

# CATEGORY 1

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 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana M 05000316  
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SUBJECT: Provides follow-up advisory of defect in double pole torque switch.List of nuclear utility customers,encl.

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U. S. Nuclear Regulatory Commission  
Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT: Follow-up advisory for 10 CFR Part 21 defect  
reported by American Electric Power

REFERENCE: Donald C. Cook Plant, Units 1 and 2  
Docket Numbers 50-315 and 50-316  
Operating Licenses DPR-58 and DPR-74

Pursuant to the requirements of Title 10 Code of Federal Regulations Part 21 herein contained is a follow-up advisory of a defect in a basic component. The initial notification of this has been previously reported by American Electric Power - Donald C. Cook Plant. This advisory is being made to all utility end users and the commission at the same time to expedite the process.

#### Background

In February 1997, D. C. Cook Plant notified Limitorque Corporation that an installed SMB-00 actuator had failed to operate. At that time D. C. Cook officials identified the double pole torque switch as the root cause of that failure.

#### Basic Component Affected

The double pole torque switch shown in Figure 1, installed in SMB, SB, and SBD actuators, has been identified as the defective basic component.

9704290072 970422  
PDR ADOCK 05000315  
S PDR



IE191/1

Part Numbers:

<u>Unit Size</u>	<u>Standard</u>	<u>Nuclear</u>
00	11500-011	11501-012, 11500-160, 11500-012
0	11500-019	11501-020, 11500-020
1	11500-027	11501-028, 11500-028
2	11500-035	11501-036, 11500-036
3	11500-043	11501-044, 11500-044
4	11500-051	11501-052, 11500-052
5	11500-059	11501-060, 11500-060

*NOTE: The above part numbers may not be applicable for Double Pole Torque Switches procured for actuators manufactured prior to 1975. In this case, Figure 2, can be used for visual identification of the torque switch.*

Figure 3 depicts the standard torque switch assembly, this is shown below the double pole torque switch. The standard torque switch is not affected, and not subject of this advisory.

Nature of the Defect

The defective assemblies are missing a spacer between the torque switches, shown in Figure 2 and shown below the double pole torque switch in Figure 1. The affected switch is the outboard assembly (i.e. the switch furthest from the lever arm). The torque switch contacts open prematurely resulting in either incorrect indication of output torque delivered or de-energization of the actuator motor prior to the valve achieving full travel. The aforementioned results are dependent upon the electrical control circuit that is utilized.

The malfunction should be detected during initial actuation setup.

It should be noted that the inboard assembly (i. e. the switch closest to the lever arm) is not affected and will function properly.

Corrective Action

Limitorque has instituted an additional inspection check of double pole torque switches to detect any assembly error and correct any defect prior to shipment.

Licensee corrective action must include reviewing all installed and in-stock torque switches to determine if any double pole torque switches exist in inventory or are installed. Once identified, the licensee must visually examine each for the presence of the subject spacer, and

Page 3  
April 22, 1997  
Part 21 Notification

replace any torque switches which are missing the spacer. Defective torque switches may be returned to Limatorque for repair and replacement. The Limatorque contact for returns is Jim Hammer, Product Reliability Manager, at Ext. 9863.

Any questions regarding the above advisory may be directed to Mr. P. McQuillan, Nuclear and Special Projects Manager at Limatorque (804) 528-4400 Ext. 9714.

Signed:



Charles L. Hylton  
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CLH/lab

cc: Bill Friel  
Part 21 File Evaluation #58

Figure 1

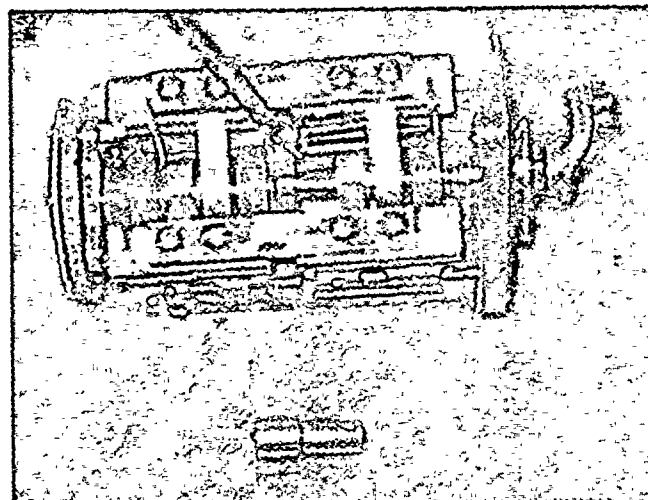


Figure 2

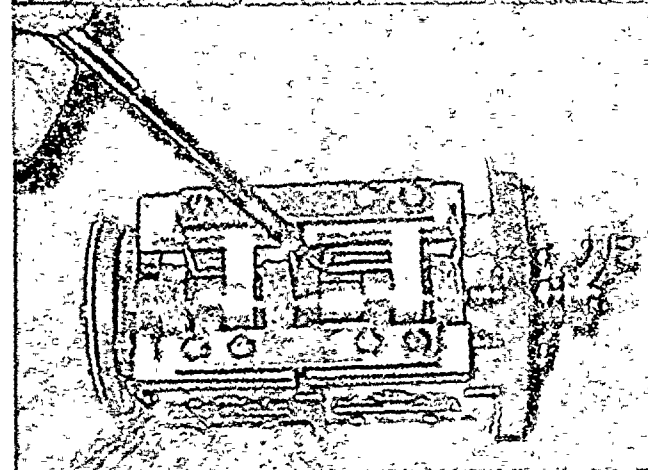
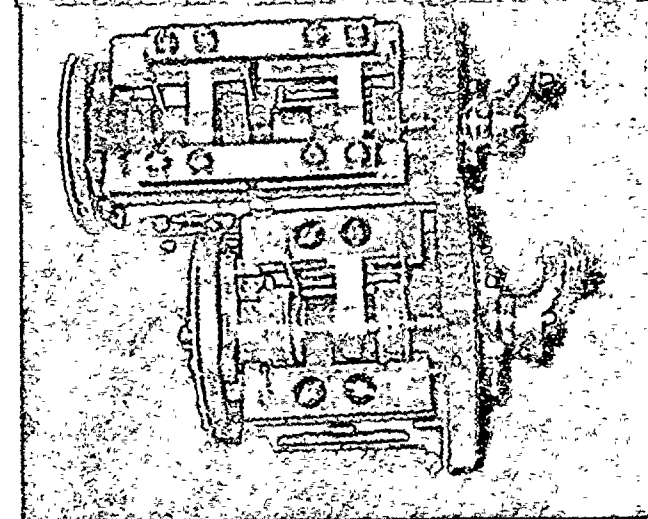


Figure 3



SUBJECT: Follow-up advisory for  
10 CFR Part 21 defect  
reported by American  
Electric Power

REFERENCE: Donald C. Cook Plant,  
Units 1 and 2 Docket  
Numbers 50-315 and  
50-316 Operating  
Licenses DPR-58 and  
DPR-74

LIMITORQUE CORPORATION  
Part 21 Evaluation #58



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8. The eighth part of the document is a list of names and addresses. The names are: Thomas Blue, Uma Grey, and Victor White. The addresses are: 1919 Main St, 2020 Elm St, and 2121 Oak St.

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**PART 21 NOTIFICATION  
MAILING LIST**

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**PART 21 NOTIFICATION  
MAILING LIST**

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