



SOUTHERN CALIFORNIA  
**EDISON**

An EDISON INTERNATIONAL Company

R. W. Krieger  
Vice President  
Nuclear Generation

October 28, 1996

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Subject: Docket Nos. 50-361 and 50-362  
Supplemental Report  
Licensee Event Report No. 96-002, Revision 1  
San Onofre Nuclear Generating Station, Units 2 and 3

Reference: Letter, R. W. Krieger (Edison) to USNRC Document  
Control Desk, dated March 8, 1996

The referenced letter provided Licensee Event Report (LER) 96-002 reporting a condition that could have potentially caused the logarithmic power level indication to become decalibrated. The CE analysis performed after the original submittal determined that the logarithmic power level channels were operable at all times; consequently, Edison is revising the LER accordingly. Since this condition is applicable to Units 2 and 3, a single report for Unit 2 is being submitted in accordance with NUREG-1022. Neither the health nor the safety of plant personnel or the public was affected by this occurrence.

Sincerely,

Enclosure: LER No. 96-002, Revision 1

cc: L. J. Callan, Regional Administrator, NRC Region IV  
J. E. Dyer, Director, Division of Reactor Projects, NRC  
Region IV  
K. E. Perkins, Jr., Director, Walnut Creek Field Office, NRC  
Region IV  
J. A. Sloan, NRC Senior Resident Inspector, San Onofre Units  
2 & 3  
M. B. Fields, NRC Project Manager, San Onofre Units 2 and 3  
Institute of Nuclear Power Operations (INPO)

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LICENSEE EVENT REPORT (LER)																											
Facility Name (1) <b>SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2</b>												Docket Number (2) <b>0   5   0   0   0   3   6   1</b>				Page (3) <b>1   1   of   0   1</b>											
Title (4) <b>Potential Decalibration of Logarithmic Power Level Instrumentation</b>																											
EVENT DATE (5)			LER NUMBER (6)					REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)																
Month	Day	Year	Year	///	Sequential Number	///	Revision Number	Month	Day	Year	Facility Names				Docket Number(s)												
0	2	0	9	9	6	9	6	---	0	0	2	---	0	1	1	0	2	8	9	6	<b>SONGS UNIT 3</b>				<b>0   5   0   0   0   3   6   2</b>		
OPERATING MODE (9) <b>1</b>			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10CFR (Check one or more of the following) (11)																								
POWER LEVEL (10) <b>0   2   9</b> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>			<input type="checkbox"/> 20.402(b)					<input type="checkbox"/> 20.40(c)					<input type="checkbox"/> 50.73(a)(2)(iv)					<input type="checkbox"/> 73.71(b)									
			<input type="checkbox"/> 20.405(a)(1)(i)					<input type="checkbox"/> 50.36(c)(i)					<input type="checkbox"/> 50.73(a)(2)(v)					<input type="checkbox"/> 73.71(c)									
			<input type="checkbox"/> 20.405(a)(1)(ii)					<input type="checkbox"/> 50.36(c)(2)					<input type="checkbox"/> 50.73(a)(2)(vii)					<input checked="" type="checkbox"/> Other (Specify in									
			<input type="checkbox"/> 20.405(a)(1)(iii)					<input type="checkbox"/> 50.73(a)(2)(i)					<input type="checkbox"/> 50.73(a)(2)(viii)(A)					Abstract below and									
			<input type="checkbox"/> 20.405(a)(1)(iv)					<input type="checkbox"/> 50.73(a)(2)(ii)					<input type="checkbox"/> 50.73(a)(2)(viii)(B)					in text)									
<input type="checkbox"/> 20.405(a)(1)(v)					<input type="checkbox"/> 50.73(a)(2)(iii)					<input type="checkbox"/> 50.73(a)(2)(x)					Voluntary												
LICENSEE CONTACT FOR THIS LER (12)																											
Name <b>R. W. Krieger, Vice President, Nuclear Generation</b>												TELEPHONE NUMBER <b>7   1   4   3   6   8   -   6   2   5   5</b>															
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																											
CAUSE	SYSTEM	COMPONENT	MANUFAC.-	REPORTABLE	//////	CAUSE	SYSTEM	COMPONENT	MANUFAC.-	REPORTABLE	//////																
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SUPPLEMENTAL REPORT EXPECTED (14)												Expected Submission Date (15)		Month Day Year													
<input type="checkbox"/> Yes (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO															
ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)																											

On 2/9/96, ABB Combustion Engineering (CE) notified Edison that a potential non-conservatism in the calibration of logarithmic (log) power channels [IG] reported by the Waterford Station (Waterford LER 50-382/96-003) may exist at San Onofre Units 2 and 3. At 10:45 PST, Edison determined that the Waterford condition did apply to SONGS 2 and 3, and existed during previous plant startups. Edison provided a 10CFR50.72(b)(2)(iii)(D) report to the NRC at 1427 PST (Log No. 29965).

This condition resulted from calibrating the log power channels at 100% power (chosen to allow correlation to plant power from heat balance methods). While this method is accurate at full power, physics effects may cause the log power indication to vary significantly from actual plant power during low power operation (CEA position, temperature shadowing, boron changes, etc.). Initially, CE estimated these effects could cause the log power trip [JC] to be high by a factor of two but less than a factor of 10.

Subsequent to the submittal of this report, CE reanalyzed these effects and demonstrated: (1) the potential errors were much smaller than first estimated, and (2) the previously installed setpoints would have allowed the log power trips to perform their intended safety functions and were operable. Consequently, this condition is no longer reportable in accordance with 10CFR50.72(b)(2)(iii)(D). Edison is submitting this revised, voluntary report to document the results of the CE evaluation. Additionally, because the potentially affected trips were always operable, there was no safety significance to this occurrence.

Edison originally reduced the high logarithmic power trip setpoint by a factor of 10 while the reanalysis was being performed. Based on the reanalysis, the setpoints can be restored to their previous values. Edison has not reported any similar events in the past three years.