

September 7, 1983

Mr. Harold R. Denton, Director Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Washington, DC 20555

Subject: LaSalle County Station Units 1 and 2

Degraded Voltage Modification

Unit 1 Operating License Condition 2.C.20

NRC Docket Nos. 50-373 and 50-374

References (a): NUREG 0519, LaSalle County Station

SER Section 8.2.2.2.

(b): FSAR Section 8.2.3.3.

(c): NRC License NPF-11, Condition 2.C.20.

Dear Mr. Denton:

References (a) and (b) require us to add a second level of undervoltage protection to the 4160 volt ESF buses. After we carefully reviewed the design that we issued for construction against the requirements of SER section 8.2.2.2, we determined that the design for ESF Div. I and II may not meet position 2 which requires that load shedding of the emergency buses be automatically prevented when the onsite power sources (diesel generators) are supplying power to the buses. The preliminary design that we submitted to the NRC on February 20, 1981, did comply with this requirement because it provided automatic bypass of both the first and second levels of undervoltage protection (see page 8-6 of the SER). However, the present design does not provide automatic bypass of the first level of the undervoltage protection which initiates load shedding. Our interpretation of this requirement is that it only applies to the second level of undervoltage protection. Therefore, we would like to clarify this item with the NRC and request your concurrence with the design.

Enclosed please find the Unit 1 and 2 electrical schematic drawings affected by this design change. A list of the attached drawings is provided in Attachment A.

In the preliminary design both levels of undervoltage protection initiated the same action. The present design separates the functions of each undervoltage system. When the bus voltage drops below 92% of rated, the second level will trip the system auxiliary transformer (SAT), unit tie, and bus tie circuit breakers to isolate the bus, start the diesel generator, and prevent the ECCS pumps (LPCS and RHR) from starting. When

8309140060 830907 PDR ADDCK 05000373 E PDR DRAWINGS 4 SETS TO PM 1 SET TO CE 300/5

ATTACHMENT A

List of Attached Drawings

Unit 1 Drawing	Rev.	Unit 2 Drawing	Rev.
1E-0-4412AA	P1	1E-0-4412AB	P1
1E-1-4000B	H1	1E-2-4000B	G1
1E-1-4000PG	H2	1E-2-4000PG	G2
1E-1-4000PJ	H2	1E-2-4000PJ	G2
1E-1-4000PK	G2	1E-2-4000PK	C
1E-1-4005AJ	K2	1E-2-4005AJ	G2
1E-1-4005AK	J2	1E-2-4005AK	G2
1E-1-4005AL	F2	1E-2-4005AL	F2
1E-1-4005AM	J2	1E-2-4005AM	Н
1E-1-4005AQ	G2	1E-2-4005AQ	G2
1E-1-4005AR	H2	1E-2-4005AR	G2
1E-1-4005AS	F2	1E-2-4005AS	E2
1E-1-4005AT	J2	1E-2-4005AT	Н
1E-1-4005CS	E2	1E-2-4005CS	E2
1E-1-4005CT	E2	1E-2-4009AA	L1
1E-1-4009AA	R1	1E-2-4205AH	B1
1E-1-4205AH	81	1E-2-4220AH	N
1E-1-4220AH	R2	1E-2-4220AK	J
1E-1-4220AK	S2	1E-2-4222AB	L
1E-1-4222AB	Mi	1E-2-4223AA	M
1E-1-4223AA	J3	1E-2-4223AB	K
1E-1-4223AB	R2	1E-2-4223AC	L
1E-1-4223AC	N2		