) Commonwealth Edison Topical Report NFSR-0085, Supplement 2, "Benchmark of BWR Nuclear Design Methods Neutronic Licensing Analyses," (latest approved revision).
- 5.6.5.6.22 (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.
- *S.b. S.b.* 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.b.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 b 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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CTS 6.7 ADMINISTRATIVE CONTROLS The core operating limits-shall be determined so that all с. 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. The CORE OPERATING LIMITS REPORT, including any mid-cycle d. SEE revisions or supplements thereto, shall be provided upon ITSSID issuance, for each reload cycle, to the U.S. Nuclear Regulatory Commission Document Control Desk with copies to the Regional Administrator and Resident Inspector. в. Deleted Unique Reporting Requirements c. 1. Special Reports shall be submitted to the Regional Administrator of the NRC Regional Office within the time period specified for each report. LA. PROCESS CONTROL PROGRAM (RCP)* . 7 6.7.1 The PCP shall be approved by the Commission prior to implementation. 6.7.2 Licequee initiated changes to the PCP: a. Shall be documented and records of reviews performed shall be retained by required by Specification 6.5.B.18. This documentation shall contain: Sufficient Information to support the change together with the 1) appropriate analyses or evaluations justifying the change(s), and A determination that the change will maintain the overall con-2) formance 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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• •	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.	
	5.6.5.4 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 <u>Commission</u> Document Control Desk with copies to the Regional A.2 Administrator and Resident Inspector.	
	B. Deleted	
	Unique Reporting Requirements	
	1. Special Reports shall be submitted to the regional Absinistrator of A.C. the NHC Medional Office rise the time period specified by sach A.S. (Third A.S.	<u>1</u>
	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:	
(SEE A)	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 con- formance 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.	

AII

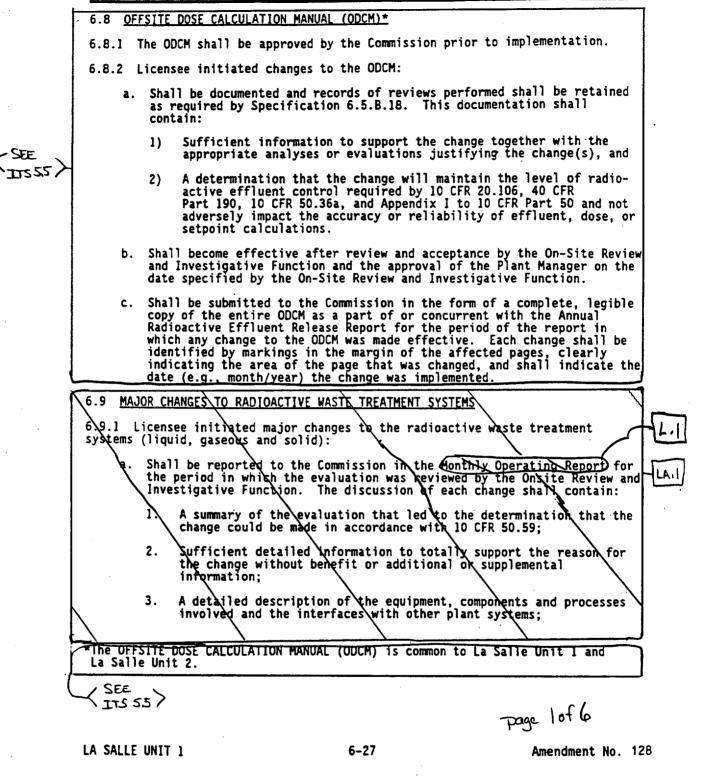
LA SALLE UNIT 1

ADMINISTRATIVE CONTROLS

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CTS 6.9



	ADMINIS	TRATIVE CONTROLS	[A.1]		ITS 5.5
5,5,1	6.8 <u>OF</u>	FSITE DOSE CALCULATION	MANUAL (ODCM) *	-	[A.9]
	(8.1	The ODCM shall be appro	ved by the Commission	prior to implement	ation.
5,5,1ic	6.8.2	Licensee initiated chan	ges to the ODCM:		
5.5.1. C	,1 a.	Shall be documented a as required by Specificontain:	nd records of reviews ication 6.5.B.18. Th	performed shall be is documentation sha	retained A.10
5.5,1.0	, 1 (a)	appropriate anal	mation to support the yses or evaluations j	ustifying the change	e(s), and $A.11$
5.5,1, C	, I(b)	Part 190, 10 CFR	that the change will control required by 1 50.36a, and Appendix the accuracy or reli tions.	I to 10 CFR Part 50	and not
5.5.1.0	.2 b.	Shall become effective and Investigative Fund Gate specified by the	<u>ction and/the approva</u>] of the criant Manag	ite Review
5,5,1, c.	³ с.	Shall be submitted to copy of the entire ODO Radioactive Effluent F which any change to the identified by markings indicating the area of date (e.g., month/year	CM as a part of or co Release Report for th DE ODCM was made effe in the margin of th the page that was c	ncurrent with the An e period of the repo ctive. Each change e affected pages, cl hanged. and shall in	nual rt in shall be early
	6.9 <u>Ma</u>	OR CHANGES TO RADIOACT	VE WASTE TREATMENT S	YSTEMS	
· .	6.9.1 L systems	icensee initiated major (liquid, gaseous and so	changes to the radiu blid):	pactive waste treatm	ent
SEE	a.	Shall be reported to t the period in which th Investigative Function	e evaluation was rev	iewed by the Onsite	Review and
\ Стs 6.9≯		 A summary of the change could be m 	evaluation that led f ade in accordance wit	to the determination th 10 CFR 50.59;	that the
•		 Sufficient detail the change withou information; 	ed information to to t benefit or addition	tally support the real al or supplemental	ason for
		3. A detailed descri involved and the	ption of the equipmer interfaces with other	nt, components and pr plant systems;	rocesses
5.5,1	*The OFF La Sall	SITE DOSE CALCULATION M e Unit 2.	ANUAL (ODCM) is commo	on to La Salle Unit :	land

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ADM1	INISTI	RATIV	E CONTROLS CT569
MAJO	R CH/	ANGES	TO RADIOACTIVE WASTE TREATMENT SYSTEMS (Continued)
		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 actual releases for the period to when the changes are to be made;
		7.	An estimate of the exposure to plant operating personnel as a result of the change; and
		8.	Documentation of the fact that the change was reviewed and found acceptable by the Onsite Review and Investigative Function.
	b.	Sha1 and	become effective upon review and acceptance by the Onsite Review Investigative Function.

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