

Commonwealth Edison Company
Byron Generating Station
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ComEd

April 17, 1997

LTR: BYRON 97-0017

FILE: 2.12.1522

Mr. A. Bill Beach
Regional Administrator, Region III
U.S. Nuclear Regulatory Commission
801 Warrenville Road
Lisle, Illinois 60532-4351

SUBJECT: Annual Radiological Effluent Release Report Addendum
Byron Station Units 1 and 2
Facility Operating License Nos. NPF 37 and 66
NRC Docket Nos. 50-454 and 50-455

Dear Mr. Beach:

Enclosed is an Addendum to the Byron Nuclear Power Station Annual Radiological Effluent Release Report for January through December, 1996. This addendum is being submitted to include recommendations provided by Regulatory Guide 1.21, Rev. 1, dated June 1974, which were not addressed in the original report. These additions include:

- Provided average stream flow in m³/sec, rather than cfs.
- Included Release Rates for Iodine, Particulate, and Tritium Releases individually, instead of as a combined total.
- Listed Radioactive Waste Shipments destined for burial in cubic meters, rather than cubic ft., and noted that curies per shipment were calculated using measured ratios.
- Added Lower Limits of Detection for Isotopes required to be counted in the ODCM, although not identified in the effluent stream.
- Included 10CFR20 and 10CFR50 dose calculations for infant, child and teenage receptors from 1996 Aquatic & Airborne Effluents in addition to adult calculations.

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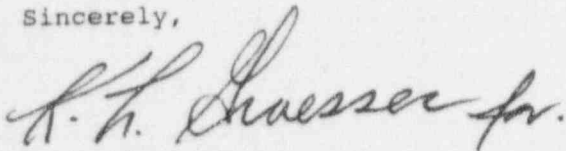


Due to the cost prohibitive nature of providing certain data recommended by Reg. Guide 1.21, some recommendations are not addressed in this addendum. These exceptions are being addressed in a UFSAR Revision and include:

- Providing meteorological data on a quarterly basis for the year both the recommended quarterly basis and hourly basis during batch releases.
- Calculating doses for the maximum exposed member of the public but not total body doses to the public, and average doses to individuals in the population from all receiving-water-related pathways, and gaseous effluents to a distance of 50 miles from the site.

Two copies of the revised pages are provided for your use. Two copies will be forwarded to the Document Control Desk and one copy to the Senior Resident Inspector.

Sincerely,



K.L. Kofron
Station Manager
Byron Nuclear Power Station

KLK/DT/ba

Attachment