



Commonwealth Edison

One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

October 5, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20005

SUBJECT: Byron Generating Station Units 1 and 2
Technical Specifications
NRC Docket Nos. 50-454 and 50-455

Dear Mr. Denton:

During the review with your staff of draft Byron Station Technical Specifications for the Ultimate Heat Sink monitoring devices, Commonwealth Edison committed to provide a program for verifying the existing calculations which correlate Rock River water level and flow rate at the Byron River Screenhouse. The attachment to this letter provides the program for that verification.

Very truly yours,

T. R. Tramm
Nuclear Licensing Administration

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October 4, 1984

Verification of Rock River Water Level and
Flow Rate at the Byron River Screenhouse:

1. A water level recorder will be installed at the river screenhouse to measure the river water level. The river water levels at the screenhouse will be measured daily.
2. The daily river flows at the U. S. G. S. Gaging Stations at Rockton, Illinois and Como, Illinois will be obtained by contacting the National Weather Service, Rockford, Illinois and U. S. Geological Survey at Dekalb, Illinois. The river flow at the river screenhouse will be calculated using the flows at the two gaging stations.
3. The river water level and flow rate will be monitored for a period of 30 days after installing the water level recorder and a rating curve between the flow rate and water level at the screenhouse will be developed.

The applicability of the computed water level of 670.6 feet MSL at the river screenhouse for a flow rate of 700 cfs will be verified after the 30 day period of measurement. If the flow rate in the river does not approach 700 cfs and remains higher than 700 cfs, a correction will be applied to the computed water level of 670.6 feet, based on the comparison of the measured and computed water levels for different flow rates obtained during the period of measurement.