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VICE-PRESIDENT
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1881 - 1981

February 27, 1984

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Limerick Generating Station, Units 1 and 2
Meteorological Monitoring System

Reference: Letter from J. S. Kemper to A. Schwencer, dated October 13, 1983

File: GOVT 1-1 (NRC)

Dear Mr. Schwencer:

In accordance with the reference letter, we are enclosing a magnetic tape containing hour-by-hour meteorological data for the period of October 15, 1983 to January 15, 1984. The data included and tape formats are described on the attached page.

The reference letter indicated a submittal date of February 15, 1984 for this data. Due to a problem in developing the program to format and analyze the tapes for the new instrumentation, an extension of the submittal date to March 1, 1984 was requested in a telecon between L. Kintner of the Staff and R. J. Stipcevich of PECo on February 24, 1984.

These data are from the primary meteorological tower (Tower No. 1) and Satellite Tower without substitution from Tower No. 2. The new instrumentation on Tower No. 1, complying with Regulatory Guide 1.23, Proposed Rev. 1, was placed in service on October 15, 1983.

The joint data recovery rates of the delta-temperature (266 minus 26 foot elevations) and each of the three elevations of wind sensors were: 97.8% for the 270-ft. level, 98.9% for the 175-ft. level, and 97.9% for the 30-ft. level. These values were calculated by the NRC JFREQ program.

Sincerely,

John S. Kemper

Enclosures

Copy to: (See Attached Service List)

B001 1/1 Tape Advanced To: Meteorological Branch

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Limerick Generating Station
Meteorological Tower 1 Data
NRC Tape Format
10/15/83 - 1/15/84

Data Description	Format	Columns
ID Number (000021)	I6	1-6
Year	I2	7-8
Julian Day	I3	9-11
Hour	I4	12-15
Upper Wind Height (m x 10) (823)	I5	16-20
270-Ft. Wind Direction (°Az x 10)	I5	21-25
270-Ft. Wind Speed (m/sec x 10)	I5	26-30
Turbulence Class*	I5	31-35
Spaces	15X	36-50
Intermediate Wind Height (m x 10) (533)	I5	51-55
175-Ft. Wind Direction (°Az x 10)	I5	56-60
175-Ft. Wind Speed (m/sec x 10)	I5	61-65
175-Ft. Sigma Theta (degrees x 10)	I5	66-70
Spaces	15X	71-85
Lower Wind Height (m x 10) (91)	I5	86-90
30-Ft. Wind Direction (°Az x 10)	I5	91-95
30-Ft. Wind Speed (m/sec x 10)	I5	96-100
30-Ft. Sigma Theta (degrees x 10)	I5	101-105
26-Ft. Ambient Temperature (°C x 10)	I5	106-110
Dew Point Temperature (°C x 10)	I5	111-115
Spaces	5X	116-120
266-26 Ft. Delta Temperature (°C/100 m x 10)	I5	121-125
Spaces	5X	126-130
171-26 Ft. Delta Temperature (°C/100 m x 10)	I5	131-135
Precipitation (mm x 10)	I5	136-140
Satellite Wind Height (m x 10) (98)	I5	141-145
Satellite Wind Direction (°Az x 10)	I5	146-150
Satellite Wind Speed (m/sec x 10)	I5	151-155
Satellite Sigma Theta (degrees x 10)	I5	156-160

* Turbulence Classification System (Gustiness)

1 = Very Unstable
2 = Slightly Unstable
3 = Moderately Unstable
4 = Neutral
5 = Stable