

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8004170208 DOC. DATE: 80/04/11 NOTARIZED: NO
 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co.
 AUTH. NAME: WILSON, K.R. AUTHOR AFFILIATION: Duke Power Co.
 RECIP. NAME: REGION 2, Atlanta, Office of the Director

DOCKET #
05000269

SUBJECT: LER 80-008/13T-1: on 800327, motor-operator on valve 1LP-105 determined unqualified for in-containment use. Caused by erroneous provision during transfer to site for installation as part of NSM-507.

DISTRIBUTION CODE: A002S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 3+1
 TITLE: Incident Reports

NOTES: M. CUNNINGHAM - ALL AMENDS TO FSAR & CHANGES TO TECH SPECS.
R. CAPRA - ICY.

ACTION:	RECIPIENT	COPIES		RECIPIENT	COPIES	
	ID CODE/NAME	LTR	ENCL	ID CODE/NAME	LTR	ENCL
	05 BC <u>ORB #4</u>	4	4			
INTERNAL:	<u>01 REG FILE</u>	1	1	02 NRC PDR	1	1
	09 I&E	2	2	11 MPA	3	3
	14 TA/EDO	1	1	15 NOVAK/KNIEL	1	1
	16 EEB	1	1	17 AD FOR ENGR	1	1
	18 PLANT SYS BR	1	1	19 I&C SYS BR	1	1
	20 AD PLANT SYS	1	1	22 REAC SAFT BR	1	1
	23 ENGR BR	1	1	24 KREGER	1	1
	25 PWR SYS BR	1	1	26 AD/SITE ANAL	1	1
	27 OPERA LIC BR	1	1	28 ACIDENT ANLYS	1	1
	29 AUX SYS BR	1	1	AD/DRP-DOR	1	1
	AEOD	10	10	BERLINGER, C.	3	3
	DOUG MAY-TERA	1	1	HANAUER, S.	1	1
	JORDAN, E./IE	1	1			
EXTERNAL:	03 LPDR	1	1	04 NSIC	1	1
	29 ACRS	16	16			

T

APR 21 1980

TOTAL NUMBER OF COPIES REQUIRED: LTR 62 ENCL 62

DUKE POWER COMPANY
OCONEE UNIT 1

Report Number: RO-269/80-08

Report Date: April 10, 1980

Occurrence Date: March 27, 1980

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: Valve Operator Determined to be Unqualified

Conditions Prior to Occurrence: 100% Full Power

Description of Occurrence:

During the review of Oconee Unit 1 required by IE Bulletin 79-01B it was determined that valve 1LP-105 had an operator not intended for in-containment use. During review of the same valve for IE Bulletin 79-01 and 79-01A, as well as the first phase of the 79-01B review it was assumed that the Rotork operator was of the series qualified for in containment use (NA1). A more thorough review being carried for the second phase of 79-01B by personnel more familiar with actual qualification of Rotork valves identified the operator as a Model 16 NA2 serial number N-2116 EMO-SP. This was confirmed on March 27, 1980 and was reported verbally and via a telecopied LER on March 28, 1980 to Ray Hardwick of your office.

Apparent Cause of Occurrence:

The valve/operator was added to Oconee 1 in a station modification in April of 1976. The operator was erroneously chosen for the particular application by our Design Engineering Department. While it could be argued that environmental qualification was not a major concern within the industry or the Staff at this time, it was still an unacceptable practice to use such an operator in a safety-related application.

Analysis of Occurrence:

The valve in question is a normally closed branch line off the Decay Heat Removal line. It was installed as one of two flowpaths added to the decay heat line to assure adequate flow from the RCS post-LOCA to prevent boron precipitation. This path is one of three methods of assuring adequate flow. Primarily, Babcock and Wilcox and Duke both continue to support the analysis submitted in BAW-10091 which documents analysis verifying adequate flow through the unmodified systems. Secondly, an alternate flow path, through valves 1LP-103, -104, was also added in 1976 thereby assuring adequate flow. These two alternate methods coupled with the extremely low probability of an accident which would potentially involve boron precipitation assures that the likelihood of needing the line is negligible. Since the valve is normally closed it presents no system integrity concerns.

It is therefore considered that continued operation is well justified based on low probability of event requiring boron dilution capability, coupled with "passive" natural effects preventing boron precipitation and the availability of a redundant line.

Corrective Action:

The valve operator will be replaced at the next available outage. The replacement operator is currently on site.

