



## Northern Indiana Public Service Company

General Offices / 5265 Hohman Avenue / Hammond, Indiana 46325 / Tel: 853-5200 (219)

JAMES F. PURCELL  
Senior Vice President

February 26, 1980

Mr. Ronald L. Ballard, Chief  
Environmental Projects, Branch #1  
Office of the Nuclear Reactor Relations  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20545

RE: Docket No. 50-367

Dear Mr. Ballard:

Enclosed herewith are twenty-five (25) copies of the Fall, 1979 Quarterly Report on the Bailly Generating Station's Nuclear-1 Ecological Monitoring Program. This is the 22nd Quarterly Report on this work. The Fall 1979 Quarterly Report contains analyses and interpretations of data from October through December, 1979. Also included in this report are analyses for the previous quarter on samples taken late in the period.

Fall 1979 terrestrial sampling was accomplished during October, 1979. Under the study design, no sampling was required in November or December, 1979. The sampling included inspection for foliar effects, vegetation and soil samples, small mammal trapping, large mammal observations, avian counts, and aquatic avian surveys. Parameters indicated continuity with the past analysis. Although several parameters reported in this quarter varied from values reported in the past, the variability was attributable mainly to weather moderation. Soil conductivity analyses are continuing and will be included in the next Quarterly Report.

Fall 1979 aquatic sampling was accomplished in November and early December, 1979. The sampling included a collection of phytoplankton, periphyton, zooplankton, benthos, fisheries, and water quality samples. Additionally, included in this report are analyses of sampling

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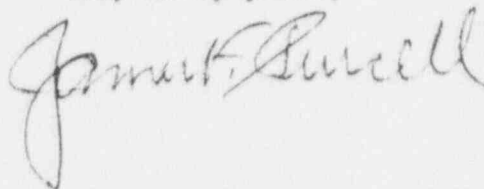
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obtained in August which did not appear in the Summer 1979 Quarterly Report. Aquatic parameters indicated no adverse effects due to plant construction. In general, water quality parameters continued to indicate high water quality in Lake Michigan and generally in the ponds within the study area.

There continues to be no discernible effects to the environment due to Bailly Generating Station Nuclear-1.

Very truly yours,

A handwritten signature in cursive script, appearing to read "James F. Swell".

JFP:cas

Enclosures