

**Ohio Environmental Protection Agency
Modification of National Pollutant Discharge
Elimination System (NPDES) Permit**

Issue Date: July 17, 1998

Existing Permit No.: 3IB00016*ED

Effective Date: October 1, 1998

Application No.: OH0063461

Entity Name: Cleveland Electric Illuminating Company, Perry Nuclear Power Plant

Facility Location: 10 Center Road, North Perry Village, Ohio, Lake County

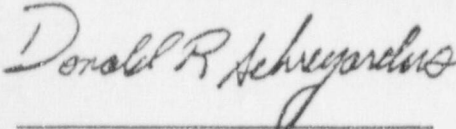
In accordance with Rule 3745-33-06 of the Ohio Administrative Code (formerly Ohio EPA Regulation EP-31-06), the above referenced NPDES Permit is hereby modified as follows:

| <u>Page</u> | <u>Revision</u> |
|-------------|---|
| M2 | Added limits and monitoring requirements for Total Residual Oxidants and Chlorine/Bromine Duration; added footnotes (1), (2), (3), (4), and (5) to outfall 3IB00016004. |

Attached is the modified page to the NPDES permit.

All terms and conditions of the existing permit not recommended for modification by this document will remain in effect. Any modified term or condition contained in this modification shall supersede, on the date this modification is effective, the existing respective term or condition of the permit.

When the modification is effective, the Ohio EPA permit number will be changed to 3IB00016*FD. The application number will remain OH0063461.



Donald R. Schreyardus
Director

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Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3IB00016004. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

| EFFLUENT CHARACTERISTIC | | | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|-------------------------|-------|------------------------------------|-------------------------------|-------|----------------|-------|-------------------------|-------------|
| Reporting Code | Units | Parameter | Concentration Specified Units | | Loading kg/day | | Meas. Freq. | Sample Type |
| | | | 30 day | Daily | 30 day | Daily | | |
| 00011 | °F | Water Temperature* | - | - | - | - | Daily | Continuous |
| 00665 | mg/l | Phosphorus, Total (P) | - | - | - | - | 1/Week | Grab |
| 34044 | mg/l | Oxidants, Total Residual(1)(2) | - | 0.05 | - | - | Daily(4) | Grab |
| 50050 | MGD | Flow Rate | - | - | - | - | Daily | Continuous |
| 50064 | mg/l | Chlorine, Free Available**(1) | 0.2 | 0.5 | - | - | Daily(3) | Grab |
| 78739 | MINS | Chlorination/Bromination Duration- | - | 120 | - | - | Daily(5) | Total |

There shall be no detectable amount in the discharge from this outfall of any priority pollutant, other than chromium and zinc contained in chemicals added for cooling tower maintenance. As of the effective date of this permit, the permittee has stated it does not use chemicals for cooling tower maintenance that contain chromium or zinc; therefore, this outfall does not contain chromium or zinc effluent limitations as required by 40 CFR 423.15. If the permittee, in the future, uses chemicals for cooling tower maintenance which do contain chromium or zinc, the permittee shall apply, prior to the use of the chemicals, for a modification of this permit so as to include the appropriate effluent limitations and monitoring requirements for chromium and/or zinc.

- * Requires intake (31800016800) monitoring. Report intake/outfall temperature estimated to correspond to a maximum temperature differential sustained for one hour.
- ** Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the state that the unit(s) in a particular location cannot operate at or below this level of chlorination. Analyses are to be performed by amperometric titration, orin residual chlorine electrode, or other EPA-approved methods. Sampling at Outfall 004 shall be performed within the appropriate detention time of the chlorination dosage.
- (1) Free Available Chlorine and Total Residual Oxidants limits are the maximum allowed at the outfall at any time. Free Available Chlorine and Total Residual Oxidants may not be discharged from this outfall for more than two hours per day. Simultaneous multi-unit chlorination and/or bromination is permitted. Analyses are to be performed by amperometric titration, Orion Residual Chlorine Electrode, or other EPA approved methods during chlorination and/or bromination. The daily grab samples for Free Available Chlorine and Total Residual Oxidants shall represent the maximum concentration discharged during chlorination and bromination.
- (2) Total Residual Oxidants reflects the use of bromine compounds. Bromine can be used separately or in combination with chlorine. These limits are effective when bromine is used. Discharge limits can be met using a dehalogenation agent, if necessary. Dehalog-nation shall then be achieved by using stoichiometric calculations to determine the amount of dehalogenating agent necessary to completely eliminate the residual.
- (3) Report on days when only chlorine compounds are used (i.e. no bromine compounds). Report "AH" on the monthly operating report if bromine (or a combination of bromine and chlorine) is used and explain in remarks section.
- (4) Report on days when bromine compounds are used with or without chlorine. Report "AH" on the monthly operating report on days when no bromine compounds are used and explain in remarks section.
- (5) Monitoring is to be performed only on days when using chlorine and/or bromine treatment.

2. The pH (Reporting Code 00400) shall not be less than 6.5 S.U. nor greater than 9.0 S.U. and shall be monitored 2/week by grab sample.
3. Samples taken in compliance with monitoring requirements specified above shall be taken at Sampling Stations described in Part II, OTHER REQUIREMENTS.

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National Pollutant Discharge Elimination System (NPDES) Permit Program

PUBLIC NOTICE

NPDES Permit Modification to Discharge to State Waters

Ohio Environmental Protection Agency
1800 WaterMark Drive
P. O. Box 1049
Columbus, Ohio 43266-1049
(614) 644-2001

Public Notice No. OEPA-98-07-036M

Date of Issuance of Proposed Modification: July 17, 1998
Date of Public Notice: July 24, 1998
Effective Date of Modification: October 1, 1998

Name and Address of Applicant: CEI-Perry Nuclear Power Plant, 10 Center Road,
P. O. Box 97, Perry, OH 44081

Name and Address of Facility where Discharge Occurs: CEI-Perry Nuclear Power
Plant, 10 Center Road, North Perry, OH 44081

Location of Discharge: 004 - 41° 48' 10" N; 81° 08' 33" W
005 - 41° 47' 58" N; 81° 09' 17" W
006 - 41° 48' 05" N; 81° 09' 05" W
007 - 41° 48' 21" N; 81° 08' 29" W

Receiving Water: Lake Erie

The purpose of the modification is to add limits and monitoring requirements for Total Residual Oxidants and Chlorination/Bromine Duration and add footnotes (1), (2), (3), (4), and (5) to outfall 3IB00016004. The basic permit was the subject of public notice No. 96-09-014.

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OEPA Permit No.: 3IB00016*FD

Public Notice No.: 98-07-036M

The following statements apply to the modification.

On the basis of preliminary staff review and application of standards and regulations, the Director of the Ohio Environmental Protection Agency has issued a proposed modification for the aforementioned discharge subject to certain effluent conditions and special conditions. The proposed modification is tentative but shall become final on the effective date unless: 1) an adjudication hearing is requested, 2) the Director withdraws and revises the proposed modification after consideration of the record of a public meeting, written comments, or statements, or 3) upon disapproval by the administrator of the U.S. Environmental Protection Agency.

Within thirty days of publication of this notice, any person may submit written comments, a statement as to why the proposed modification should be changed, a request for a public meeting on the proposed modification, and/or a request for notice of further actions concerning the modification. All communications timely received will be considered in the final formulation of the modification. If significant public interest is shown, a public meeting will be held prior to finalization of the modification.

Within 30 days of the issuance of the proposed modification, any officer or an agency of the state or of a political subdivision, acting in his representative capacity or any person aggrieved or adversely affected by issuance of it may request an adjudication hearing by submitting a written objection in accordance with Ohio Revised Code Section 3745.07. Following the finalization of the modification by the Director, any person who was a party to an adjudication hearing may appeal to the Environmental Review Appeals Commission.

All comments or statements on the proposed modification and all requests for notice of further actions should be submitted in person or by mail to: Ohio Environmental Protection Agency, Division of Surface Water, Permits Section, 1800 WaterMark Drive, P. O. Box 1049, Columbus, Ohio 43266-0149. Applications, fact sheets, proposed permits including proposed effluent limitations, special conditions, comments received, and other documents are available for inspection and may be copied at a cost of 5 cents per page at the Ohio Environmental Protection Agency at the above address any time between the hours of 8 a.m. and 4:30 p.m., Monday through Friday. Copies of public notices are available at no charge at the same address.

Requests for, and communications concerning, adjudication hearings and public meetings should be addressed to: Legal Records Section, Ohio Environmental Protection Agency, 1800 WaterMark Drive, P. O. Box 1049, Columbus, Ohio 43266-0149, (614) 644-2115.

All communications should specify the OEPA permit number and public notice number.

Mailing lists are maintained for persons or groups who desire to receive public notice of proposed and final actions taken on applications for dischargers located in the state or in certain geographical areas. Persons or groups may have their names put on such a list by making a written request to the Permits Section. Persons or groups may also request copies of fact sheets, applications, or other documents pertaining to a specific application.