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Docket Nos.: STN 50-454
and STN 50-455

Mr. J. S. Abel
Director of Nuclear Licensing
Commonwealth Edison Company
P. O. Box 767
Chicago, Illinois 60690

Dear Mr. Abel:

Subject; Byron Environmental Review

In the process of our review of the Byron Environmental Report - 0L, we have identified the need for additional meteorological data on a magnetic tape as described in the Enclosure. If you need clarification of this request, contact the Byron Project Manager, J. Snell at (301)492-8986.

Sincerely,

Original signed by
Robert L. Tedesco

Robert L. Tedesco, Assistant Director
for Licensing
Division of Licensing

Enclosure:
Meteorological Data Requirements

cc: See next page



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|---------|------------|---------|-------------|-----------|--|--|--|
| OFFICE | DL:LB#1 | DL:LB#1 | DL:LB#1 | DL:AD/L | | | |
| SURNAME | KLKiper/Tg | JSnell | JYoungblood | RLTedesco | | | |
| DATE | 7/22/81 | 7/22/81 | 7/22/81 | 7/22/81 | | | |

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ENCLOSURE 1

Byron 1 & 2 - Meteorological Data Requirements
ER-OL Stage

372.28 Provide a magnetic data tape of meteorological variables measured onsite. The tape should follow the enclosed format for the data and have the tape attributes described. One complete year, 8760 hours, collected continuously during 1974 - 1976 should be provided. Any missing data should be identified by day and hour on a separate sheet of paper. Substitute data for that which are missing should also be provided on a separate sheet of paper along with the source or basis for the data and a description of any mathematical methods used to develop or interpolate the values. The substituted values should reflect possible diurnal variation in parameters observed at the site, where applicable.

PROPOSED FORMAT FOR HOURLY METEOROLOGICAL
DATA TO BE PLACED ON MAGNETIC TAPE

Use: 9 track tape (7 will be acceptable)

Standard Label which would include

Record Length = 160

Block Size (3200 - fixed block size)

Density (1600 BPI - 800 will be accepted)

Do Not Use: Magnetic tapes with unformatted or spanned records.

At the beginning of each tape, use the first five (5) records (which is the equivalent of ten cards) to give a tape description. Include plant name, location (latitude, longitude) dates of data, information explaining data contained in the "other" fields if they are used, height of measurements, and any additional information pertinent to identification of the tape. Make sure all five records are included, even if some are blank. Format for the first five records will be 160A1. Meteorological data format is (16, 12, 13, 14, 25F5.1, F5.2, 3F5.1). Decimal points should not be included when copying data onto the tape.

All data should be given to a tenth of a unit except solar radiation which should be given to a hundredth of a unit.

This does not necessarily indicate the accuracy of the data.

(e.g. wind direction is usually given to the nearest degree

but record it with a zero in the tenth's place. That is 275

degrees would be 275.0 degrees and placed on the tape as 2750.)

All nines in any field indicates a lost record (99999). All

sevens in a wind direction field indicates calm (77777).

If only two levels of data, use the upper & lower levels. If

only one level of data, use the upper level.

MAGNETIC TAPE
METEOROLOGICAL DATA

LOCATION:

DATE OF DATA RECORD:

| | | |
|-------------|---|-----------------|
| <u>I6</u> | Identifier (can be anything) | |
| <u>I2</u> | Year | |
| <u>I3</u> | Julian Day | |
| <u>I4</u> | Hour (on 24 hr clock) | |
| | | <u>ACCURACY</u> |
| <u>F5.1</u> | Upper Measurements: Level = meters | |
| <u>F5.1</u> | Wind Direction (degrees) | _____ |
| <u>F5.1</u> | Wind Speed (meter/sec) | _____ |
| <u>F5.1</u> | Sigma Theta (degrees) | _____ |
| <u>F5.1</u> | Ambient Temperature (°C) | _____ |
| <u>F5.1</u> | Moisture: _____ | _____ |
| <u>F5.1</u> | Other: _____ | _____ |
| <u>F5.1</u> | Intermediate Measurements: Level = meters | |
| <u>F5.1</u> | Wind Direction (degrees) | _____ |
| <u>F5.1</u> | Wind Speed (meters/sec) | _____ |
| <u>F5.1</u> | Sigma Theta (degrees) | _____ |
| <u>F5.1</u> | Ambient Temperature (°C) | _____ |
| <u>F5.1</u> | Moisture: _____ | _____ |
| <u>F5.1</u> | Other: _____ | _____ |

- F5.1 Lower Measurements: Level = meters
- F5.1 Wind Direction (degrees) _____
- F5.1 Wind Speed (meters/sec) _____
- F5.1 Sigma Theta (degrees) _____
- F5.1 Ambient Temperature (°C) _____
- F5.1 Moisture: _____
- F5.1 Other: _____

- F5.1 Temp Diff (Upper-Lower) (°C/100 meters) _____
- F5.1 Temp Diff (Upper-Intermediate) (°C/100 meters) _____
- F5.1 Temp Diff (Intermediate-Lower) (°C/100 meters) _____
- F5.1 Precipitation (mm) _____
- F5.2 Solar Radiation (cal/cm²/min) _____
- F5.1 Visibility (km) _____
- F5.1 Other: _____
- F5.1 Other: _____

