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SUBJECT: Special rept: on 910903, svc water leak inside containment
 sump A pump identified. Abnormal Procedure AP-SW.1, "Svc
 Water Leak," entered. Work order package prepared to identify
 & repair svc water leak.

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September 17, 1991

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

Subject: Service Water Leak Inside Containment
R.E. Ginna Nuclear Power Plant
Docket No. 50-244

In accordance with the requirements of IE Bulletin No. 80-24, (Prevention of Damage Due to Water Leakage Inside Containment), the attached 14 Day Report is hereby submitted.

Very truly yours,

Robert C. Mecredy
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SERVICE WATER LEAK INSIDE CONTAINMENT

I. PRE-EVENT PLANT CONDITIONS

The plant was at approximately 97% steady state reactor power. The Results and Test (R&T) Group had completed Periodic Test procedure, PT-2.7 (Service Water System) at approximately 1451 EDST, September 3, 1991. Containment (CNMT) Sump "A" Pump actuation was received at approximately 1626 EDST, September 3, 1991 and the actuation interval between the last two pump actuations was calculated to be approximately 199 hours. The CNMT Sump "A" is located at the bottom of the reactor vessel cavity and is the lowest elevation of the CNMT vessel.

II. DESCRIPTION OF EVENT

On September 3, 1991 at approximately 2115 EDST, with the reactor at approximately 97% full power, the Control Room operators observed that the CNMT Sump "A" level had increased to about the halfway point to another sump pump actuation. This indicated a significant decrease in the time between CNMT Sump "A" pump actuations (estimated leakage of 10 gals/hr), leading the Control Room operators to suspect some type of increased leakage inside of CNMT.

An investigation to determine the cause of leakage inside CNMT was immediately initiated. Indications of a possible Reactor Coolant System leak were not present; no significant unexplainable increases or changes were observed on radiation monitors R-11 and R-12 (CNMT Air Particulate Monitor and CNMT Radioactive Gas Monitor, respectively), the CNMT Dewpoint, the Reactor Coolant System Leakage, or the CNMT Recirc Fan Cooler Dumps. Based upon these indications, the Control Room operators suspected a service water leak and entered Abnormal Procedure, AP-SW.1 (Service Water Leak). As part of AP-SW.1, the CNMT Recirc Fan Coolers are isolated, one at a time, to determine if they are the service water leak path to CNMT. When the "D" CNMT Recirc Fan Service Water was isolated, the leakage to CNMT Sump "A" was significantly reduced. This confirmed a service water leak from the "D" CNMT Recirc Fan Cooler or Motor Cooler. The "D" CNMT Recirc Fan Cooler

and Motor Cooler were declared inoperable, isolated and held. A Ginna Station Work Request or Trouble Report (WR/TR) was initiated (i.e., WR/TR #9101554) to repair the service water leak associated with the "D" CNMT Recirc Fan Motor Cooler.

The Control Room operators notified higher supervision, the Nuclear Regulatory Commission (NRC) and the NRC Resident Inspector of the event.

III. CORRECTIVE ACTION

A. ACTION TAKEN TO RETURN AFFECTED SYSTEMS TO PRE-EVENT NORMAL STATUS:

Work Order Package #9101554 was prepared to identify and repair the service water leak associated with the "D" CNMT Recirc Fan Motor Cooler, utilizing Emergency Maintenance procedure, EM-745 (Repair of Containment Recirculation Fan Motor Cooler Coil). Visual inspection of the "D" CNMT Recirc Fan Motor Cooler revealed a 1/4" rupture in the first row, ninth tube return "U" bend (a 5/8" diameter tube). This "U" bend had been previously repaired during the 1991 Refueling Outage. The rupture was adjacent to the previous patch. The previous patch was removed and a new patch silver soldered into place covering both openings on 9/5/91. The patch leaked upon pressurization and a replacement patch was applied on 9/6/91. During the subsequent repressurization, a pin hole leak (i.e., less than 1/8") was identified in the second row, ninth tube return "U" bend. This leak was also repaired by a silver soldered patch on 9/7/91. The subsequent repressurization revealed a leak at the brazed connection between the discharge header and discharge pipe. This connection is on top of the cooling coil. This leak was the result of stressing the connection during coupling disassembly while performing the first and second solder repairs. This cracked connection was repaired by brazing on 9/8/91. The cooler was subsequently repressurized (no indication of leakage was apparent) and returned to service.

B. ACTION TAKEN OR PLANNED TO PREVENT RECURRENCE:

As the underlying cause of the event was determined to be "U" bend tube thinning aggravated by pressure spikes during the performance of PT-2.7, the following actions to prevent recurrence have been taken or are planned:

- o The order for a replacement CNMT Recirc Fan Motor Cooler has been expedited, and the cooler will be used as a spare, if required.
- o Replacement of all CNMT Recirc Fan Motor Coolers is planned for the 1992 Maintenance and Refueling Outage.
- o The R&T Group will perform a review of PT-2.7 to assess if enhancement of the existing text would preclude future pressure spikes from occurring.
- o A review of appropriate Operating and Testing procedures will be performed to assess if enhancement of the existing text would preclude future pressure spikes from occurring.