

January 21, 1991

Director of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Mail Station P1-137 Washington, D.C. 20555

Dear Sir:

Licensee Event Report \$90-014-00, Docket \$050-374 is being submitted to your office in accordance with 10CFR50.73(a)(2)(x).

> -WRO HIM for Station Manager LaSalle County Station

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xc: Nuclear Licensing Administrator NRC Resident Inspector NRC Region III Administrator INPO - Records Center

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At approximately 0745 hours on December 22, 1990 with Unit 2 in Operational Condition 1 (Run) at 80% power. Security personnel notified the Control Room that a fire watch on Elevation 815 of the Auxiliary Building noticed a smell of something burning on that elevation. The Center Desk dispatched an Operator to investigate. At the same time a Shift Foreman was in the Auxiliary Building and noticed the smell. The Shift Foreman proceeded to the Turbine Driven Reactor Feedwater Pump (TDRFP) rooms to investigate. Upo: arriving at the 2A TDRFP, he noticed smoke coming from the front area of the TDRFP. He then notified the Control Room. A fire watch was established and additional fire suppression equipment was brought to the area. Reactor power was reduced to 900 mwe at 0845 hours in preparation for taking the 2A TDRFP off-line. At 0915 hours the motor driven reactor feedwater pump (MDRFP) was on-line and the 2A TDRFP was shutdown. At 0925 hours there was a report of flames in the 2A TDRFP room. The fire Brigade responded at 0927 hours. At this time, the Control Room Operators closed the high pressure and low pressure oil supplies to the turbine in order to prevent the fire from spreading. At 0945 hours the fire was estinguished.

The Fire Brigade was not able to estinguish the fire within ten minutes of arriving on the scene and a Generating Station Emergency Plan (GSEP) unusual event was declared at 0940 hours. During this event hydraulic control oil was isolated to the 2A TDRFP. At 1025 hours the GSEP event was terminated. Work Request L04372 was generated to repair the oil leak.

This event is being reported pursuant to 10CFR50.73(a)(2)(x) due to a fire of greater than ten minutes which could have hampered site personnel in the performance of their duties.

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PLANT AND SYSTEM IDENTIFICATION

General Electric - Boiling Water Reactor

Energy Industry Identification System (EIIS) codes are identified in the text as [XX].

A. CONDITION PRIOR TO EVENT

Unit(s): 2 Event Date: 12/22/90 Event Time: 0925 Hours

Peactor Mode(s): 1 Mode(s) Name: Run Power Level(s): 80%

B. DESCRIPTION OF EVENT

At approximately 0745 hours on December 22, 1990 with Unit 2 in Operational Condition 1 (Run) at 80% power, Security personnel notified the Control Room that a fire watch on Elevation 815 of the "uxiliary Building noticed a smell of something burning on that elevation. The Center Desk dispatched an Operator to investigate. At the same time a Shift Foreman was in the Auxiliary Building and noticed the smell. The Shift Foreman proceeded to the Turbine Driven Reactor Feedwater Pump (TDRFP) rooms to investigate. Upon arriving at the 2A TDRFP, he noticed smoke coming from the front area of the TDRFP. He then notified the Control Room. A fire watch was established and additional fire suppression equipment was brought to the area. Reactor power was reduced to 900 mwe at 0845 hours in preparation for taking the 2A TDRFP off—line. At 0915 hours the motor driven reactor feedwater pump (MDRFP) was on—line and the 2A TDRFP was shutdown. At 0925 hours there was a report of flames in the 2A TDRFP room. The Fire Brigade responded at 0927 hours. At this time, the Control Room Operators closed the high pressure and low pressure oil supplies to the turbine in order to prevent the fire from spreading. At 0945 hours the fire was estinguished.

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This event is being reported pursuant to 10CFR50.73(a)(2)(x) due to a fire of greater than ten minutes which could have hampered site personnel in the performance of their duties.

C. APPARENT CAUSE OF EVENT

Hydraulic oil was leaking around the vibration probe flange onto the insulation in the vicinity of the probe and saturated it.

The oil used is Steam Turbine Oil manufactured by Mobil under the name of DTE 797. This oil has a flash point temperature of 410 degrees Fahrenheit per ASTM D-92. The feedwater temperature going through the pump is 416 degrees Fahrenheit. Insulation is used around the pump to prevent heat loss.

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D. SAFETY ANALYSIS OF E'ENT

The 2A turbine driven reactor feed pump room is identified as Fire Zone 5A2. This zone does not contain any safety-related equipment. All walls and slabs at both elevations are a minimum of 36 inches thick structural reinforced concrete. The North, South and East walls are three hour fire rated walls. Automatic Sprinklers are provided for the room with alarm and annunication in the Control Room. The sprinkler system is designed to produce a density of 0.3 gpm/ft2 over 3000 ft2 area. Manual backup protection consists of two firehose stations each with 100 feet of 1 1/2 inch U.L. listed hose and portable fire extinguishers.

The average fire loading for this zone, including a transient fire loading, equivalent to 55 gallons of lube oil, is 24,800 BTU/ft2. This is equivalent to a fire severity of less than 1/2 hour.

A fire in this zone will have no impact on safe shutdown of the unit since the zone does not contain any safety related equipment. A GSEP unusual event was declared at 0940 hours due to the fire lasting greater than ten minutes in the protected area after the Fire Brigade had arrived. The GSEP was terminated at 1025 hours by the Shift Engineer after the oil soaked insulation was removed and conditions had stabilized.

E. CORRECTIVE ACTIONS

The initial corrective action was notification of the Control Room with response by the Fire Brigade. The 2A turbine driven reactor feed pump was taken off line in order to repair the 611 leak on the outboard turbine bearing vibration probe.

The vibration probe flange was machined and a portion of the shaft was ground. This allowed proper clearances between the bearing cover and flange as required to obtain proper mating surfaces, preventing oil leaks. The probe was reinstalled and the reconnected electrical connection made. No new oil leaks developed upon testing the pump.

F. PREVIOUS EVENTS

None

G. COMPONENT FAILURE DATA

There were no component failures in this event.