

**From:** Edwin Gray  
**To:** Lawrence Doerflein  
**Date:** Tue, Feb 8, 2000 10:30 AM  
**Subject:** IP2 Steam Generator Primary to Secondary side leak

Indian Point Unit 2 has had a low level of primary to secondary side steam generator leakage in 3 of the four steam generators since the startup from an unplanned outage in October 1999. The total leakage has been slightly above one gallon per day ( 1 gpd). This weekend, 2/6/00, the N16 monitor for SG 24 alarmed , correlating with a leak rate of about 1.5 gpd from that SG. The indication of this leak has since reduced.

The licensee has reviewed the EPRI guidance resulting from the North Anna tube rupture event and has the following leak rate action levels in place:

- 10 gpd Begin Increased and continuous monitoring, alarm in control room
- 25 gpd Action level for increased concern, N16 readings every 15 minutes
- 60 gpd Initiate plant shutdown

It is not known if the leakage source is from degrading tubes or leaking tube plugs or a combination of both. Based on EPRI guidance and previous SG leak progression rate history, the current leak conditions are not a safety concern. When the leak rate begins to increase, this could change. The resident inspectors are monitoring the licensee actions on and for the leak. If the leak rate reaches 5 gpd, or there is a significant change in leak rate, NRC should initiate discussions with IP2 to confirm the licensee plans should the leak rate exceed 10 gpd.

**CC:** Brian Holian, James Wiggins, Kenneth Kolaczyk, ...

N/B