

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8105010387 DUC. DATE: 81/04/30 NOTARIZED: NO DOCKET #  
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250  
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251  
 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335  
 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389

AUTH. NAME AUTHOR AFFILIATION  
 GROZAN, T. Florida Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 NERSES, V. NRC - No Detailed Affiliation Given

SUBJECT: Forwards magnetic data tape of hourly averages of meteorological data for 760901-780831, NRC data tape format & sample of util data. W/o tape.

DISTRIBUTION CODE: 8001S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 7  
 TITLE: PSAR/FSAR AMDTS and Related Correspondence

NOTES: *Tapes Advanced To: V. Nerses*

ACTION:	RECIPIENT		COPIES		RECIPIENT	COPIES	
	ID CODE/NAME	LTR	ENCL	ID CODE/NAME		LTR	ENCL
	A/D OP REACT	1	0	A/D LICENSNG	1	0	
	VARGA, S.	1	0	CLARK, R.	1	0	
	LIC BR #3 BC	1	0	PARRISH, C.	1	0	
	KREUTZER, P.	1	0	LIC BR #3 LA	1	0	
	GRÖTENHUIS, M 04	1	1	NELSON, C. 04	1	1	
	NERSES, V. 04	1	1				
INTERNAL:	ACCID EVAL BR26	1	1	AUX SYS BR 07	1	1	
	CHEM ENG BR 08	1	1	CONT SYS BR 09	1	1	
	CORE PERF BR 10	1	1	EFF TR SYS BR12	1	1	
	EMERG PREP 22	1	0	EQUIP QUAL BR13	3	3	
	GEOSCIENCES 14	1	1	HUM FACT ENG BR	1	1	
	HYD/GEO BR 15	2	2	I&C SYS BR 16	1	1	
	I&E 06	3	3	LIC GUID BR	1	1	
	LIC QUAL BR	1	1	MATL ENG BR 17	1	1	
	MECH ENG BR 18	1	1	MPA	1	0	
	NRC PDR 02	1	1	OELD	1	0	
	OP LIC BR	1	1	POWER SYS BR 19	1	1	
	PROC/TST REV 20	1	1	QA BR 21	1	1	
	RAD ASSESS BR22	1	1	REAC SYS BR 23	1	1	
	REG FILE 01	1	1	SIT ANAL BR 24	1	1	
	STRUCT ENG BR25	1	1				
EXTERNAL:	ACRS 27	10	16	LPDR 03	1	1	
	NSIC 05	1	1				

MA 4 MAY 04 1981

TOTAL NUMBER OF COPIES REQUIRED: LTR 64 ENCL 53

*RS*



FLORIDA POWER & LIGHT COMPANY

INTER-OFFICE CORRESPONDENCE

50-250

TO Vic Nerses  
FROM Tom Grozan  
SUBJECT: Meteorological Data

LOCATION Nuclear Licensing - GO  
DATE 4/30/81  
COPIES TO J. Sheetz  
R. Fisher

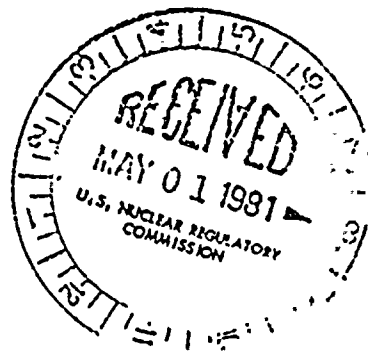
As you requested, I am sending you a magnetic data tape containing hourly averages of meteorological data for the period September 1, 1976 through August 31, 1978.

This is a standard labelled 9-track, 1600 bpi magnetic tape written in EBCDIC with one file. Each logical record is 160 characters in length and written with twenty (20) records per block.

Enclosure 1 is the NRC format used to generate this tape. Attachment 1 is the NRC example of this format and is not actual FPL data. Attachment 2 is a sample of FPL data.

If you have any questions regarding this data, please let us know.

*Tom Grozan*  
Tom Grozan



BOOK  
5/11  
TAPE ADVANCED  
TO:  
V. NERSES

8105010387

P

TCG:gw  
Attachment

PEOPLE... SERVING PEOPLE

Enclosure 1

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, and 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 (I6, I2, I3, I4, 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:

Field No	Identifier (can be anything)	ACCURACY
1	I6	
2	I2	
3	I3	
4	I4	
5	F5.1	Upper Measurements: Level = meters
6	F5.1	Wind Direction (degrees)
7	F5.1	Wind Speed (meter/sec)
8	F5.1	Sigma Theta (degrees)
9	F5.1	Ambient Temperature (°C)
10	F5.1	Moisture: _____
11	F5.1	Other: _____
12	F5.1	Intermediate Measurements: Level = meters
13	F5.1	Wind Direction (degrees)
14	F5.1	Wind Speed (meters/sec)
15	F5.1	Sigma Theta (degrees)
16	F5.1	Ambient Temperature (°C)
17	F5.1	Moisture: _____
18	F5.1	Other: _____

53

54

Enclosure 1

- 19 F5.1 Lower Measurements: Level = meters
- 20 F5.1 Wind Direction (degrees) \_\_\_\_\_
- 21 F5.1 Wind Speed (meters/sec) \_\_\_\_\_
- 22 F5.1 Sigma Theta (degrees) \_\_\_\_\_
- 23 F5.1 Ambient Temperature (°C) \_\_\_\_\_
- 24 F5.1 Moisture: \_\_\_\_\_
- 25 F5.1 Other: \_\_\_\_\_
  
- 26 F5.1 Temp Diff (Upper-Lower) (°C/100 meters) \_\_\_\_\_
- 27 F5.1 Temp Diff (Upper-Intermediate) (°C/100 meters) \_\_\_\_\_
- 28 F5.1 Temp Diff (Intermediate-Lower) (°C/100 meters) \_\_\_\_\_
- 29 F5.1 Precipitation (mm) \_\_\_\_\_
- 30 F5.2 Solar Radiation (cal/cm<sup>2</sup>/min) \_\_\_\_\_
- 31 F5.1 Visibility (km) \_\_\_\_\_
- 32 F5.1 Other: \_\_\_\_\_
- 33 F5.1 Other: \_\_\_\_\_



ATTACHMENT 1 (Cont'd)

- 16 - Temp. Diff. (Upper-Lower) -- from primary sensors at 10 and 40 meters ( $^{\circ}\text{C}/100\text{ m}$ )
- 17 - Temp. Diff. (Upper-Intermediate) -- from secondary sensors at 10 and 40 meters ( $^{\circ}\text{C}/100\text{ m}$ )
- 18 - Temp. Diff. (Intermediate-Lower) -- from sensors at 20 and 120 feet ( $^{\circ}\text{C}/100\text{ m}$ )

(Twenty-five spaces representing the parameters not measured at this location - precipitation, solar radiation, visibility, and two fields for others.)

NOTE:

- 1) The first five (5) records of each file contains the tape and site description. The format for these first five records is 160A1.
- 2) The units of the parameters are as given in the attached Enclosure 1 document. This Enclosure 1 presents the NRC format requirements.
- 3) Some of the wind directions were reduced in sectors for the original record. For the NRC format, these sector values have been converted to the center direction of the sector using the following:

<u>Sector</u>	<u>Direction (degrees)</u>	<u>Sector</u>	<u>Direction (degrees)</u>
1	22.5	9	202.5
2	45.0	10	225.0
3	67.5	11	247.5
4	90.0	12	270.0
5	112.5	13	292.5
6	135.0	14	315.0
7	157.5	15	337.5
8	180.0	16	0

- 4) For variable wind direction measurements, above threshold wind speeds but no predominant wind direction, the field has been filled all eights (88880).

ATTACHMENT '2

Example of Florida Power  
& Light Company Data  
In NRC Format

PLANT NAME - ST. LUCIE UNIT 2  
PLANT LOCATION - HUTCHINSON ISLAND FLORIDA LAT=N27DEG21MIN19SEC  
LONG=W80DEG14MIN49SEC

OWNER - FLORIDA POWER AND LIGHT COMPANY  
DATES OF DATA - 1 SEPT. 1976 TO 31 AUG. 1978  
PREPARED BY DAMES & MOORE - ATLANTA, GA.

DATA UTILIZED IN FSAR ANALYSIS  
MOISTURE IS DEW POINT IN DEG C. DELTA TEMP MEASURED BETWEEN 50-10 METERS.  
PRECIPITATION MEASURED AT SURFACE

DATE AND TIME (CENTRAL) OF TAPE CREATION 04/23/81. 14.29.13.

3017176245	1	579	1125	40	99999	341		269
100 1350		22		264	228	99999	0	
3017176245	2	579	1350	36	263	341		269
100999999		10		263999999	99999	0		
3017176277	3	579	2025	18	260	341		264
100 2475		13		259	228	99999	99999	
3017176277	4	579	2700	9	251	341		250
100 2925		9		251	233	99999	0	
3017176315	5	579999999		13	250	341		256
100 292599999				247	233	99999	0	
3017176315	6	579	315099999		250	341		256
100 3150		9		248	233	99999	0	
3017176356	7	579	3375	9	253	341		258
100 3375		9		251	233	99999	0	
3017177 23	8	579	0	9	269	341		272
100 450		13		269	239	99999	0	
3017177 35	12	579	2925	36	156	341		156
100 2925		27		158	111	-23	0	
3017177 67	13	579	3150	36	164	341		164
100 3150		31		167	111	-23	0	
3017177102	14	579	3375	45	167	341		167
100 3375		40		169	117	-24	0	
3017177133	15	579	0	45	167	341		157
100 3375		36		172	122	-28	0	
3017177181	15	579	0	45	164	341		164
100 0		36		167	122	-24	0	
3017177185	16	579	225	45	158	341		150
100 225		36		162	122	-21	0	
3017177240	20	579	225	31	156	341		157
100 0		18		159	117	-1	0	
3017177243	15	579	1575	31	282	341		206
100 1575		27		283	228	-3	0	
3017177266	16	579	2250	152	244	341		244
100 2250		98		244	217	-5	5	
3017177285	17	579	2025	63	221	341		225
100 2025		49		231	211	-16	5	
3017177315	18	579	2250	40	225	341		228
100 2250		31		231	217	-7	0	
3017177359	19	579	2700	31	228	341		228
100 2700		18		228	217	0	0	
3017177359	20	579	2025	31	229	341		231
100 2025		36		229	217	-5	0	
3017177359	21	579	2025	31	231	341		234
100 2250		27		236	222	-6	0	
3017177359	22	579	2250	40	229	341		232
100 2250		31		234	222	-5	0	
3017178 15	7	579	3150	54	43	341		42
100 3150		45		43	-17	-7	0	
3017178 15	8	579	3150	63	36	341		34
100 3150		45		38	-22	-9	0	
3017178 47	9	579	3150	54	36	341		36
100 3150		45		42	-22	-16	0	
3017178 79	10	579	3150	63	44	341		89
100 3150		49		56	-22	-25	0	