

*Southern California Edison Company*

P. O. BOX 800  
2244 WALNUT GROVE AVENUE  
ROSEMEAD, CALIFORNIA 91770

M. O. MEDFORD  
MANAGER OF NUCLEAR ENGINEERING  
AND LICENSING

May 3, 1988

TELEPHONE  
(818) 302-1749

U.S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Region V  
1450 Maria Lane, Suite 210  
Walnut Creek, California 94596-5368

Attention: Mr. John B. Martin, Regional Administrator

Dear Sir:

Subject: Docket No. 50-206  
IE Bulletin 88-01  
San Onofre Nuclear Generating Station  
Unit 1

In response to NRC Bulletin 88-01: "Defects In Westinghouse Circuit Breakers," a review has been conducted and it has been confirmed that Westinghouse DS-206 and DS-416 circuit breakers are utilized at San Onofre Unit 1 in Class 1E applications. The DSL-206, DSL-416 or DS-420 type breakers are not in use at San Onofre Unit 1. These circuit breakers are the subject of the IE Bulletin. Provided as an enclosure are the results of SCE's inspection of the DS-206 and DS-416 circuit breakers at San Onofre Unit 1.

Subscribed on this 3rd day of May, 1988.

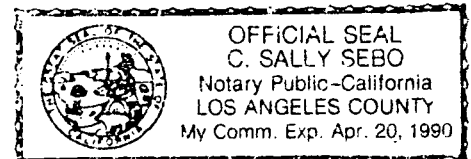
Respectfully submitted,

*M O Medford*

Subscribed and sworn to before me this  
3rd day of May, 1988.

*C. Sally Sebo*

Notary Public in and for the County of  
Los Angeles, State of California



Enclosure

cc: J. B. Martin, Regional Administrator, NRC Region V  
F. R. Huey, NRC Senior Resident Inspector, San Onofre Units 1, 2 and 3

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Response to NRC Bulletin 88-01

SCE Report on Westinghouse DS Breaker Inspections

In accordance with the reporting requirements of this bulletin, the following data includes the breakers of each type inspected, the breakers of each type requiring corrective actions due to pole shaft welds not meeting the acceptance criteria, and the breakers of each type requiring corrective actions due to mechanism alignments not meeting the acceptance criteria. As San Onofre Unit 1 was in a mid-cycle outage, the breaker data contains all short-term and some long-term inspection results. Those breakers awaiting pole shaft replacement are spare breakers and will not be utilized in the plant. A follow-up report will be forwarded within 30 days after completion of the outstanding long-term inspections.

Summary of San Onofre Unit 1  
Breaker Inspections

Breaker Model . . . . .	DS-206
Quantity . . . . .	9
Passed All Inspections . . . . .	1
Failed Short-Term Weld Inspections . . . . .	4
Failed Short and Long-Term Weld Inspections . . . . .	4
Failed Alignment Check . . . . .	0
Replaced Shaft/Completed All Inspections . . . . .	7
Awaiting Shaft Replacement/Final Inspection . . . . .	1

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Breaker Model . . . . .	DS-416
Quantity . . . . .	4
Passed All Inspections . . . . .	1
Failed Short-Term Weld Inspections . . . . .	2
Failed Short and Long-Term Weld Inspections . . . . .	1
Failed Alignment Check . . . . .	0
Replaced Shaft/Completed All Inspections . . . . .	1
Awaiting Shaft Replacement/Final Inspection . . . . .	2

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San Onofre Unit 1 Detailed  
Breaker Inspection Results

Breaker ID . . . . . S1-52-1130  
Type . . . . . DS-206  
Short-Term Weld Inspections . . . . . Pass  
Long-Term Weld Inspections . . . . . Pass  
Long-Term Alignment Check . . . . . Pass

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Breaker ID . . . . . S1-52-1129  
Type . . . . . DS-416  
Short-Term Weld Inspections . . . . . Pass  
Long-Term Weld Inspections . . . . . Pass  
Long-Term Alignment Check . . . . . Pass

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Breaker ID . . . . . S1-52-1125  
Type . . . . . DS-206  
Short-Term Weld Inspections (Welds 2,3,6) . . . . . Fail  
    Comment: Welds 2, 3 and 6 failed due to  
            weld size and lack of fusion.  
            Pole shaft replaced.  
Long-Term Weld Inspections (Welds 1,4,5,7) . . . . . Fail  
    Comment: Weld 5 failed due to size/length  
            and porosity. Weld 7 failed due  
            to lack of fusion and porosity.  
Long-Term Alignment Check w/New Shaft . . . . . Pass

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Breaker ID . . . . . S1-52-1126  
Type . . . . . DS-206  
Short-Term Weld Inspections (Welds 2,3,6) . . . . . Fail  
    Comment: Welds failed due to weld size  
            and length of weld. Pole shaft  
            replaced.  
Long-Term Weld Inspections (Welds 1,4,5,7) . . . . . Fail  
    Comment: Weld 1 failed due to lack of  
            fusion.  
Long-Term Alignment Check w/New Shaft . . . . . Pass

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Breaker ID . . . . . S1-52-1127  
 Type . . . . . DS-206  
 Short-Term Weld Inspections (Welds 2,3,6) . . . . . Fail  
 Comment: Weld 2 failed due to weld size,  
 length of weld, and lack of  
 fusion. Pole shaft replaced.  
 Long-Term Weld Inspections (Welds 1,4,5,7) . . . . . Not Performed  
 Comment: Weld inspections not performed  
 due to unsatisfactory results  
 of short-term inspections.  
 Long-Term Alignment Check w/New Shaft . . . . . Pass

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Breaker ID . . . . . S1-52-1131  
 Type . . . . . DS-206  
 Short-Term Weld Inspections (Welds 2,3,6) . . . . . Fail  
 Comment: Welds failed due to weld size  
 and length of weld. Pole shaft  
 replaced.  
 Long-Term Weld Inspections . . . . . Pass  
 Long-Term Alignment Check w/New Shaft . . . . . Pass

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Breaker ID (Spare) . . . . . S1-52-1226  
 Type . . . . . DS-206  
 Short-Term Weld Inspections (Welds 2,3,6) . . . . . Fail  
 Comment: Welds failed due to weld size  
 and length of weld. Pole shaft  
 to be replaced.  
 Long-Term Weld Inspections . . . . . Pass  
 Long-Term Alignment Check w/New Shaft . . . . . Later Report

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Breaker ID . . . . . S1-52-1227  
 Type . . . . . DS-206  
 Short-Term Weld Inspections (Welds 2,3,6) . . . . . Fail  
 Comment: Weld 2 failed due to weld size,  
 length of weld, and lack of  
 fusion. Weld 6 failed due to  
 weld size and length of weld.  
 Pole shaft replaced.  
 Long-Term Weld Inspections . . . . . Pass  
 Long-Term Alignment Check w/New Shaft . . . . . Pass

\* \* \*

Breaker ID . . . . . S1-52-1230  
Type . . . . . DS-206  
Short-Term Weld Inspections (Welds 2,3,6) . . . . . Fail  
    Comment: Welds failed due to weld size  
            and length of weld. Pole shaft  
            replaced.  
Long-Term Weld Inspections (Welds 1,4,5,7) . . . . . Fail  
    Comment: Weld 7 failed due to weld size  
            and length of weld.  
Long-Term Alignment Check w/New Shaft . . . . . Pass

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Breaker ID . . . . . S1-52-1231  
Type . . . . . DS-206  
Short-Term Weld Inspections (Welds 2,3,6) . . . . . Fail  
    Comment: Welds failed due to weld size  
            and length of weld. Pole shaft  
            replaced.  
Long-Term Weld Inspections (Welds 1,4,5,7) . . . . . Fail  
    Comment: Welds 1 & 7 failed due to weld  
            size and length of weld.  
Long-Term Alignment Check w/New Shaft . . . . . Pass

\* \* \*

Breaker ID . . . . . S1-52-1229  
Type . . . . . DS-416  
Short-Term Weld Inspections (Welds 2,3,6) . . . . . Fail  
    Comment: Weld 2 failed due to weld size  
            and length of weld. Weld 6  
            failed due to porosity. Pole  
            shaft replaced.  
Long-Term Weld Inspections (Welds 1,4,5,7) . . . . . Not Performed  
    Comment: Weld inspections not performed  
            due to unsatisfactory results  
            of short term inspections.  
Long-Term Alignment Check w/New Shaft . . . . . Pass

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Breaker ID (Spare) . . . . . SO#27Y2656B1  
Type . . . . . DS-416  
Short-Term Weld Inspections (Welds 2,3,6) . . . . . Fail  
    Comment: Welds 2, 3, 6 failed due to weld  
            size. Weld 2 had lack of fusion.  
            Pole shaft to be replaced.  
Long-Term Weld Inspections (Welds 1,4,5,7) . . . . . Fail  
    Comment: Welds 1,4,5,7 failed due to weld  
            size. Weld 7 also failed due to  
            lack of fusion.  
Long-Term Alignment Check w/New Shaft . . . . . Later Report

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Breaker ID (Spare) . . . . . SO#27Y2656B1  
Type . . . . . DS-416  
Short-Term Weld Inspections (Welds 2,3,6) . . . . . Fail  
    Comment: Welds failed due to weld size  
            and length of weld. Pole shaft  
            to be replaced.  
Long-Term Weld Inspections (Welds 1,4,5,7) . . . . . Not Performed  
    Comment: Weld inspections not performed  
            due to unsatisfactory results  
            of short-term weld inspection.  
Long-Term Alignment Check w/New Shaft . . . . . Later Report

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