NRC FORM 366 (12-81)	LICENSEE EVENT REPORT	2130-0011 EXPIRES 4-30-62
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While in Mode 1, during	removal of the tachometer for calibra	ation, the turbine-
driven auxiliary feedwat	ter pump (ATWP) started and could not	be stopped from eithe
the local panel or the	control room. The pump was declared in	noperable after it was
3 5 secured by closing the	turbine stop valve. This constitutes a	a degradation of the
auxiliary feedwater syst	tem (T.S.3.7.1.2) which is reportable	pursuant to T.S.6.9.1
11(b). The pump would ha	ave been available if needed. Addition	nally, the redundant
	operable. Health and safety of the pu	13
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		COMPONENT 26
The technician performing	ng the maintenance contacted an incorn	rectly installed wash
with his screwdriver as	he disconnected an adjacent wire, sho	orting the auto-start
[1]2   circuitry and blowing a	fuse. The fuse was replaced, control	re-established, and
the pump declared operat	ble. Washers were permanently removed	from the tachometer
1 4 terminal strip to preven	nt recurrence.	
1 5 B 28 0 7 5 29	NA A A Personnel Observ	vation
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DUKE POWER COMPANY USNES READING P.O. BOX 33189 CHARLOTTE, N.C. 28242

HAL B. TUCKER VICE PRESIDENT NUCLEAR PRODUCTION

October 12, 1983

TELEPHONE 83 00 T 21 AIO : 29(704) 373-4531

Mr. James P. O'Reilly, Regional Administrator U. S. Nuclear Regulatory Commission Region II 101 Marietta Street NW, Suite 2900 Atlanta, Georgia 30303

Subject: McGuire Nuclear Station Unit 2

Docket No. 50-370 LER/RO-370/83-46

Dear Mr. O'Reilly:

Please find attached Reportable Occurrence Report RO-370/83-46. This report concerns T.S. 3.7.1.2, "At Least Three Independent Steam Generator Auxiliary Feedwater Pumps and Associated Flow Paths Shall Be Operable With:... b. One Steam Turbine-Driven Auxiliary Feedwater Pump Capable of Being Powered From An Operable Steam Supply System". This incident was considered to be of no significance with respect to the health and safety of the public.

Very truly yours,

4.8. Tuchu /1/6 Hal B. Tucker

PBN: jfw Attachment

cc: Document Control Desk U. S. Nuclear Regulatory Commission Washington, D. C. 20555

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

Mr. W. T. Orders NRC Resident Inspector McGuire Nuclear Station

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## DUKE POWER COMPANY McGUIRE NUCLEAR STATION REPORTABLE OCCURRENCE REPORT NO. 370/83-46

REPORT DATE: October 12, 1983

FACILITY: McGuire Unit 2, Cornelius, NC

IDENTIFICATION: Inadvertent Start of the Turbine-Driven Auxiliary Feedwater Pump

DESCRIPTION: On September 12, 1983, the Unit 2 turbine-driven auxiliary feedwater pump (AFWP) started while a technician was removing the tachometer for calibration. The pump could not be stopped from either the local panel or the control room and was secured by closing the turbine stop valve. The turbine-driven AFWP, required to be operable per Technical Specification 3.7.1.2, was declared inoperable until control was re-established. Unit 2 was in Mode 1 at 75% during this time.

This event is attributed to an Installation Deficiency with a contributing Personnel Error. The technician contacted an incorrectly installed washer with his screwdriver as he disconnected an adjacent wire. It should be noted that the position of the tachometer made recognition of the incorrect washer installation difficult.

EVALUATION: The tachometer for the turbine-driven AFWP is a non-safety related component which provides a signal to gauges in the local control panel and the control room. It has no control function and is not necessary for operation of the pump. While disconnecting wires for removal and calibration, the technician shorted the auto-start circuitry, blowing a fuse.

When the fuse blew, control power to the steam isolation valves was lost and the valves failed open, admitting steam to the turbine-driven AFWP. The pump began to inject water from the auxiliary feedwater condensate storage tank to the steam generators.

The technician called the control room to inform the control operator of the pump start. While the control operator observed plant response, an Operations supervisor was dispatched to close the turbine stop valve. The duration of auxiliary feedwater injection was approximately 10 minutes.

CORRECTIVE ACTION: The auto-start circuit fuse was replaced and control re-established. The steam isolation valves were closed, the turbine stop valve opened, and the turbine-driven AFWP declared operable.

The square washers were permanently removed from the tachometer terminal strip in order to prevent recurrence of this event.

SAFETY ANALYSIS: While the turbine stop valve was closed and the turbine-driven AFWP was technically inoperable, the pump would have been available if needed. Control power was available for the regulator valves and manual opening of the stop valve would have started the pump. Additionally, the redundant motor-driven pumps were operable.

During the approximately 10 minutes that the turbine-driven AFWP was injecting water to the steam generators, all major plant parameters remained stable; steam generator level initially increased and then returned to normal, main feedwater flow decreased to offset the auxiliary feedwater flow, and electric power was unchanged.

The health and safety of the public were unaffected by this event.