

### **N385. A Plugged SG Tube Burst At Haddam Neck**

Due to the steam pressure of water that leaked through the plugs, Connecticut Yankee Atomic Power Company discovered this rupture while inspecting the 590-MWe pressurized water reactor's steam generators during its recent 18th refueling outage. The tubes ruptured on the cold side, near one of the plugs, so there was no significant leakage. Connecticut Yankee found the most leaking tubes, as well as the ruptured tube, in steam generator No.4. The utility planned to remove the plugs, perform eddy current testing on the tubes, and weld plugs back in place. It found only 25 tubes that required plugging in this outage, a remarkable improvement over the 160 that required plugging in 1989. It saved another 54 tubes from plugging by rerolling the tubes in the tubesheet area. Personnel also removed 264 pounds of sludge from the secondary side of the four steam generators, compared with 942 pounds of sludge removed in 1989.

*Taken from, "A Plugged SG Tube Burst At Haddam Neck," pg.55, Nuclear News, April 1995/Vol.38/No.5.*