

DISCHARGE MONITORING REPORT
PERMIT NUMBER NY0001015
NINE MILE POINT NUCLEAR STATION
NOVEMBER 1990

COMMENTS

1. There were no discharges from the Unit 2 Waste Neutralizing Tank to the Sewage Treatment Facility during November 1990.
2. No preprinted DMR form was received for outfall 022 (Security Building Air Conditioning). There were no discharges from this outfall directly to Lake Ontario (receiving water body) during November 1990. Any discharge during November 1990 was directed to the Site Sewage Treatment Facility.
3. The strip chart recorder channel which is used to measure outfall 040 (Cooling Tower Blowdown) flow was inoperable from November 6, at 1644 hours until November 9, at 2300 hours due to a required divisional electrical outage. Flow data for this period was obtained from the station's process computer on an hourly basis. The station was shutdown (maintenance outage) during this period and service water pump flow was stable.
4. During the month of November 1990, the Circulating Water System (Cooling Tower System) was dewatered for system maintenance while Unit 2 was shutdown. During this period where the Circulating Water System was dewatered, twice per week pH grab samples and free available chlorine recording were not obtained from outfall 040 because the system was dewatered.
5. The following summary comment concerns the discharge of water from the Unit 2 Circulating Water System (outfall 040). The discharge was initiated on November 2, 1989 under an Emergency Authorization issued by the NYSDEC for the discharge of copper contaminated water. Details for the discharge during November and December 1989 are provided in the comment sections of November and December 1989 Discharge Monitoring Reports.

During the months of January through November 1990, the discharge of water continued under the terms and conditions of an amended Emergency Authorization dated December 22, 1989. The Amendment basically allows for the discharge of the Unit 2 Circulating Water System through the normal station blowdown routes and/or through the Unit 1 facility Circulating Water System. The Amendment also limits the concentration of total copper in the mixing area in Lake Ontario to 17 ppb, and requires a monitoring frequency of twice per week.

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(Continued)

Any copper discharged from the Circulating Water System during November 1990, is believed to have originated from copper precipitated onto the carbon steel structures within the Circulating Water System. The source of the precipitated copper originated from the acid leak into the Circulating Water System in October 1989.

Copper concentrations in the Circulating Water System during November 1990 ranged from 5.8 to 11.8 ppb (9.2 ppb average) total copper and 4 to 10.2 ppb (8.1 ppb average) soluble copper. The Unit 2 facility was shutdown for maintenance during November 1990. During this period, the circulating water system was dewatered except during periods when it was being utilized for service water (lake water) surveillance testing.

The total copper concentration in Lake Ontario during November 1990 was maintained below 17 ppb as a result of the discharge of service water from the Unit 2 Circulating Water System. Copper concentrations ranged from 0.3 to 0.9 ppb total copper. The discharge of the Unit 2 Circulating Water System was through the normal system drain line during November 1990.

(DISCHMON.HJF)

