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This revision includes other components that have not been calibrated and were not covered by the previous revision of this LER.

SUPPLEMENTAL REPORT EXPECTED (14)

On January 29, 1987, at 1300 EST, with unit 1 in mode 5 (O percent power, O psig, and 109 degrees F), and unit 2 in mode 5 (O percent power, 250 psig, and 110 degrees F), numerous time delay relays, cycle timers, level switches, and load controllers were identified as not being routinely calibrated. On February 20, 1987, with both units in mode 5, several undervoltage relays, overvoltage relays, and meters were identified as not being routinely calibrated. These discoveries were the result of a Division of Nuclear Quality Assurance audit.

The root cause of not calibrating the components was that before the Division of Nuclear Quality Assurance audit the components have not been identified on any procedure to require calibration due to lack of clearly defined departmental responsibilities.

Components necessary for unit 2 operation will be calibrated before startup of unit 2. Similiarly, components necessary for unit 1 operation will be calibrated before unit 1 startup. Additionally, procedures will be prepared to routinely calibrate all of the components on a scheduled basis.

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YES (If yes, complete EXPECTED SUBMISSION DATE)

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

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YEAR

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

This revision includes other components that have not been calibrated and were not covered by the previous revision of this LER.

DESCRIPTION OF EVENT

On January 29, 1987, at 1300 EST, with unit 1 in mode 5 (O percent power, O psig, and 109 degrees F) and unit 2 in mode 5 (0 percent power, 250 psig, and 110 degrees F), numerous time delay relays, cycle timers, level switches and load controllers were identified as being routinely calibrated. On February 20, 1987, with both units in mode 5, several undervoltage relays, overvoltage relays, and meters were identified as not being routinely calibrated. These discoveries were the result of a Division of Nuclear Quality Assurance audit. The audit was documented on Deviation Report No. QSQ-A-86-0007-001 dated July 11, 1986. The audit determined that certain Nuclear Quality Assurance Manual requirements and Sequoyah Nuclear Plant standard practices have not always been fully implemented and all electrical devices may not be adequately covered by the site's quality assurance program. Sequoyah Nuclear Plant's response was that the instruments would be identified and included in a comprehensive procedure to control calibration of instruments. The components that were identified as not being included on any procedure are associated with the following systems:

	Time Delay Relays	EIIS Code
1.	Auxiliary feedwater pump turbine steam supply transfer	SJ
2.	Essential raw cooling water (ERCW) header isolation valves	KI
3.	Motor driven auxiliary feedwater pump steam generator level	
	and bypass control valves	SJ
4.	Fire pump start logic	KP
5.	Diesel generator room exhaust fans	VJ
6.	Diesel generator battery hood exhaust fans	vJ
7.	Diesel generator 480 volt board room exhaust fans	VJ
8.	Containment air return fans	VC
9.	Auxiliary control air compressors	LD
10.	Centrifugal charging pump auxiliary oil pumps	CB
11.	Boric acid flow	CB
12.	Primary water flow	CB
13.	Diesel generator engine heat exchanger supply valves	LB
14.	ERCW supply header 1B to header 2A isolation valves	KI
15.	Component cooling system booster pumps	CC
16.	Component cooling water flow differential	CC
17.	Containment spray recirculation valves	BE
18.	Manipulator crane gripper engaged	DF
19.	Manipulator crane slow zone	DF
20.	Diesel generator solenoid valves for air start motors	LC
21.	Diesel generator normal stop logic	EK
22.	Diesel generator hydraulic governor control	EK
23.	Diesel generator speed switch relay	EK
24.	Upper head injection positive displacement pump recirculation valv	re BQ
25.	480 Volt shutdown board control voltage transfer switches	ED
26.		EB EB
27.	6.9kv shutdown board degraded voltage	EB
28.	Centrifugal charging pump load sequencing logic	ED

NRC Form 366A (9-83)

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88

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29.	6.9kv shutdown board load see	quencing logic		EB
30.	Containment spray pump load :	sequencing logic		EB
31.	Auxiliary feedwater pump load	d sequencing logic		EB
32.	ERCW pumps load sequencing lo	ogic		EB
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42.				VI
43.				VF
44.		em Ians		BH
45.	Shutdown board room chillers			VF
		Level Switches	EII	S Code
1.	Diesel generator day tanks			DC
2.	Spent fuel pit water level			DA
3.	Auxiliary air compressor oil	level		LD
4.	Shutdown board room compressor			VF
		Cycle Timers	EII	S Code
1.	Auxiliary control air compress	sor dryer		LD
		Load Controllers	EII	S Code
1.	Electric board room chiller mo	otor		VF
2.	Main control room chiller moto	or		VI
3.	Shutdown board room temperatur	re .		VF
		Undervoltage Relays	EII	S Code
1.	Vital battery boards			EJ
2.	Vital battery chargers			EJ
3.	Vital inverters			EF
4.	Vital instrument power boards			EF
		Overvoltage Relays	EII	S Code
1.	Vital battery boards			EJ

NRC Form 366A

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

Meters	EIIS	Code

- 1. Vital battery chargers
- 2. Vital battery boards
- 3. ERCW motor control centers

EJ EJ

ED

Many of these instruments are used for compliance to Technical Specification parameters. However, the safety related systems that contain any of the above components are periodically functional tested. Any inoperable components most probably would have been discovered during this testing. Therefore, no limiting conditions for operation were entered.

Some components and systems are common to units 1 and 2.

CAUSE OF EVENT

The root cause of not periodically calibrating the aforementioned components was that, until the Division of Nuclear Quality Assurance audit, the components were not identified by any procedure to require routine calibration due to lack of clearly defined departmental responsibilities.

ANALYSIS OF EVENT

This event is reportable under 10 CFR 50.73 paragraph a.2.i.B as an operation or condition prohibited by plant technical specifications.

Even though the above listed timers, level switches, load controllers, undervoltage relays, and overvoltage relays have not been calibrated, the systems are routinely functional tested. The functional tests provide a high level of confidence that the systems do operate properly. Therefore, there has been no threat to the safety of plant personnel or the general public.

CORRECTIVE ACTION

Work requests and instructions are being prepared to calibrate all of the aforementioned components. Those necessary for unit 2 operation will be completed before startup of unit 2. Similarly, unit 1 components will be calibrated before unit 1 startup. Procedures will be prepared to routinely calibrate all of the components on a scheduled basis.

Additional research is being performed as a result of the Division of Nuclear Quality Assurance audit in other areas. If other deficiencies are identified, the LER will be revised.

ADDITIONAL INFORMATION

There have been no previous occurrences.

0381Q

TENNESSEE VALLEY AUTHORITY Sequoyah Nuclear Plant Post Office Box 2000 Soddy-Daisy, Tennessee 37379

March 20, 1987

U. S. Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

Gentlemen:

TENNESSEE VALLET AUTHORITY - SEQUOYAH NUCLEAR PLANT UNIT 1 - DOCKET NO. 50-327 - FACILITY OPERATING LICENSE DPR-77 - REPORTABLE OCCURRENCE REPORT SQRO-50-327/87010 REVISION 1

The enclosed revised licensee event report identifies additional components that have not been routinely calibrated because they were not identified on any procedure. This event was orginally reported in accordance with 10 CFR 50.73, paragraph a.2.i.B, on January 29, 1987.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Nobles

Acting Plant Manager

Enclosure cc (Enclosure):

J. Nelson Grace, Regional Administrator U. S. Nuclear Regulatory Commission Suite 2900 101 Marietta Street, NW Atlanta, Georgia 30323

Records Center
Institute of Nuclear Power Operations
Suite 1500
1100 Circle 75 Parkway
Atlanta, Georgia 30339

NRC Inspector, Sequoyah Nuclear Plant