ATTACHMENT B

MARKED-UP TECHNICAL SPECIFICATIONS

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ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

FUNCTIONAL UNIT	CHANNEL CHECK	CHANNEL CALI- <u>BRATION</u>	CHANNEL OPERA- TIONAL TEST	TRIP ACTUATING DEVICE OPERA- TIONAL TEST	ACTUATION LOGIC_TEST	MASTER RELAY TEST	SLAVE RELAY TEST	MODES FOR WHICH SURVEILLANCE IS REQUIRED
1. Safety Injection, (Reactor Trip Feedwater Isolation, Start Diesel Generators, Containment Fan Cooler Units, and Component Cooling Water)	7			- 				
a. Manual Initiation	N.A.	N.A.	N.A.	Ŗ	N.A.	N.A.	N.A.	1, 2, 3, 4
b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	Ņ́.A.	M(1)	M(1)	(A)A)	1, 2, 3, 4
c. Containment Pressure- High	. S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3, 4
d. Pressurizer Pressure-Low	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3
e. DELETED				s Ja				ł
f. Steam Line Pressure-Low	S	R	Q	N.A.	N.A	N.A.	N.A.	1, 2, 3 🛞
2. Containment Spray				4 4				
a. Manual Initiation	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3, 4
b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	Ø,	1, 2, 3, 4
c. Containment Pressure- High-High	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3, 4💬
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DIABLO CANYON - UNITS 1 & 2

Amendment Nos. 84-8-83-87-8-86-89 & 88 Effective Unit 1 Cycle 7

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TABLE 4.3-2 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION -SURVEILLANCE REQUIREMENTS

FUNCTIONAL_UNIT	CHANNEL <u>CHECK</u>	CHANNEL CALI- <u>BRATION</u>	CHANNEL OPERA- TIONAL TEST	TRIP ACTUATING DEVICE OPERA- TIONAL <u>TEST</u>	ACTUATION LOGIC TEST	MASTER RELAY <u>TEST</u>	SLAVE RELAY . <u>TEST</u>	MODES WHICH SURVE IS_RE	FOR ILLA	
 3. Containment Isolation a. Phase "A" Isolation 1) Manual 2) Automatic Actuation Logic and Actuation Relays 	N.A. N.A.	N.A. N.A.	N.A. N.A.	R N.A.	N.A. M(1)	N.A. M(1)		1, 2, 1, 2, R	3, 3, 3,	44
b. Phase "B" Isolation 1) Manual 2) Automatic Actuation Logic and Actuation Relays	N.A. N.A.	N.A. N.A.	N.A. N.A.	R N.A.	N.A. M(1)	N.A. M(1)	N.A.	1, 2, 1, 2, 1, 2,	3, 3,	4
3) Containment Pressure-High-High c. Containment Ventilation Isolat 1) Automatic Actuation Logic and Actuation Palays	S cion N.A.	R N.A.	Q N.A.	Ņ.A. N.A.	N.A. M(1)	N.A. M(1)	N.A.	1, 2, 1, 2,	3, 3,	4 [, 4
 2) Plant Vent Noble Gas Activity-High (RM-14A and 14B)(a) 3) Safety Injection 4) Containment Ventilation Exhaust Radiation-High (RM-44A and 44B)(b) 	S	R See Item 1. R	M(2) above for M(2)	N.A. all Safety J N.A.	N.A. Injection Surv	N.A. eillance Req N.A.	N.A. uiremen N.A.	1, 2, nts.	3,	4 •

(a)The requirements for Plant Vent Noble Gas Activity-High (RM-14A and 14B) are not applicable following installation of RM-44A and 44B.

(b)The requirements for Containment Ventilation Exhaust Radiation-High (RM-44A and 44B) are applicable following installation of RM-44A and 44B.

DIABLO CANYON - UNITS 1 & 2

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Amendment Nos, 84-8-83-87-8-86-89 & 88 Effective Unit 1 Cycle 7



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TABLE 4.3-2 (Continued) ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS TRIP

FUNCTIONAL UNIT	Channel <u>Check</u>	CHANNEL CALI- <u>BRATION</u>	CHANNEL OPERA- TIONAL TEST	ACTUATING DEVICE OPERA- TIONAL TEST	ACTUATION LOGIC TEST	MASTER RELAY TEST	SLAVE RELAY TEST	MODES FOR WHICH SURVEILLANCE IS REQUIRED
4. Steam Line Isolation				· · ·			·	
a. Manual	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3
b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	Ø,	1, 2, 🍎
c. Containment Pressure- High-High	S	R	Q -	N.A.	N.A.	N.A.	N.A.	1, 2, 3
d. Steam Line Pressure-Low	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3
e. Negative Steam Line Pressure Rate-High	S	R	Q	N.A.	N.A.	N.A.	N.A.	3(3)
5. Turbine Trip and Feedwater Isolation								
a. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	Ø	1, 2
b. Steam Generator Water Level-High-High	S	R	Q.	N.A.	N.A.	N.A.	ER N.A.	1, 2
6. Auxiliary Feedwater			•		'			
a. Maņual	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3
b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)		1, 2, 3
c. Steam Generator Water Level-Low-Low				•			R	, *
1) Steam Generator Water Level-Low-Low	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3
2) RCS Loop ∆T	N.A.	R	Q	5 N.A	N.A	N.A	N.A	1, 2, 3
DIABLO CANYON - UNITS 1 & 2			3/4 3-34			Amende	ment Nos. tive Unit	61-and-60 8 1 Cycle 7



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TABLE 4.3-2 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

FUNCTIONAL_UNIT	CHANNEL <u>CHECK</u>	CHANNEL CALI- <u>BRATION</u>	CHANNEL OPERA- TIONAL TEST	TRIP ACTUATING DEVICE OPERA- TIONAL TEST	ACTUATION LOGIC TEST	MASTER RELAY TEST	SLAVE RELAY TEST	MODES FOR WHICH SURVEILLANCE IS REQUIRED
6. Auxiliary Feedwater (Continued)				۵				
d. Undervoltage - RCP	N.A.	R	N.A.	R	N.A.	• N.A.	N.A.	1
e. Safety Injection	See Item 1.	above for a	11 Safety In	jection Surv	eillance Req	uirements.		
7. Loss of Power			,		~			
a. 4.16 kV Emergency Bus . Level 1	N.A.	R	N.A.	R	N.A.	. N.A.	N.A.	1, 2, 3, 4
b. 4.16 kV Emergency Bus Level 2	N.A.	R	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3, 4
8. Engineered Safety Feature Actuation System Interlocks								
a. Pressurizer Pressure, P-11	N.A.	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3
b. DELETED	,			ч н				
c. Reactor Trip, P-4	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3
		TAB	LE_NOTATIONS				-	
 Each train shall be tested at For the Plant Vent Activity-H Trip function automatically b below P-11 when Safety Inject 	least every ligh monitor locked above	62 days on only, a CHAN P-11 (Press Line Pressu	a STAGGERED INEL FUNCTION Surizer Press	TEST BASIS. WAL TEST shal sure Interloc ot blocked	l be perform k) setpoint	ned at least and is autom	once e atical	very 31 days. ly blocked
(4) For Units 1 and 2, Cycle 7 an minimum, once per 18 months d previous 92 days	d after: Ex luring refuel	cept relays and durf	k612A, K614 ng each Colo	3, K615A, and Shutdown un	K615B which less they have	ch shall be t ave been test	ested, ed wit	at a hin the
DIABLO CANYON - UNITS 1 & 2			3/4 3-35		Ame	ndment Nos. (ective Unit	it and	60 84-&-83 8 7

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INSTRUMENTATION

BASES

<u>REACTOR PROTECTION SYSTEM and ENGINEERED SAFETY FEATURES ACTUATION SYSTEM</u> <u>INSTRUMENTATION</u> (Continued)

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To accommodate the instrument drift that may occur between operational tests and the accuracy to which setpoints can be measured and calibrated, Allowable Values for the setpoints have been specified in Table 3.3-4. Operation with setpoints less conservative than the Trip Setpoint, but within the Allowable Value, is acceptable.

The methodology to derive the Trip Setpoints is based upon combining all of the uncertainties in the channel. Inherent to the determination of the Trip Setpoints are the magnitudes of these channel uncertainties. Sensor and rack instrumentation utilized in these channels are expected to be capable of operating within the allowances of these uncertainty magnitudes.

ESF response times specified in Table 3.3-5, which include sequential operation of the RWST and VCT valves (Table Notations 4 and 5), are based on values assumed in the non-LOCA safety analyses. These analyses take credit for injection of borated water from the RWST. Injection of borated water is assumed not to occur until the VCT charging pump suction isolation valves are closed following opening of the RWST charging pump suction isolation valves. When the sequential operation of the RWST and VCT valves is not included in the response times (Table Notation 7), the values specified are based on the LOCA analyses. The LOCA analyses takes credit for injection flow regardless of the source. Verification of the response times specified in Table 3.3-5 will assure that the assumptions used for the LOCA and non-LOCA analyses with respect to the operation of the VCT and RWST valves are valid.

Undervoltage protection will generate a loss of power diesel generator start in the event a loss of voltage or degraded voltage condition occurs. The diesel generators provide a source of emergency power when offsite power is either available or is insufficiently stable to allow safe unit operation. The first level undervoltage relays (FLURs) detect the loss of bus voltage (less than 69% bus voltage). The second level undervoltage relays (SLURs) provide a second level of undervoltage protections which protects all Class 1E loads from short or long term degradation in the offsite power system. The SLUR allowable value is the minimum steady state voltage needed on the 4160 volt vital bus to ensure adequate voltage is available for safety related equipment at the 4160 volt, 480 volt, and 120 volt levels.

INSERT A

DIABLO CANYON - UNITS 1 & 2

B 3/4 3-1a

Amendment Nos. 51-8-50-84-8-83-86 and 85 March 7, 1994

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Insert A Page B 3/4 3-1a

For slave relays in the ESF actuation system circuit that are Potter & Brumfield type MDR relays, the SLAVE RELAY TEST is performed on a refueling frequency. The test frequency is based on relay reliability assessments presented in WCAP-13878, "Reliability Assessment of Potter and Brumfield MDR Series Relays," WCAP-13900, "Extension of Slave Relay Surveillance Test Intervals," and WCAP-14117, "Reliability Assessment of Potter and Brumfield MDR Series Relays." These reliability assessments are relay specific and apply only to Potter and Brumfield MDR series relays. Note that for normally energized applications, the relays may have to be replaced periodically in accordance with the guidance given in WCAP-13878 for MDR relays.

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ATTACHMENT C

PROPOSED TECHNICAL SPECIFICATION PAGES

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TABLE 4.3-2

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

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FUNCT]	I <u>ONAL_UNIT</u>	CHANNEL <u>CHECK</u>	CHANNEL CALI- <u>BRATION</u>	CHANNEL OPERA- TIONAL TEST	TRIP ACTUATING DEVICE OPERA- TIONAL <u>TEST</u>	ACTUATION LOGIC TEST	MASTER RELAY <u>TEST</u>	SLAVE RELAY <u>TEST</u>	MODES FOR WHICH SURVEILLA <u>IS REQUIR</u>	NCE ED
1. Sat Fee Die Far Coc	fety Injection, (Reactor Trip edwater Isolation, Start esel Generators, Containment a Cooler Units, and Component oling Water)			-						
a.	Manual Initiation	N.A	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3	, 4
b.	Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	R	1, 2, 3	, 4
c.	Containment Pressure- High	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3	, 4
d.	Pressurizer Pressure-Low	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3	
e.	DELETED									
f.	Steam Line Pressure-Low	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3	
2. Cor	ntainment Spray									
a.	Manual Initiation	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3	, 4
b.	Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	R	1, 2, 3	, 4]
c.	Containment Pressure- High-High	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3	, 4
DIABLO) CANYON - UNITS 1 & 2			3/4 3-32				Amendment	t Nos8	د



TABLE 4.3-2 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

FUNCTIONAL	<u>UNIT</u>	CHANNEL <u>Check</u>	CHANNEL CALI- <u>BRATION</u>	CHANNEL OPERA- TIONAL TEST	ACTUATING DEVICE OPERA- TIONAL <u>TEST</u>	ACTUATION LOGIC TEST	MASTER RELAY <u>TEST</u>	SLAVE RELAY <u>TEST</u>	MODE WHIC SURV IS_F	:S FC ∶H /EILI <u>\EQU</u>)r Lan(<u>Irei</u>	CE D
3. Containm	nent Isolation "A" Isolation											
1) Ma 2) Au	anual Itomatic Actuation	N.A. N.A.	N.A. N.A.	N.A. N.A.	R N.A.	N.A. M(1)	N.A. M(1)	N.A. R	1, 2 1, 2	2, 3, 2, 3,	, 4 , 4	
Re 3) Sa	alays afety Injection		See Item 1.	above for a	1 Safety In	jection Surve	eillance Requ	iremen	nts.			
D. Phase 1) Ma 2) Au Lo	anual atic Actuation ogic and Actuation	N.A. N.A.	N.A. N.A.	N.A. N.A.	R N.A.	N.A. M(1)	N.A. M(1)	N.A. R	1, 2 1, 2	2, 3, 2, 3;	, 4 , 4	I
Re 3) Co Pr	elays ontainment ressure-High-High	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2	2, 3 _:	, 4	
c. Conta 1) Au Lo	ainment Ventilation Isolat utomatic Actuation ogic and Actuation	ion N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	R	1, 2	2, 3,	, 4	1
2) P1 Ac	elays lant Vent Noble Gas ctivity-High (RM-14A	S	R	M(2)	N.A.	N.A.	N.A.	N.A.	1, 2	2, 3,	, 4	
3) Sa 4) Co	afety Injection phtainment Ventilation		See Item 1.	above for a	ll Safety In;	jection Surve	eillance Requ	uiremer	its.			
Ex (R	khaust Radiation-High RM-44A and 44B)(b)	S	R	M(2)	N.A.	N.A.	N.A.	N.A.	1, 7	2, 3	, 4	

(a)The requirements for Plant Vent Noble Gas Activity-High (RM-14A and 14B) are not applicable following installation of RM-44A and 44B.

(b)The requirements for Containment Ventilation Exhaust Radiation-High (RM-44A and 44B) are applicable following installation of RM-44A and 44B.

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TABLE 4.3-2 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

FUNCT	TIONAL UNIT	CHANNEL <u>Check</u>	CHANNEL CALI- <u>BRATION</u>	CHANNEL OPERA- TIONAL TEST	TRIP ACTUATING DEVICE OPERA- TIONAL TEST	ACTUATION LOGIC TEST	MASTER RELAY TEST	SLAVE RELAY <u>TEST</u>	MODES FOR WHICH SURVEILLANCE IS_REQUIRED
4. St	team Line Isolation								
a	. Manual	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3
b	. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	R	1, 2, 3
C	. Containment Pressure- High-High	S	R_	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3
d	. Steam Line Pressure-Low	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3
e	. Negative Steam Line Pressure Rate-High	S	R	Q	N.A.	N.A.	N.A.	N.A.	3(3)
5. Tu I:	urbine Trip and Feedwater solation								
a	. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	R	1, 2
b	. Steam Generator Water Level-High-High	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2
6. A	uxiliary Feedwater								
a	. Manual	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3
b	. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	R	1, 2, 3
с	. Steam Generator Water Level-Low-Low								
÷	1) Steam Generator Water Level-Low-Low	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3
	2) RCS Loop ΔT	N.A.	R	Q	N.A	N.A	N.A	N.A	1, 2, 3
DIAB	LO CANYON - UNITS 1 & 2			3/4 3-34			Ame	endment N	os &

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TABLE 4.3-2 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

	: ,		CHANNEI	CHANNEL	TRIP ACTUATING DEVICE OPERA-	-	MASTER	SI AVF	MODES FOR
<u>FU</u> 6.	<u>NCTIONAL_UNIT</u> Auxiliary Feedwater (Continued)	CHANNEL <u>CHECK</u>	CALI- BRATION	TIONAL TEST	TIONAL TEST	ACTUATION LOGIC TEST	RELAY	RELAY TEST	SURVEILLANCE IS REQUIRED
	d. Undervoltage - RCP	N.A.	R	N.A.	R	N.A	N.A.	N.A.	1
	e. Safety Injection	See Item 1.	above for a	11 Safety In	jection Surv	eillance Req	uirements.		i
7.	Loss of Power								•
	a. 4.16 kV Emergency Bus Level 1	N.A.	R	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3, 4
	<pre>b. 4.16 kV Emergency Bus Level 2</pre>	N.A.	R	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3, 4
8.	Engineered Safety Feature Actuation System Interlocks								
	a. Pressurizer Pressure, P-11	N.A.	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3
	b. DELETED								
	c. Reactor Trip, P-4	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3
			TAB	LE NOTATIONS					

Each train shall be tested at least every 62 days on a STAGGERED TEST BASIS. For the Plant Vent Activity-High monitor only, a CHANNEL FUNCTIONAL TEST shall be performed at least once every 31 days. Trip function automatically blocked above P-11 (Pressurizer Pressure Interlock) setpoint and is automatically blocked below P-11 when Safety Injection on Steam Line Pressure-Low is not blocked. $\begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix}$

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INSTRUMENTATION

BASES

<u>REACTOR PROTECTION SYSTEM and ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION</u> (Continued)

To accommodate the instrument drift that may occur between operational tests and the accuracy to which setpoints can be measured and calibrated, Allowable Values for the setpoints have been specified in Table 3.3-4. Operation with setpoints less conservative than the Trip Setpoint, but within the Allowable Value, is acceptable.

The methodology to derive the Trip Setpoints is based upon combining all of the uncertainties in the channel. Inherent to the determination of the Trip Setpoints are the magnitudes of these channel uncertainties. Sensor and rack instrumentation utilized in these channels are expected to be capable of operating within the allowances of these uncertainty magnitudes.

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For slave relays, in the ESF actuation system circuit that are Potter and Brumfield type MDR relays, the SLAVE RELAY TEST is performed on a refueling frequency. The test frequency is based on relay reliability assessments presented in WCAP-13878, "Reliability Assessment of Potter and Brumfield MDR Series Relays," and WCAP-13900, "Extension of Slave Relay Surveillance Test Intervals." The reliability assessments are relay specific and apply only to Potter and Brumfield MDR series relays. Note that for normally energized applications, the relays may have to be replaced periodically in accordance with the guidance given in WCAP-13878 for MDR relays.

Undervoltage protection will generate a loss of power diesel generator start in the event a loss of voltage or degraded voltage condition occurs. The diesel generators provide a source of emergency power when offsite power is either available or is insufficiently stable to allow safe unit operation. The first level undervoltage relays (FLURs) detect the loss of bus voltage (less than 69% bus voltage). The second level undervoltage relays (SLURs) provide a second level of undervoltage protections which protects all Class 1E loads from short or long term degradation in the offsite power system. The SLUR allowable value is the minimum steady state voltage needed on the 4160 volt vital bus to ensure adequate voltage is available for safety related equipment at the 4160 volt, 480 volt, and 120 volt levels.

DIABLO CANYON - UNITS 1 & 2

Amendment Nos. &

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ATTACHMENT D

- Westinghouse Electric Corporation Application for Withholding Proprietary Information from Public Disclosure (N. J. Liparulo to Document Control Desk, Attention Mr. William T. Russell), CAW-94-739, dated October 17, 1994
- Affidavit CAW-94-739 of Henry A. Sepp, Manager, Regulatory and Licensing Initiatives, Westinghouse Electric Corporation, dated October 17, 1994
- Proprietary Information Notice
- Copyright Notice

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