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ILLINOIS POWER

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April 26, 1996

Docket No. 50-461

Document Control Desk
Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Clinton Power Station
Annual Environmental Operating Report

Dear Sir:

In accordance with Appendix B to the Clinton Power Station (CPS) Technical Specifications, Clinton Power Station's Environmental Protection Plan (EPP), Illinois Power (IP) is submitting the Annual Environmental Operating Report. This report covers the period of January 1, 1995, through December 31, 1995.

Sincerely yours,

Michael W. Lyon
Director-Licensing

WSI/csm

Attachment

cc: NRC Clinton Licensing Project Manager
NRC Resident Office, V-690
Regional Administrator, Region III, USNRC

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# Annual Environmental Operating Report

The Environmental Protection Plan (EPP) for Clinton Power Station (CPS) requires that the Annual Environmental Operating Report include:

(A) A list of EPP non-compliances and the corrective actions taken to remedy them.

(B) A list of all changes in station design or operation, tests, and experiments made in accordance with subsection 3.1 of the EPP which involved a potentially significant unreviewed environmental issue.

(C) A list of non-routine reports submitted in accordance with subsection 5.4.2 of the EPP.

(D) Any results and/or assessments for the environmental monitoring programs described in subsection 2.0 of the EPP which were submitted to the respective regulatory agencies during the annual reporting period.

The following provides Illinois Power's response to each listed item.

A. A list of EPP non-compliances and the corrective actions taken to remedy them:

1. & 2. A sample collected on February 15, 1995 at the Extended Aeration Sewage Treatment Plant (Outfall 002a) contained 88 mg/l Total Suspended Solids (TSS) and 120 mg/l Biological Oxygen Demand (BOD). The Daily Maximum permit limit for these parameters are both 60 mg/l. Due to the high BOD concentration from this single sample, the BOD Monthly Average of 45 mg/l exceeded the permit limit of 30 mg/l. A subsequent sample collected on February 16, 1995 was within limits for both parameters and no other anomalies were detected for the remainder of the month.

Corrective Action:

An investigation into the apparent cause of the non-compliances was conducted. No causes were determined for the high TSS and BOD sample results. The investigation did reveal that the sewage treatment plant permit limit exceedance for both parameters were of a short duration and the parameters quickly returned to within permit limits without staff intervention. These non-compliances were considered to be isolated events and no further actions were deemed necessary.

3. A sample collected on March 15, 1995 at the Extended Aeration Sewage Treatment Plant (Outfall 002a) contained 63 mg/l Biological Oxygen Demand (BOD). The permit limit for this parameter is 60 mg/l (Daily Maximum). In addition, the BOD Monthly Average of 32 mg/l exceeded the permit limit of 30 mg/l. A subsequent sample collected on March 22, 1995 was within limits.

   Corrective Action:

   An investigation into the apparent cause of the non-compliance was conducted. The high BOD result is believed to be due to the influx of contract workers (about 850) to augment the Clinton Power Station site staff for the refueling outage which started on March 12, 1995. The decreased efficiency of the Sewage Treatment Plant (STP) was compounded by cold weather. The STP was not operated at sufficient capacity in anticipation of higher influent flow caused by the increased site population, and weather conditions, consequently the microorganism inventory reached a high level and resulted in solids carryover to the effluent. In response to the high BOD limit being exceeded, the sludge wasting rate in the Extended Aeration Sewage Plant was increased and the Contact Stabilization Sewage Treatment Plant was placed in-service to assist in processing the higher influent flows.

B. A list of all changes in station design or operation, tests, and experiments made in accordance with subsection 3.1 of the EPP which involved a potentially significant unreviewed environmental issue:

   There were no changes in station design or operation, tests, and experiments made in accordance with subsection 3.1 of the EPP which involved a potentially significant unreviewed environmental issue.

C. A list of non-routine reports to be submitted in accordance with subsection 5.4.2 of the EPP:

   There were no non-routine reports submitted in accordance with subsection 5.4.2 of the EPP.

D. Any results and/or assessments for the environmental monitoring programs described in subsection 2.0 of the EPP which were submitted to the respective regulatory agencies during the annual reporting period:

   There were no results and/or assessments submitted to regulatory agencies with respect to environmental monitoring programs described in subsection 2.0.