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FACIL:50-269 Oconee Nuclear Station, Unit 1, Duke Power Co. 05000269
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RECIP.NAME RECIPIENT AFFILIATION
Region 2, Atlanta, Office of the Director

SUBJECT: LER 80-011/01T-0:on 800429,comparing startup procedure heatup curve w/Tech Specs,curve was incorrect on nonconservative side,Caused by personnel error misplacing Unit 1 curve w/Unit 2 procedure,Procedure revised.

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TITLE: Incident Reports

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DUKE POWER COMPANY
OCONEE UNIT 1

Report Number: RO-269/80-11

Report Date: May 13, 1980

Occurrence Date: April 29, 1980

Facility: Oconee 1, Seneca, South Carolina

Identification of Occurrence: Procedural Heatup Curves Non-Conservative with Respect to Technical Specifications

Conditions Prior to Occurrence: 72% Full Power

Description of Occurrence:

On April 29, 1980 the heatup curve in the Oconee 1 controlling procedure for unit startup was discovered to be less conservative than the Oconee Nuclear Station Technical Specification heatup curve for Oconee 1, Figure 3.1.2-1A, when the two curves were compared. The heatup and cooldown curves in use in the startup and shutdown procedures for all three units were then checked, and it was determined that the heatup curve in the Oconee 2 startup procedure was incorrect, but was more conservative than the corresponding Technical Specification curve. The Oconee 3 heatup curve and the cooldown curves for all three units were correct. An investigation of the eight Oconee 1 heatups which have been made since March 19, 1979, when the Technical Specification heatup curve was last revised, revealed that the heatup limitations were exceeded on two occasions. On August 4, 1979, the Technical Specification curve was exceeded by 5°F in the worst case, and on July 18, 1979, it was exceeded by 25°F in the worst case. The Oconee 1 startup procedure heatup curve was redrawn and approved on April 29, 1980, within three hours of discovery of the error.

Apparent Cause of Occurrence:

On April 18, 1980, a revision to the Oconee 1 startup procedure incorporating the revised Technical Specification heatup curve was approved. On May 23, 1979 the startup procedures for both Oconee 1 and Oconee 2 were rewritten. The Oconee 2 heatup curve was mistakenly replaced with the new Oconee 1 curve, and the previous Oconee 1 curve was reincorporated into the Oconee 1 procedure.

Analysis of Occurrence:

The Technical Specification curve which was in effect prior to March 19, 1980 was valid for up to 4.0 effective full power years (EFPY). Due to the procedural error which resulted in retaining this curve after May 23, 1979, the revised Figure 3.1.2-1A was exceeded twice at approximately 3.8 EFPY. Thus, the procedural curve based on the outdated Technical Specification curve still provided acceptable limiting conditions for operation, although it was not as conservative as the approved curve. This incident constituted operation of a

unit when a parameter subject to a limiting condition for operation was less conservative than the least conservative aspect of the limiting condition for operation established in Technical Specification 3.1.2, and must therefore be reported pursuant to Technical Specification 6.6.2.1.a(2). However, this incident is not considered to be significant with respect to safe operation, and the health and safety of the public were not affected.

Corrective Action:

The Oconee 1 startup procedure was revised to incorporate the correct heatup curve. The heatup and cooldown curves for the other two units were also checked for accuracy. A review of all Oconee 1 heatups which were made using the incorrect procedure was completed to assure that no unacceptable operating conditions had occurred. In addition, the responsibility for redrawing the heatup and cooldown curves for the procedures has been more clearly delineated to provide further assurance that the curves are prepared correctly.

8005200555

NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

EXHIBIT A

CONTROL BLOCK: [| | | | | |] (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1	LICENSEE CODE: S C N E E 1 (2)	LICENSE NUMBER: 0 0 - 0 0 0 0 0 - 0 0 (3)	LICENSE TYPE: 4 1 1 1 1 (4)	CAT: (5)

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0 1	REPORT SOURCE: L (6)	DOCKET NUMBER: 0 5 0 0 0 2 6 9 (7)	EVENT DATE: 0 4 2 9 8 0 (8)	REPORT DATE: 0 5 1 3 8 0 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 As a result of the comparison of the Oconee 1 startup procedure heatup curve
0 3 to Technical Specification Figure 3.1.2-1A on April 29, 1980, the procedure
0 4 curve was discovered to be incorrect in the non-conservative direction. A
0 5 review of the eight Oconee 1 heatups since the procedure was last revised
0 6 revealed two instances when the current curve was exceeded at approximately
0 7 3.8 EFPY. However, the procedure curve was valid for up to 4.0 EFPY. Thus,
0 8 this incident was not considered to be significant with respect to safe operation, and the health and safety of the public were not affected.

0 9	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
	Z Z (11)	A (12)	A (13)	Z Z Z Z Z Z (14)	Z (15)	Z (16)

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	8 0	—	0 1 1	/	0 1	T	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
G (18)	G (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	N (24)	Z (25)	Z Z Z Z (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The Oconee 1 and Oconee 2 startup procedures were both revised on May 23, 1979,
1 1 and the newly-revised Oconee 1 heatup curve was mistakenly placed in the
1 2 Oconee 2 procedure. The outdated heatup curve was reincorporated into the
1 3 Oconee 1 procedure. The Oconee 1 procedure has been corrected, and responsi-
1 4 bility for redrawing the heatup and cooldown curves has been more clearly delineated.

1 5	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
	E (28)	0 7 2 (29)	NA	A (31)	Procedure Review

1 6	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
	Z (33)	Z (34)	NA	NA

PERSONNEL EXPOSURES

1 7	NUMBER	TYPE	DESCRIPTION (39)
	0 0 0 (37)	Z (38)	NA

PERSONNEL INJURIES

1 8	NUMBER	DESCRIPTION (41)
	0 0 0 (40)	NA

LOSS OF OR DAMAGE TO FACILITY (43)

1 9	TYPE	DESCRIPTION
	Z (42)	NA

PUBLICITY

2 0	ISSUED	DESCRIPTION (45)	NRC USE ONLY
	N (44)	NA	

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