

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
HOPE CREEK GENERATING STATION
DOCKET NO. 50-354

PRIMARY REACTOR CONTAINMENT
PREOPERATIONAL INTEGRATED
LEAKAGE RATE TEST
FINAL REPORT
MARCH 1986

SUBMITTED TO THE
UNITED STATES NUCLEAR REGULATORY COMMISSION

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1.0 INTRODUCTION

The Primary Reactor Containment Integrated Leakage Rate (Type A) Test is performed to demonstrate that leakage thru the primary containment and systems and components that penetrate the primary containment does not exceed the allowable leakage rate as specified in the Hope Creek Generating Station Final Safety Analysis Report.

This preoperational test was successfully concluded on January 3, 1986. The test consisted of the ILRT, supplemental verification test and the drywell to suppression chamber bypass test. Other functions were performed just prior to the ILRT consisting of pressure test visual examinations to complete ASME Section III construction requirements; and pressure test visual examinations to complete repairs and modifications in accordance with ASME Section XI. In addition the response of drywell pressure instrumentation was tested.

This report addresses only the primary containment Integrated Leakage Rate Test and the drywell to suppression chamber bypass test. The test results are reported in accordance with the requirements of 10CFR50, Appendix J, Section V.B.3.

The test program selected was full pressure testing which will be repeated in all subsequent periodic tests. A summary of the test data is found in section 2 of this report, with the full test report in section 3 which contains an analysis and interpretation of the leakage rate test data. Section 4 describes the instrumentation used for the test, as well as details of the computer programs and a schematic arrangement of the leakage rate measurement system.

2.0 TEST DATA SUMMARY

This section contains plant specific data as well as a summary of the ILRT and VLRT test results.

2.1 PLANT INFORMATION

OWNER: Public Service Electric and Gas Company
Docket Number: 50-354
Plant: Hope Creek Generating Station
Location: Hancocks Bridge, New Jersey
Containment Type: Mark I
NSSS Supplier/Type: General Electric Co./BWR 4
Date Test Completed: January 3, 1986

2.2 TECHNICAL DATA - PRIMARY CONTAINMENT

Containment net free air volume (V): 302, 500 CuFt.
Design Pressure (Pd): 62 PSIG
Design Temperature - drywell/torus (Td): 340°F/310°F
Calculated Peak Accident Pressure (Pa): 48.1 PSIG
Calculated Peak Accident Temperature -
Drywell (Ta): 340°F
Calculated Peak Accident Temperature:
Suppression Chamber (Ta): 212°F
Containment ILRT Average Temperature
Limits: 40°F-120°F
Design Leakage Rate (Ld): 0.5 Wt.%/day
Maximum Allowable Leakage Rate(La): 0.5 Wt.%/day
Type A Test Leakage Acceptance Criteria:
(75% of La) 0.375 Wt.%/day

2.3 ILRT DATA

Test Method: Absolute
 Data Analysis Technique: Mass Point
 Test Pressure Requirement: 48.1 (+2.0, -0.0) PSIG
 Test Pressure - Actual: 49.23 PSIG
 Leakage (Wt%/day):

	REGRESSION ANALYSIS	AT 95% UCL	ACCEPTANCE CRITERIA
Measured Leakage (Lam):	0.176	0.181	
Level Corrections:	0.000	0.000	
Valves out of LOCA Alignment:	0.012	0.012	
Valves isolated during ILRT:	0.000	0.000	
Corrected Total Leakage Rate:	0.188	0.193	0.375

2.4 SUPPLEMENTAL (VLRT) TEST DATA

Test Method: Superimposed Leak
 Test Pressure - Actual: 49.02 PSIG
 Applied Leakage (Lo): 0.462 Wt. %/day
 Leakage (Wt. %/day):

Acceptance criteria Lower Limit	Actual Measure Leakage Composite Leak Rate	Acceptance Criteria Upper Limit
(Lo + Lam - 0.25 La)	\leq Lc \leq	(Lo + Lam + 0.25 La)
0.507	0.571	0.763

3.0 TEST REPORT

3.1 PREPARATIONS FOR TEST

Significant test preparation activities performed and documented in accordance with the preoperational ILRT test procedure included the performance of all required Type B and Type C local leakage rate testing. Three (3) valves failed the local leakage rate testing at the time of the ILRT namely, 1-AE-V003, 1-BC-HV-F041B and 1-AB-HV-F022A. These valves were reworked and retested subsequent to the ILRT.

The test instrumentation was calibrated within six (6) months and functionally checked. The data acquisition system was operational and the analysis computer was programmed. The official log of events was established. The temperature survey was performed and the general inspection of the primary containment was completed. The recording of meteorological data was initiated and three (3) drywell cooler fans were operating with the blades set back.

Valve and electrical lineups were established per the procedure and verified, and plant systems were placed in configuration to support the ILRT. The pressurizing facility was set up and a modified controlled access plan was placed into effect. The final briefing of test personnel was conducted.

Prior to pressurizing, a motor operated containment isolation valve stroking program was conducted to ensure these valves were closed by their normal remote means.

3.2 CONTAINMENT PRESSURIZATION

Pressurization commenced at 5:31 A.M. on December 28, 1985 for ASME Section III (SIT) completion pressure test examinations. Various pressure holds as required were performed prior to reaching design pressure (62 PSIG) which was attained at 4:38 P.M. on December 28, 1985. These examinations, as well as examinations required due to repairs and modifications to the primary containment performed under ASME Section XI, were completed at 0:54 A.M. on December 29, 1985. Depressurization to less than 85% of ILRT test pressure was then initiated. Because of some leaks noted during this SIT completion test, depressurization continued down to approx. 8.1 PSIG, to enable repairs prior to the ILRT itself.

Following the repairs, pressurizing for the ILRT commenced at 3:00 A.M. on December 30, 1985. The 24 hour period for maintaining containment pressure to less than 85% Pa (40.8 PSIG) was satisfied at 4:30 A.M., and ILRT pressure was attained at 8:37 A.M. on December 30, 1985. Prior to initiating the temperature stabilization program, a restroking program of remote operated containment isolation valves was conducted. Upon completion of the restroking program, containment pressure was increased slightly to 49.33 PSIG.

3.3 CONTAINMENT STABILIZATION

The temperature stabilization program was initialized at 11:55 P.M. on December 30, 1985 with the temperature stability criteria being satisfied at 3:55 A.M. on December 31, 1985. The temperature stability data is shown in Appendix A.

3.4 ILRT

The ILRT program was initialized at 4:21 A.M. on December 31, 1985 and continued for a full 24 hour period.

Two (2) of the instruments were determined to be malfunctioning for the duration of the ILRT and subsequent VLRT. Dewpoint sensors No. 2 and No. 3 located at Azimuth 45°, Elevation 100' and Azimuth 165°, Elevation 100' respectively were later determined to have blown fuses in the mirror heater circuit.

As a result of these malfunctions, data from these sensors was not used. The weight factors of the remaining dewpoint sensors was recalculated as was the Instrument Selection Guide (ISG). The weight factor data is shown in Appendix I, while the ISG data is shown in Section 4.

Additionally, the ILRT data was recalculated based upon the reassignment of weight factors for the entire ILRT. This data reveals the measured leakage rate (Lam) by regression analysis to be 0.176 Wt %/day, and the measured leakage rate at 95% Upper Confidence Limit (UCL) to be 0.181 Wt. %/day. The ILRT data is shown in Appendix B. Plots of the ILRT data are in Appendix C and the data and plots for each ILRT instrument are shown in Appendix D and Appendix E respectively.

There was a net decrease in water levels of the reactor vessel, suppression chamber and the drywell floor and equipment drain sumps. This decrease in water volume is taken into account in the leakage rate measurements and does not mask an in-leakage, therefore it is not added as a correction.

An addition of 0.012 Wt.%/day was made for penetrations that were not in the postulated accident alignment for the ILRT. These penetrations were used for sensing ILRT pressure, supplying cooling water to the drywell cooler fans, and for the pressurizing path. Also included is the leakage thru KL-HV-5148 for which it was indeterminate whether the valve was properly seated for the ILRT. Plus during the post ILRT walkdown a number of instrument penetrations that are normally open to containment atmosphere were found to have protective covers installed, therefore, may not have been exposed to ILRT pressure. These penetrations were local leak rate tested after the ILRT and the leakage results are included in the 0.012 Wt.%/day.

No leakage paths had to be isolated during the test because of excessive leakage, therefore no corrections were made.

The corrected total leakage rate was 0.188 Wt.%/day by the regression analysis, and 0.193 Wt%/day at 95% UCL. The ILRT was concluded at 4:35 A.M. on January 1, 1986.

3.5 SUPPLEMENTAL (VLRT) TEST

A successful verification leakage rate test (VLRT) was performed following to the ILRT using the superimposed leakage method. A known leakage rate (Lo) of 0.470 Wt%/Day (4.269 SCFM) was imposed on containment at 5:01 A.M. on January 1, 1986. The containment atmospheric conditions were stabilized prior to initializing the VLRT program at 8:11 A.M.

As with the ILRT, the data for the VLRT was recalculated due to the two (2) dewpoint temperature sensor malfunctions. The VLRT was concluded at 12:11 P.M. on January 1, 1986 with a composite leakage rate of 0.571 Wt%/day which was within the acceptance criteria range of 0.507 Wt.%/day to 0.763 Wt%/Day. The VLRT data is shown in Appendix F.

3.6 DEPRESSURIZATION AND DRYWELL BYPASS TEST

Upon completion of the supplemental VLRT test the containment was depressurized starting at 1:30 P.M. on January 1, 1986 and was fully depressurized at 10:28 P.M.

The drywell to suppression chamber vacuum relief valves were then repositioned, and the suppression chamber level was increased to ensure that sufficient submergence would be attained for the vent pipe drain lines.

Pressurization of the drywell for the bypass test commenced at 11:06 P.M. on January 2, 1986, with test pressure of 1.129 PSIG being attained at 11:43 P.M. Following a one (1) hour stabilization hold, test data was recorded. The maximum differential pressure recorded was 0.083 inches of water per minute. The acceptance criteria of 0.250 inches of water per minute for 10 minutes was satisfied, at which time depressurization commenced. The test data is shown in Appendix G. Depressurization was completed at 2:10 A.M. on January 3, 1986 at which time restorations were started.

4.0 INSTRUMENTATION AND DATA REDUCTION

4.1 INSTRUMENTATION DESCRIPTION

The following instruments were utilized for both the ILRT and the supplementary VLRT. The pressure instruments were used for the bypass test as well.

A) Absolute pressure

Quantity: Two (2)
Type: Quartz Bourdon Tube
Range: 0 to 100 PSIA
Accuracy: $\pm 0.15\%$ F.S.
Repeatability: 0.001% F.S.

B) Drybulb temperature

Quantity: Seventeen (17)
Type: Platinum RTD's
Range: 0 to 150°F
Accuracy: $\pm 0.1^\circ\text{F}$ (in 60 to 120°F range)
Repeatability: $\pm 0.1^\circ\text{F}$

C) Dewpoint temperature

Quantity: Six (6)
Type: Chilled mirror
Range: -40°F to 80°F
Accuracy: $\pm 0.40^\circ\text{F}$
Sensitivity: 0.05°F

D) Verification flowmeter

Quantity: One (1)
Type: Thermal mass
Range: 1 to 10 SCFM
Accuracy: $\pm 2\%$ F.S.
Repeatability: $\pm 0.25\%$ F.S.

4.2 INSTRUMENT LOCATIONS

The locations of the drybulb and dewpoint sensors are shown in Appendix H.

4.3 WEIGHTING FACTORS

The recalculated weighting factors are shown in Appendix I.

4.4 INSTRUMENT SELECTION GUIDE (ISG)

The results of the ISG calculations, based upon the deletion of the No. 2 and No. 3 Dewpoint temperature sensors is as follows:

<u>Instrument</u>	<u>Sensitivity</u>	<u>Number of</u>	<u>Measurement</u>	<u>Total</u>
Parameter	Error	Sensors	Error	Error
Pressure	0.001	2	0.0015	0.00127
Dewpoint Temp.	0.050	4	0.0030	0.00023
Drybulb Temp.	0.010	17	0.0040	0.00261

Instrument selection guide (ISG) %/day = 0.0029

4.5 DATA REDUCTION

The instrument outputs were communicated to a data acquisition system (DAS) in both analog and parallel BCD forms. The data acquisition control unit provided analogtion multiplexing and digital monitoring which in turn communicated via an IEEE-488 interface to the mini-computer (HP-9836). A schematic arrangement of the leakage rate measurement system is shown in Appendix K.

The computer program used for the data acquisition and compilation, calculation of the leakage rate and the analysis of this data were developed by PSE&G Research Corporation, Research and Testing Laboratory specifically for the purposes of containment integrated leakage rate testing. The formulas used in these test programs are taken from the formulas and guidelines presented in ANSI N45.5-1972, ANSI/ANS 56.8-1981, and ANS 274. The computer program logic is controlled by user options (Menu) The Menu options and a description of the function of each sub program are as follows:

MENU 1

SET TIME -Sets the computer and data acquisition system clock with the correct date and time.

ENTER SENSOR WEIGHTING FACTOR - Allows the user to enter each sensor's (RTD, Dew Point, Pressure) subvolume weighting factor. It determines if the weighting factors total 100% and if so proceeds to create a file with the data.

CHANGE WEIGHTING FACTOR - Allows the user to change a sensor's assigned weighting factor during the test. If a sensor fails during test its weighting factor can be reassigned to adjacent sensor or split between several sensors. The computer determines if the weighting factors total 100%, and if so, proceeds to create a file with the data.

PRINT WEIGHTING FACTOR- Prints a hard copy of the weighting factor.

ENTER LABEL - Allows the user to enter appropriate identification for all sensors (RTD, Dew Point, Pressure).

CHANGE DATA - At any time during test, after changing the weighting factors, the test data can be recalculated using the previous recorded raw data minus the incorrect sensor data.

MENU 2

CONTAINMENT CONDITION (CONT-COND). The containment condition sub program scans all test sensors through the Data Acquisition System (DAS) at the preset time interval (1 min-24 hour) and is used as interim tests, before and during pressurization and depressurization. It calculates the weighted average containment temperature, dew point, pressure, pressurization rate (calculated per scan expressed as psia/hour), the differential temperature between the containment temperature and dew point temperature, and the percent relative humidity. The data is stored on file (CONTDATA) and results printed after each scan.

STABILITY - The temperature stability test scans all test sensors (DAS) at the preset time interval (1 min - 24 hour). It then calculates the weighted average containment, temperature, dew point, pressure. The containment temperature stability is calculated in accordance with ANSI/ANS 56.8 1981 Appendix F. The data is stored on file (STABDATA) and results printed after each scan.

INTEGRATED LEAKAGE RATE TEST - The Integrated Leakage rate program scans all test sensors (DAS) at the preset time interval (1 min - 24 hour). It then checks each sensor to determine the differential from the last scan. (RTD's 1°F, Dew Point 5°F, pressure 0.1 PSIA) If the differential exceeds the allowable a warning message is printed with the sensor number and the differential. This allows the test engineer to monitor this sensor and determine what action to initiate. The weighted average containment temperature, dew point and pressure are calculated and these are then used to calculate the containment mass. If sufficient data scans have been recorded (6 scans) the least square regression is calculated and the slope (Lbm/hr) recorded.

The percentage daily leakage rate is calculated from the rate of change of mass and the mass (intercept) in the containment at each scan. The uncertainty in the estimated value is assessed in terms of the standard deviation of the slope, intercept and their covariance, followed by the computation of an upper limit of the 95th confidence level.

The data is store on file (ILRTDATA) and results printed after each scan.

VERIFICATION - The verification test superimposed leak is manually initiated and adjusted to the desired flow, then the verification program is initiated. The program scans all test sensors (DAS) at the preset time interval (1 min- 24 hour). The data acquisition system also determines the flow from the thermal mass flowmeter which is monitoring the superimposed leak.

The computer continues to calculate the leakage rates as in the ILRT program and also calculates the superimposed leakage using the superimposed flow. The data is stored on file (VERDATA) and results printed after each scan.

MENU 3

PRINT RAW DATA - At any time during tests the raw data from all sensors for any scan (10 scan minimum) can be printed.

PLOT SENSORS - A plot of any individual sensor (RTD, Dew Point, Pressure) can be viewed on the CRT and a hard copy plotted if desired.

PLOT AVERAGES - A plot of any containment weighted average, temperature, dew point or pressure can be viewed on the CRT and a hard copy plotted if desired.

MASS PLOT - A Plot of the containment mass can be viewed on the CRT and a hard copy plotted if desired.

LEAKAGE RATE-PERCENT/DAY - A plot of the containment leakage rate and upper confidence level in percent/day can be viewed on the CRT and a hard copy plotted if desired.

LEAKAGE RATE - Lbm/Hr- A plot of the containment leakage rate and upper confidence level in pounds mass per hour can be viewed on the CRT and a hard copy plotted if desired.

5.0 REFERENCES

- 5.1 10CFR50, Appendix J., 3/6/73 as ammended - Primary Reactor Containment leakage Testing for Water - cooled Power Plant Reactors.
- 5.2 ANSI N45.4 - 1972 - Leakage Rate Testing of containment structures for nuclear reactors.
- 5.3 ANSI/ANS 56.8 - 1981 - Containment Systems Leakage Testing Requirements.
- 5.4 Public Service Startup Group Preoperational Test Procedure No. PSSUG-PTP-GP-1, Rev. 0, Primary Containment Integrated Leakage Rate Test.

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HOPE CREEK GENERATING STATION

TEMPERATURE STABILITY

SCAN No.	TIME Hour	AMBIENT		CONTAINMENT			MASS Lbm	STABILITY		
		PRESS Psia	TEMP DegF	TEMP DegF	DEW PT DegF	PRESS Psia		AUG DIFF/4hr DegF	AUG DIFF/1hr DegF	AUG DIFF DegF
1	23:55	14.93	38.87	75.96	71.35	64.26	97372	0.00	0.00	0.00
2	00:10	14.93	38.41	75.92	71.37	64.25	97356	0.00	0.00	0.00
3	00:25	14.93	38.15	75.85	71.33	64.24	97359	0.00	0.00	0.00
4	00:40	14.93	37.90	75.83	71.33	64.24	97358	0.00	0.00	0.00
5	00:55	14.93	38.16	75.81	71.29	64.23	97355	0.00	0.00	0.00
6	01:10	14.92	38.00	75.80	71.30	64.23	97355	0.00	0.00	0.00
7	01:25	14.92	37.68	75.79	71.28	64.23	97352	0.00	0.00	0.00
8	01:40	14.92	37.09	75.78	71.28	64.22	97350	0.00	0.00	0.00
9	01:55	14.92	36.83	75.78	71.26	64.22	97346	0.00	0.00	0.00
10	02:10	14.92	36.56	75.77	71.26	64.22	97344	0.00	0.00	0.00
11	02:25	14.91	36.97	75.76	71.27	64.22	97342	0.00	0.00	0.00
12	02:40	14.91	37.35	75.70	71.24	64.21	97350	0.00	0.00	0.00
13	02:55	14.91	37.33	75.69	71.26	64.21	97346	0.00	0.00	0.00
14	03:10	14.91	37.52	75.68	71.24	64.21	97346	0.00	0.00	0.00
15	03:25	14.91	37.43	75.67	71.24	64.21	97345	0.00	0.00	0.00
16	03:40	14.91	37.97	75.67	71.24	64.20	97340	0.00	0.00	0.00

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TEMPERATURE STABILITY

SCAN No.	TIME Hour	AMBIENT		CONTAINMENT			MASS Lbm	STABILITY		AUG DIFF DegF
		PRESS Psia	TEMP DegF	TEMP DegF	DEW PT DegF	PRESS Psia		AUG DIFF/4hr DegF	AUG DIFF/1hr DegF	
17	03:55	14.90	38.17	75.67	71.23	64.20	97338	.07	.02	-.05
18	04:10	14.90	38.26	75.64	71.24	64.20	97341	.07	.04	-.03
19	19:21	14.95	41.71	76.06	69.29	64.02	97020	.08	.05	-.02

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RECALC-MASS PLOT DATA

SCAN No.	TIME Hour	AMBIENT		CONTAINMENT			MASS Lbm	LEAK RATE		UCL 95%		CALC MASS Lbm
		PRESS Psia	TEMP DegF	TEMP DegF	DEW PT DegF	PRESS Psia		Lbm/Hr	%/Day	Lbm/Hr	%/Day	
1	04:21	14.90	38.64	75.65	69.23	64.20	97373	0.00	0.000	0.00	0.000	0
2	04:35	14.90	38.98	75.63	69.26	64.20	97374	0.00	0.000	0.00	0.000	99207
3	04:50	14.90	38.56	75.62	69.26	64.19	97371	0.00	0.000	0.00	0.000	99148
4	05:05	14.90	38.25	75.62	69.27	64.19	97368	0.00	0.000	0.00	0.000	99089
5	05:20	14.89	38.55	75.61	69.28	64.19	97367	0.00	0.000	0.00	0.000	99029
6	05:35	14.89	38.73	75.61	69.29	64.19	97363	-10.88	.268	-13.51	.333	98970
7	05:50	14.89	38.84	75.62	69.26	64.18	97358	-12.20	.301	-14.80	.365	98911
8	06:05	14.88	38.95	75.60	69.20	64.18	97357	-11.70	.288	-13.56	.334	98852
9	06:20	14.88	39.17	75.58	69.25	64.18	97360	-9.66	.238	-12.82	.316	98793
10	06:35	14.88	39.15	75.58	69.27	64.18	97355	-9.30	.229	-11.72	.289	98734
11	06:50	14.88	39.36	75.57	69.26	64.18	97353	-9.13	.225	-11.03	.272	98675
12	07:05	14.88	39.33	75.57	69.25	64.17	97348	-9.48	.234	-11.07	.273	98616
13	07:20	14.88	39.47	75.57	69.23	64.17	97344	-9.92	.244	-11.34	.279	98557
14	07:35	14.87	39.90	75.57	69.24	64.17	97341	-10.32	.254	-11.61	.286	98498
15	07:50	14.87	39.85	75.57	69.24	64.16	97338	-10.65	.263	-11.82	.291	98439
16	08:05	14.87	40.51	75.57	69.28	64.16	97333	-11.05	.272	-12.17	.300	98379

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RECALC-MASS PLOT DATA

SCAN No.	TIME Hour	AMBIENT		CONTAINMENT			MASS Lbm	LEAK RATE		UCL 95%		CALC MASS Lbm
		PRESS Psia	TEMP DegF	TEMP DegF	DEW PT DegF	PRESS Psia		Lbm/Hr	%/Day	Lbm/Hr	%/Day	
17	08:20	14.86	40.55	75.55	69.24	64.16	97333	-11.11	.274	-12.09	.298	98320
18	08:35	14.86	41.14	75.55	69.23	64.16	97332	-11.01	.271	-11.87	.293	98261
19	08:50	14.86	40.91	75.51	69.25	64.16	97338	-10.33	.255	-11.46	.282	98202
20	09:05	14.85	42.11	75.54	69.17	64.15	97329	-10.22	.252	-11.23	.277	98143
21	09:20	14.85	41.71	75.51	69.20	64.15	97332	-9.85	.243	-10.86	.268	98084
22	09:35	14.85	42.41	75.48	69.24	64.15	97334	-9.33	.230	-10.44	.257	98025
23	09:50	14.85	43.75	75.50	69.25	64.15	97329	-9.06	.223	-10.11	.249	97966
24	10:05	14.85	44.09	75.47	69.22	64.15	97331	-8.67	.214	-9.74	.240	97907
25	10:20	14.85	44.87	75.39	69.26	64.15	97341	-7.88	.194	-9.24	.228	97848
26	10:35	14.84	45.34	75.40	69.20	64.14	97338	-7.32	.180	-8.73	.215	97789
27	10:50	14.84	46.45	75.38	69.19	64.14	97338	-6.81	.168	-8.25	.203	97730
28	11:05	14.83	47.33	75.39	69.27	64.14	97331	-6.57	.162	-7.93	.195	97670
29	11:20	14.82	48.38	75.38	69.27	64.14	97330	-6.36	.157	-7.64	.188	97611
30	11:35	14.82	48.27	75.39	69.25	64.14	97328	-6.20	.153	-7.41	.183	97552
31	11:50	14.82	48.29	75.35	69.24	64.14	97331	-5.94	.146	-7.11	.175	97493
32	12:05	14.83	49.18	75.37	69.22	64.13	97326	-5.82	.143	-6.92	.171	97434

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HOPE CREEK GENERATING STATION

RECALC-MASS PLOT DATA

SCAN No.	TIME Hour	AMBIENT		TEMP DegF	CONTAINMENT		MASS Lbm	LEAK RATE		UCL 95%		CALC MASS Lbm
		PRESS Psia	TEMP DegF		DEW PT DegF	PRESS Psia		Lbm/Hr	%/Day	Lbm/Hr	%/Day	
33	12:20	14.83	49.67	75.37	69.23	64.13	97321	-5.81	.143	-6.84	.169	97375
34	12:35	14.83	50.16	75.37	69.21	64.13	97320	-5.79	.143	-6.76	.167	97316
35	12:50	14.77	49.83	75.37	69.21	64.13	97317	-5.79	.143	-6.70	.165	97257
36	13:05	14.77	49.32	75.35	69.23	64.13	97320	-5.72	.141	-6.57	.162	97198
37	13:20	14.77	49.35	75.33	69.23	64.13	97320	-5.63	.139	-6.44	.159	97139
38	13:35	14.77	48.80	75.32	69.21	64.12	97319	-5.54	.137	-6.32	.156	97080
39	13:50	14.77	48.68	75.34	69.25	64.12	97314	-5.53	.136	-6.27	.154	97020
40	14:05	14.77	48.21	75.33	69.26	64.12	97310	-5.57	.137	-6.27	.154	96961
41	14:20	14.77	48.73	75.30	69.20	64.12	97313	-5.53	.136	-6.20	.153	96902
42	14:35	14.78	48.94	75.31	69.22	64.11	97308	-5.55	.137	-6.18	.152	96843
43	14:50	14.78	48.10	75.32	69.22	64.11	97302	-5.62	.139	-6.23	.154	96784
44	15:05	14.78	47.62	75.32	69.21	64.11	97300	-5.70	.140	-6.28	.155	96725
45	15:20	14.78	47.58	75.31	69.22	64.11	97300	-5.74	.142	-6.31	.155	96666
46	15:35	14.78	46.52	75.32	69.26	64.11	97297	-5.80	.143	-6.34	.156	96607
47	15:50	14.78	47.30	75.32	69.23	64.11	97294	-5.87	.145	-6.39	.158	96548
48	16:05	14.79	46.04	75.32	69.19	64.11	97294	-5.91	.146	-6.42	.158	96489

31 Dec 1985

HOPE CREEK GENERATING STATION

RECALC-MASS PLOT DATA

SCAN No.	TIME Hour	AMBIENT		CONTAINMENT			MASS Lbm	LEAK RATE		UCL 95%		CALC MASS Lbm
		PRESS Psia	TEMP DegF	TEMP DegF	DEW PT DegF	PRESS Psia		Lbm/Hr	%/Day	Lbm/Hr	%/Day	
49	16:20	14.79	45.41	75.29	69.20	64.10	97297	-5.91	.146	-6.39	.157	96430
50	16:35	14.79	45.20	75.30	69.21	64.10	97294	-5.92	.146	-6.38	.157	96371
51	16:50	14.79	44.60	75.30	69.22	64.10	97292	-5.93	.146	-6.38	.157	96311
52	17:05	14.79	44.82	75.29	69.21	64.10	97291	-5.94	.146	-6.37	.157	96252
53	17:20	14.79	44.83	75.31	69.16	64.10	97286	-5.98	.147	-6.39	.158	96193
54	17:35	14.80	44.72	75.30	69.23	64.10	97284	-6.01	.148	-6.41	.158	96134
55	17:50	14.80	44.86	75.29	69.28	64.10	97282	-6.05	.149	-6.44	.159	96075
56	18:05	14.80	45.06	75.29	69.21	64.10	97283	-6.07	.150	-6.44	.159	96016
57	18:20	14.80	44.94	75.30	69.24	64.09	97277	-6.11	.151	-6.47	.160	95957
58	18:35	14.79	45.07	75.31	69.25	64.09	97272	-6.18	.152	-6.53	.161	95898
59	18:50	14.79	44.67	75.30	69.28	64.09	97273	-6.22	.153	-6.57	.162	95839
60	19:05	14.79	44.66	75.30	69.15	64.09	97272	-6.25	.154	-6.59	.163	95780
61	19:20	14.79	44.40	75.30	69.22	64.09	97268	-6.30	.155	-6.63	.163	95721
62	19:35	14.79	44.81	75.29	69.22	64.09	97268	-6.34	.156	-6.66	.164	95661
63	19:50	14.79	44.73	75.27	69.29	64.08	97265	-6.37	.157	-6.69	.165	95602
64	20:05	14.79	45.11	75.28	69.27	64.08	97264	-6.41	.158	-6.72	.166	95543

31 Dec 1985

HOPE CREEK GENERATING STATION

RECALC-MASS PLOT DATA

SCAN No.	TIME Hour	AMBIENT		CONTAINMENT			MASS Lbm	LEAK RATE		UCL 95% Lbm/Hr	95% %/Day	CALC MASS Lbm
		PRESS Psia	TEMP DegF	TEMP DegF	DEW PT DegF	PRESS Psia		Lbm/Hr	%/Day			
65	20:20	14.79	44.84	75.29	69.23	64.09	97268	-6.40	.158	-6.70	.165	95484
66	20:35	14.79	44.23	75.29	69.26	64.09	97269	-6.39	.157	-6.68	.165	95425
67	20:50	14.79	44.08	75.28	69.27	64.08	97265	-6.38	.157	-6.67	.164	95366
68	21:05	14.79	44.02	75.27	69.29	64.08	97261	-6.39	.158	-6.67	.164	95307
69	21:20	14.79	44.34	75.28	69.25	64.08	97258	-6.41	.158	-6.67	.164	95248
70	21:35	14.79	44.57	75.27	69.26	64.08	97256	-6.42	.158	-6.68	.165	95189
71	21:50	14.79	44.68	75.29	69.24	64.07	97251	-6.46	.159	-6.71	.165	95130
72	22:05	14.79	44.69	75.29	69.26	64.07	97248	-6.49	.160	-6.74	.166	95071
73	22:20	14.79	44.92	75.28	69.28	64.07	97247	-6.52	.161	-6.77	.167	95011
74	22:35	14.79	44.90	75.27	69.27	64.07	97245	-6.55	.161	-6.79	.167	94952
75	22:50	14.79	45.28	75.27	69.22	64.07	97244	-6.57	.162	-6.80	.168	94893
76	23:05	14.79	45.72	75.31	69.32	64.07	97235	-6.62	.163	-6.86	.169	94834
77	23:20	14.79	45.52	75.29	69.35	64.07	97236	-6.66	.164	-6.90	.170	94775
78	23:35	14.79	45.61	75.28	69.24	64.06	97234	-6.70	.165	-6.93	.171	94716
79	23:50	14.79	45.71	75.29	69.33	64.06	97231	-6.74	.166	-6.97	.172	94657
80	00:05	14.79	45.80	75.27	69.28	64.06	97233	-6.76	.167	-6.99	.172	94598

1 Jan 1986

HOPE CREEK GENERATING STATION

RECALC-MASS PLOT DATA

SCAN No.	TIME Hour	AMBIENT		CONTAINMENT			MASS Lbm	LEAK RATE		UCL 95% Lbm/Hr	95% %/Day	CALC MASS Lbm
		PRESS Psia	TEMP DegF	TEMP DegF	DEW PT DegF	PRESS Psia		Lbm/Hr	%/Day			
81	00:20	14.78	45.61	75.26	69.25	64.06	97233	-6.78	.167	-7.00	.173	94539
82	00:35	14.78	45.29	75.27	69.28	64.06	97227	-6.81	.168	-7.02	.173	94480
83	00:50	14.78	45.20	75.26	69.27	64.06	97226	-6.83	.168	-7.04	.174	94421
84	01:05	14.79	45.18	75.25	69.38	64.05	97225	-6.85	.169	-7.06	.174	94362
85	01:20	14.79	45.79	75.26	69.29	64.05	97223	-6.87	.169	-7.07	.174	94302
86	01:35	14.79	45.62	75.24	69.27	64.05	97225	-6.87	.169	-7.08	.174	94243
87	01:50	14.79	45.52	75.27	69.27	64.05	97218	-6.90	.170	-7.10	.175	94184
88	02:05	14.79	45.74	75.27	69.29	64.05	97214	-6.92	.171	-7.12	.176	94125
89	02:20	14.79	45.53	75.26	69.31	64.05	97213	-6.95	.171	-7.14	.176	94066
90	02:35	14.79	45.02	75.27	69.34	64.05	97209	-6.98	.172	-7.17	.177	94007
91	02:50	14.79	44.32	75.27	69.31	64.04	97207	-7.01	.173	-7.20	.177	93948
92	03:05	14.80	44.29	75.27	69.32	64.04	97206	-7.03	.173	-7.22	.178	93889
93	03:20	14.80	44.25	75.25	69.24	64.04	97211	-7.03	.173	-7.22	.178	93830
94	03:35	14.80	43.49	75.25	69.28	64.04	97209	-7.04	.173	-7.22	.178	93771
95	03:50	14.80	43.23	75.28	69.32	64.04	97198	-7.07	.174	-7.25	.179	93712
96	04:05	14.81	43.12	75.27	69.28	64.04	97197	-7.09	.175	-7.27	.179	93652

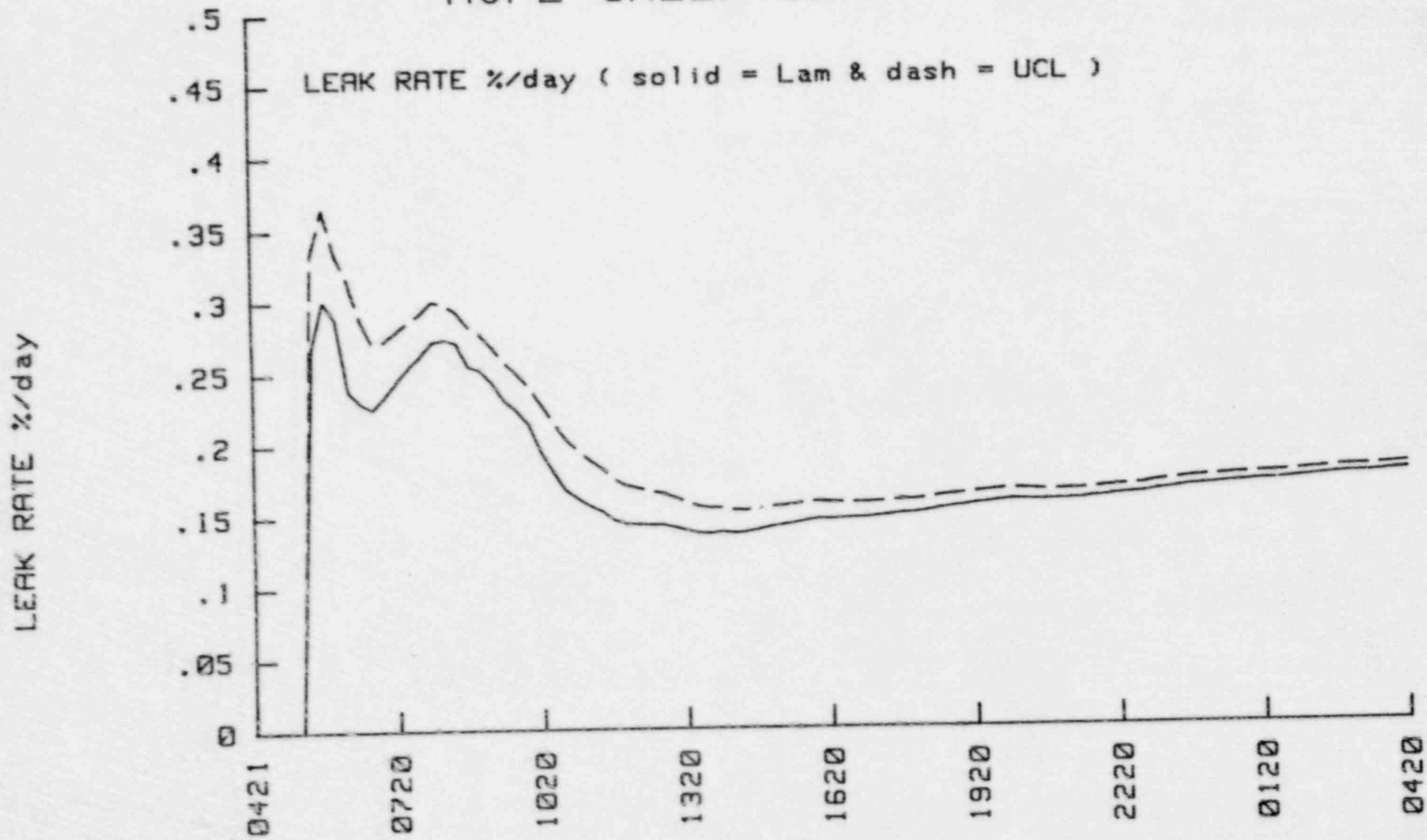
1 Jan 1986

HOPE CREEK GENERATING STATION

RECALC-MASS PLOT DATA

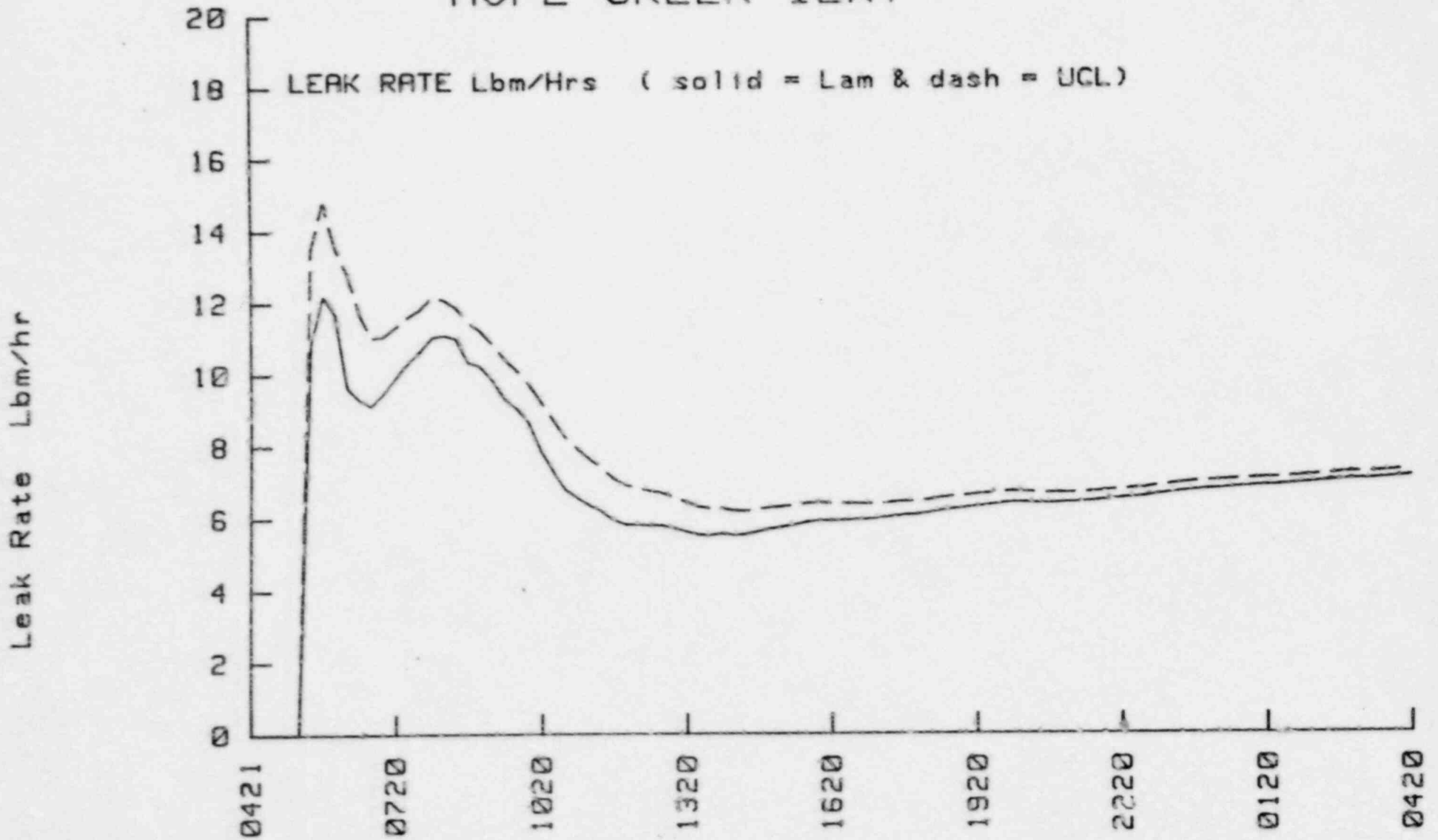
SCAN No.	TIME Hour	AMBIENT		CONTAINMENT			MASS Lbm	LEAK RATE		UCL 95%		CALC MASS Lbm
		PRESS Psia	TEMP DegF	TEMP DegF	DEW PT DegF	PRESS Psia		Lbm/Hr	%/Day	Lbm/Hr	%/Day	
97	04:20	14.81	43.01	75.27	69.30	64.04	97196	-7.11	.175	-7.29	.180	93593

HOPE CREEK ILRT



TIME hour31 Dec 1985

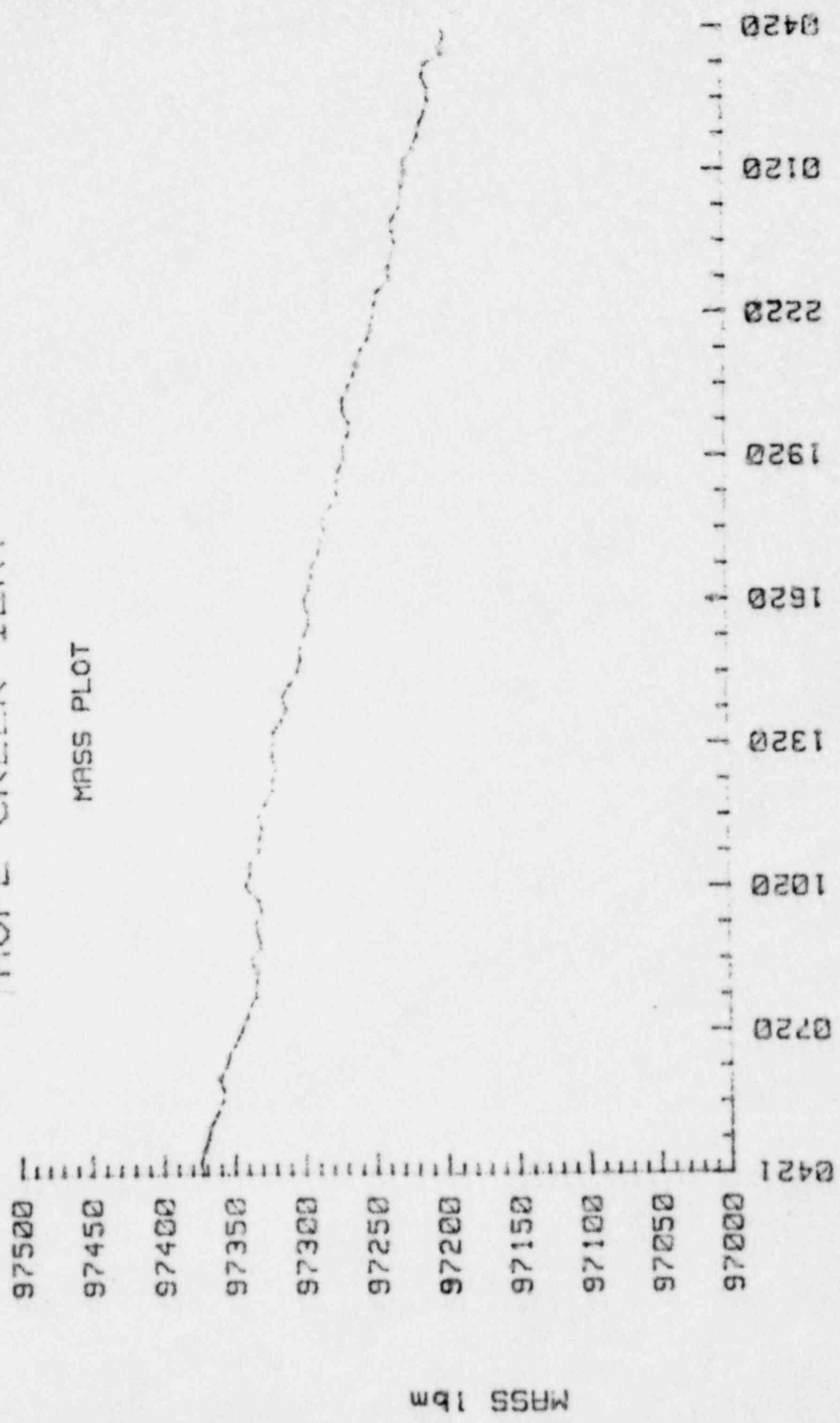
HOPE CREEK ILRT



TIME hour31 Dec 1985

HOPE CREEK ILRT

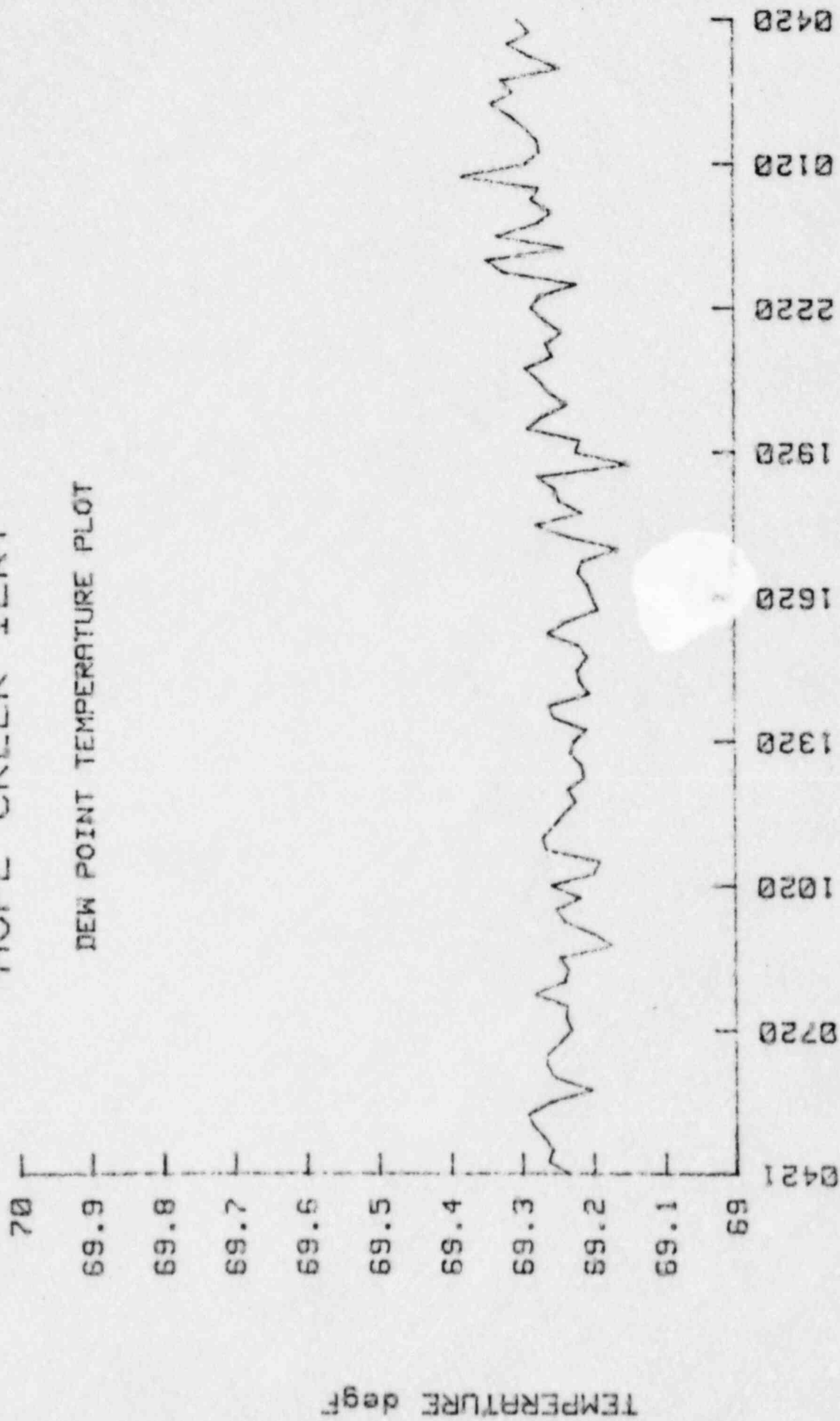
MASS PLOT



TIME hour 31 Dec 1985

HOPE CREEK ILRT

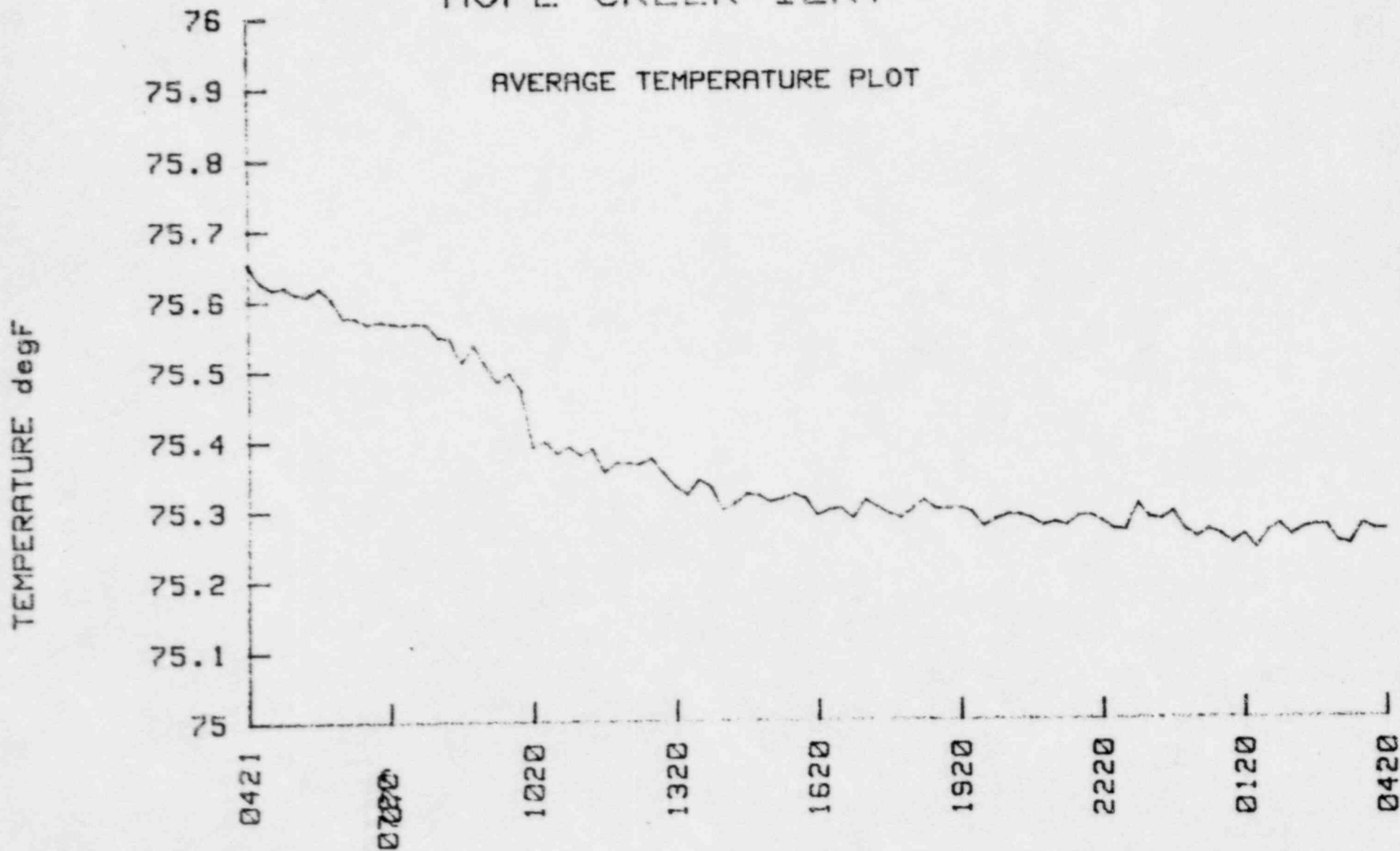
DEW POINT TEMPERATURE PLOT



TIME hour 31 Dec 1985

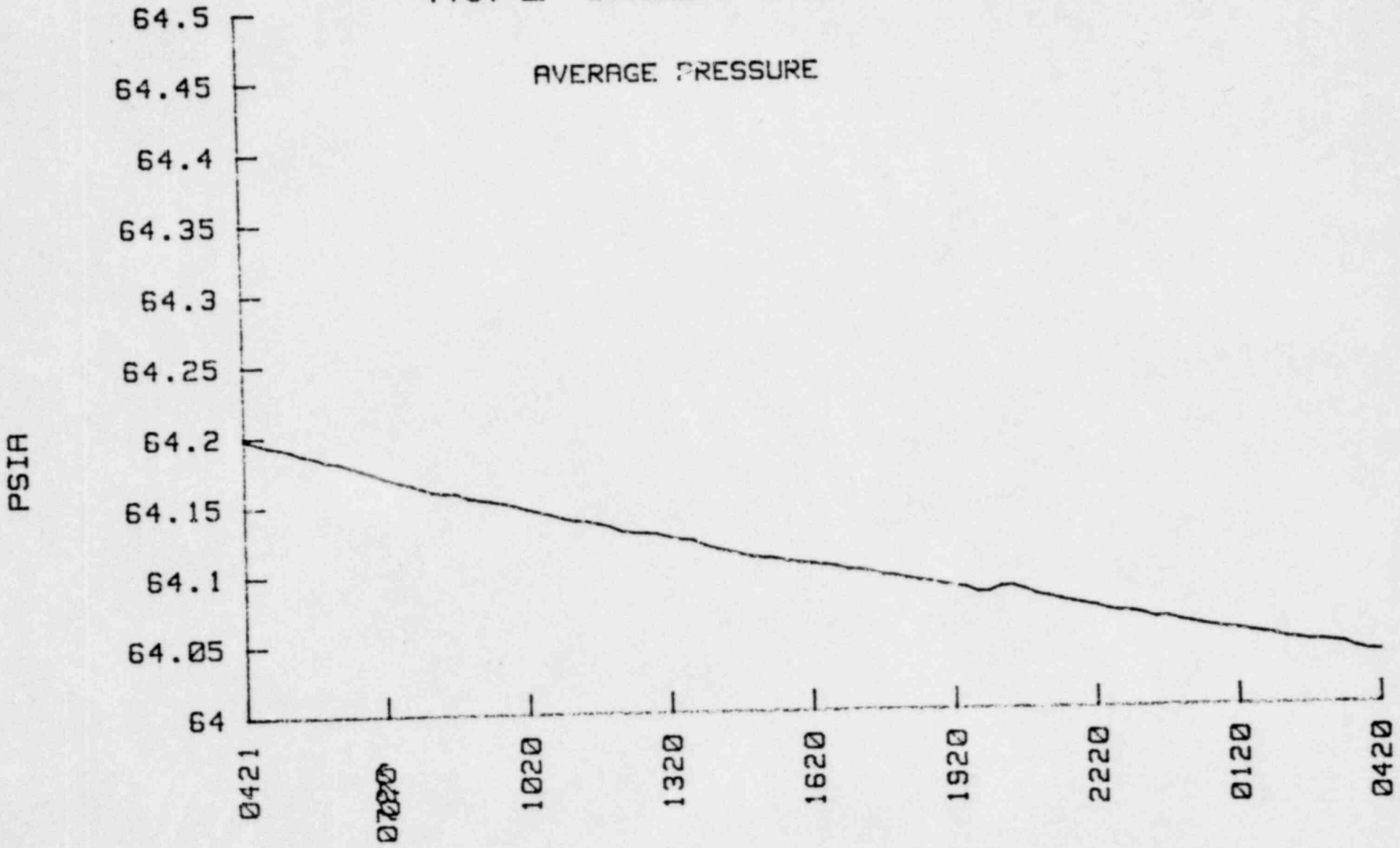
HOPE CREEK ILRT

AVERAGE TEMPERATURE PLOT



TIME hour 31 Dec 1985

HOPE CREEK ILRT



TIME hour 31 Dec 1985

31 Dec 1985

HOPE CREEK GENERATING STATION

CONTAINMENT TEMPERATURE

SENSOR	LOCATION	SCAN 1 04:21	SCAN 2 04:35	SCAN 3 04:50	SCAN 4 05:05	SCAN 5 05:20	SCAN 6 05:35	SCAN 7 05:50	SCAN 8 06:05	SCAN 9 06:20	SCAN 10 06:35
1	EL 162 Az 45	79.8	79.7	79.7	79.8	79.8	79.7	79.8	79.7	79.7	79.7
2	EI 162 Az 165	78.9	78.8	78.9	78.9	78.9	78.9	78.8	78.9	78.9	78.8
3	EI 162 Az 285	78.9	78.9	78.8	78.8	78.9	78.8	79.0	78.9	78.8	78.9
4	EI 122 Az 45	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.1	79.1
5	EI 122 Az 135	78.8	78.8	78.8	78.7	78.8	78.8	78.8	78.8	78.8	78.8
6	EI 122 Az 225	79.1	79.2	79.1	79.1	79.0	79.1	79.1	79.1	79.1	79.1
7	EI 122 Az 315	79.3	79.3	79.2	79.3	79.2	79.2	79.2	79.2	79.3	79.2
8	EI 100 Az 45	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
9	EI 100 Az 135	75.7	75.8	75.7	75.7	75.7	75.8	75.8	75.8	75.8	75.8
10	EI 100 Az 225	77.5	77.5	77.4	77.5	77.5	77.4	77.5	77.5	77.4	77.6
11	EI 100 Az 315	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
12	Torus Az 45	72.7	72.7	72.8	72.8	72.7	72.7	72.7	72.7	72.7	72.6
13	Torus 105	72.2	72.1	72.1	72.1	72.1	72.1	72.3	72.1	72.1	72.1
14	Torus 165	72.0	71.9	71.8	71.9	71.8	71.8	71.7	71.7	71.7	71.7
15	Torus 225	72.0	72.0	71.9	71.9	72.0	71.9	71.9	71.9	71.9	71.9
16	Torus 285	72.5	72.5	72.5	72.5	72.5	72.5	72.4	72.5	72.4	72.4
17	Torus 345	72.8	72.8	72.7	72.7	72.7	72.6	72.7	72.7	72.6	72.6
18	Amb #1	70.4	70.3	70.3	70.3	70.2	70.2	70.2	70.2	70.2	70.3
19	Amb #2	70.9	70.8	70.9	70.9	70.8	70.8	70.8	70.8	70.8	70.9
20	Amb #3	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
21	Amb #4	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.0	74.1
22	Amb #5	73.4	73.3	73.4	73.5	73.4	73.3	73.4	73.6	73.5	73.6
23	Amb #6	38.6	39.0	38.6	38.3	38.5	38.7	38.8	38.9	39.2	39.2
24	Amb #7	77.7	77.7	77.8	77.6	77.9	78.0	78.1	77.8	77.8	77.1

DEW POINT TEMPERATURE

SENSOR	LOCATION	SCAN 1 04:21	SCAN 2 04:35	SCAN 3 04:50	SCAN 4 05:05	SCAN 5 05:20	SCAN 6 05:35	SCAN 7 05:50	SCAN 8 06:05	SCAN 9 06:20	SCAN 10 06:35
1	EI 162 Az 45	68.6	68.7	68.6	68.8	68.8	68.8	68.7	68.3	68.6	68.7
2	EI 100 Az 45	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
3	EI 100 Az 165	76.2	76.2	76.2	76.2	76.2	76.1	76.2	76.2	76.2	76.2
4	EI 100 Az 285	69.0	69.0	69.1	69.0	69.1	69.1	69.1	69.1	69.1	69.1
5	Torus Az 45	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.2	69.2
6	Torus Az 225	69.9	70.0	69.8	70.0	69.9	69.9	69.8	70.0	69.9	69.9
7	Amb D.P.	6.7	6.7	7.2	7.0	-0.0	-0.0	22.4	22.8	22.8	22.7

PRESSURE psia

SENSOR	LOCATION	SCAN 1 04:21	SCAN 2 04:35	SCAN 3 04:50	SCAN 4 05:05	SCAN 5 05:20	SCAN 6 05:35	SCAN 7 05:50	SCAN 8 06:05	SCAN 9 06:20	SCAN 10 06:35
1		64.23	64.23	64.23	64.23	64.22	64.22	64.22	64.22	64.21	64.21
2		64.17	64.16	64.16	64.16	64.16	64.15	64.15	64.15	64.15	64.15
3		14.90	14.90	14.90	14.90	14.89	14.89	14.89	14.88	14.88	14.88
4		14.77	14.77	14.77	14.77	14.76	14.76	14.76	14.76	14.76	14.76

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HOPE CREEK GENERATING STATION

CONTAINMENT TEMPERATURE

SENSOR	LOCATION	SCAN 11 06:50	SCAN 12 07:05	SCAN 13 07:20	SCAN 14 07:35	SCAN 15 07:50	SCAN 16 08:05	SCAN 17 08:20	SCAN 18 08:35	SCAN 19 08:50	SCAN 20 09:05
1	EL 162 Az 45	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
2	El 162 Az 165	78.9	78.8	78.9	78.7	78.9	78.8	78.9	78.8	78.8	78.9
3	El 162 Az 285	78.8	78.7	78.9	78.7	78.8	78.9	78.9	78.8	78.8	78.8
4	El 122 Az 45	79.2	79.1	79.3	79.2	79.2	79.1	79.1	79.1	79.2	79.2
5	El 122 Az 135	78.7	78.8	78.8	78.8	78.8	78.7	78.8	78.8	78.8	78.7
6	El 122 Az 225	79.0	79.2	79.0	79.0	79.1	79.0	79.0	79.0	79.0	79.0
7	El 122 Az 315	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
8	El 100 Az 45	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
9	El 100 Az 135	75.8	75.8	75.8	75.8	75.8	75.7	75.6	75.5	75.4	75.3
10	El 100 Az 225	77.5	77.4	77.5	77.5	77.5	77.6	77.5	77.5	77.4	77.4
11	El 100 Az 315	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
12	Torus Az 45	72.6	72.7	72.6	72.7	72.6	72.7	72.6	72.6	72.5	72.6
13	Torus 105	72.2	72.1	72.1	72.0	72.0	72.1	72.1	72.2	72.1	72.2
14	Torus 165	71.7	71.7	71.6	71.8	71.7	71.7	71.8	71.8	71.8	71.8
15	Torus 225	71.9	71.9	71.9	71.9	71.9	72.0	71.8	71.9	71.9	71.9
16	Torus 285	72.4	72.4	72.4	72.5	72.4	72.4	72.3	72.4	72.3	72.3
17	Torus 345	72.5	72.5	72.6	72.5	72.6	72.5	72.5	72.4	72.4	72.5
18	Amb #1	70.3	70.3	70.3	70.3	70.4	70.3	70.2	70.3	70.3	70.3
19	Amb #2	70.9	71.0	71.1	71.0	70.9	70.9	71.0	70.9	71.0	70.9
20	Amb #3	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
21	Amb #4	74.1	74.1	74.1	74.2	74.1	74.2	74.2	74.2	74.2	74.2
22	Amb #5	73.4	73.4	73.5	73.4	73.4	73.6	73.5	73.0	73.0	73.0
23	Amb #6	39.4	39.3	39.5	39.9	39.8	40.5	40.5	41.1	40.9	42.1
24	Amb #7	75.4	75.1	74.7	74.7	74.7	74.7	76.5	76.9	77.2	77.1

DEW POINT TEMPERATURE

SENSOR	LOCATION	SCAN 11 06:50	SCAN 12 07:05	SCAN 13 07:20	SCAN 14 07:35	SCAN 15 07:50	SCAN 16 08:05	SCAN 17 08:20	SCAN 18 08:35	SCAN 19 08:50	SCAN 20 09:05
1	El 162 Az 45	68.8	68.8	68.7	68.7	68.8	69.0	68.7	68.8	68.8	68.3
2	El 100 Az 45	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
3	El 100 Az 165	76.2	76.2	76.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1
4	El 100 Az 285	69.1	69.2	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
5	Torus Az 45	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
6	Torus Az 225	69.8	69.7	69.8	69.9	69.8	69.8	69.8	69.8	69.8	69.8
7	Amb D.P.	22.1	21.9	22.1	20.9	22.0	22.1	22.1	22.2	21.7	19.8

PRESSURE psia

SENSOR	LOCATION	SCAN 11 06:50	SCAN 12 07:05	SCAN 13 07:20	SCAN 14 07:35	SCAN 15 07:50	SCAN 16 08:05	SCAN 17 08:20	SCAN 18 08:35	SCAN 19 08:50	SCAN 20 09:05
1		64.21	64.21	64.20	64.20	64.20	64.20	64.20	64.20	64.20	64.19
2		64.14	64.14	64.13	64.13	64.13	64.13	64.12	64.12	64.12	64.12
3		14.88	14.88	14.88	14.87	14.87	14.87	14.86	14.86	14.86	14.85
4		14.76	14.76	14.75	14.75	14.74	14.74	14.74	14.74	14.73	14.73

31 Dec 1985

HOPE CREEK GENERATING STATION

CONTAINMENT TEMPERATURE

SENSOR	LOCATION	SCAN 21 09:20	SCAN 22 09:35	SCAN 23 09:50	SCAN 24 10:05	SCAN 25 10:20	SCAN 26 10:35	SCAN 27 10:50	SCAN 28 11:05	SCAN 29 11:20	SCAN 30 11:35
1	EL 162 Az 45	79.7	79.8	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
2	EL 162 Az 165	78.8	78.8	78.9	78.9	78.9	78.8	78.9	78.9	78.9	78.8
3	EL 162 Az 285	78.8	78.8	78.8	78.8	78.8	78.9	78.8	78.8	78.8	72.7
4	EL 122 Az 45	79.2	79.1	79.2	79.1	79.1	79.3	79.1	79.2	79.2	79.1
5	EL 122 Az 135	78.7	78.7	78.8	78.8	78.7	78.7	78.7	78.7	78.7	78.7
6	EL 122 Az 225	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
7	EL 122 Az 315	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
8	EL 100 Az 45	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.7	77.8
9	EL 100 Az 135	75.3	75.3	75.3	74.8	73.8	73.8	73.8	73.7	73.7	73.7
10	EL 100 Az 225	77.5	77.5	77.4	77.5	77.4	77.5	77.5	77.4	77.5	77.5
11	EL 100 Az 315	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
12	Torus Az 45	72.5	72.5	72.5	72.5	72.6	72.5	72.5	72.4	72.5	72.5
13	Torus 105	72.1	71.9	72.1	72.1	72.0	72.0	72.0	72.0	72.0	72.0
14	Torus 165	71.7	71.7	71.6	71.6	71.7	71.6	71.6	71.6	71.6	71.5
15	Torus 225	71.8	71.8	71.9	71.9	71.9	71.8	71.8	71.8	71.9	71.9
16	Torus 285	72.3	72.3	72.2	72.3	72.1	72.3	72.2	72.3	72.2	72.3
17	Torus 345	72.5	72.4	72.4	72.3	72.4	72.4	72.3	72.4	72.3	72.4
18	Amb #1	70.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.2
19	Amb #2	70.9	70.7	70.8	70.8	70.7	70.8	70.8	70.8	70.8	70.7
20	Amb #3	71.8	71.8	71.8	71.8	71.8	71.8	71.7	71.8	71.7	71.8
21	Amb #4	74.2	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.3	74.3
22	Amb #5	73.0	73.2	73.4	73.6	73.6	73.6	73.7	73.6	73.8	73.7
23	Amb #6	41.7	42.4	43.8	44.1	44.9	45.3	46.5	47.3	48.4	48.3
24	Amb #7	77.0	77.9	76.2	75.9	75.8	75.7	75.8	75.8	75.8	76.1

DEW POINT TEMPERATURE

SENSOR	LOCATION	SCAN 21 09:20	SCAN 22 09:35	SCAN 23 09:50	SCAN 24 10:05	SCAN 25 10:20	SCAN 26 10:35	SCAN 27 10:50	SCAN 28 11:05	SCAN 29 11:20	SCAN 30 11:35
1	EL 162 Az 45	68.5	68.7	68.7	68.8	68.8	68.8	68.8	69.0	68.8	68.8
2	EL 100 Az 45	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
3	EL 100 Az 165	76.1	76.1	76.1	76.2	76.2	76.1	76.1	76.1	76.1	76.1
4	EL 100 Az 285	69.1	69.2	69.2	69.1	69.1	69.1	69.1	69.1	69.2	69.2
5	Torus Az 45	69.2	69.2	69.2	69.1	69.1	69.1	69.1	69.1	69.1	69.1
6	Torus Az 225	69.8	69.8	69.8	69.8	69.9	69.8	69.7	69.8	69.8	69.7
7	Amb D.P.	21.7	20.6	20.3	23.6	26.7	22.5	1.3	19.0	18.5	20.2

PRESSURE psia

SENSOR	LOCATION	SCAN 21 09:20	SCAN 22 09:35	SCAN 23 09:50	SCAN 24 10:05	SCAN 25 10:20	SCAN 26 10:35	SCAN 27 10:50	SCAN 28 11:05	SCAN 29 11:20	SCAN 30 11:35
1		64.19	64.19	64.19	64.18	64.18	64.18	64.18	64.18	64.17	64.17
2		64.12	64.12	64.12	64.11	64.11	64.11	64.11	64.10	64.10	64.10
3		14.85	14.85	14.85	14.85	14.85	14.84	14.84	14.83	14.82	14.82
4		14.73	14.73	14.73	14.73	14.72	14.72	14.72	14.71	14.70	14.70

31 Dec 1985

HOPE CREEK GENERATING STATION

CONTAINMENT TEMPERATURE

SENSOR	LOCATION	SCAN 31 11:50	SCAN 32 12:05	SCAN 33 12:20	SCAN 34 12:35	SCAN 35 12:50	SCAN 36 13:05	SCAN 37 13:20	SCAN 38 13:35	SCAN 39 13:50	SCAN 40 14:05
1	EL 162 Az 45	79.7	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.6	79.7
2	El 162 Az 165	78.8	78.8	78.9	78.9	78.8	78.8	78.8	78.8	78.9	78.9
3	El 162 Az 285	78.8	78.9	78.8	78.8	78.8	78.8	78.8	78.7	78.8	78.8
4	El 122 Az 45	79.2	79.2	79.3	79.2	79.2	79.2	79.2	79.2	79.2	79.2
5	El 122 Az 135	78.7	78.7	78.7	78.7	78.7	78.6	78.6	78.7	78.7	78.6
6	El 122 Az 225	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
7	El 122 Az 315	79.2	79.1	79.2	79.2	79.2	79.2	79.2	79.1	79.2	79.2
8	El 100 Az 45	77.8	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
9	El 100 Az 135	73.7	73.7	73.7	73.7	73.7	73.6	73.6	73.7	73.7	73.7
10	El 100 Az 225	77.5	77.5	77.5	77.4	77.6	77.5	77.5	77.4	77.5	77.5
11	El 100 Az 315	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.4
12	Torus Az 45	72.4	72.4	72.5	72.5	72.4	72.5	72.4	72.3	72.3	72.4
13	Torus 105	71.9	72.1	72.0	71.9	72.0	72.0	71.9	72.0	71.9	71.9
14	Torus 165	71.6	71.5	71.6	71.5	71.6	71.6	71.6	71.6	71.6	71.6
15	Torus 225	71.8	71.9	71.9	71.8	71.8	71.8	71.8	71.8	71.8	71.8
16	Torus 285	72.1	72.2	72.2	72.3	72.2	72.2	72.2	72.1	72.1	72.1
17	Torus 345	72.3	72.2	72.2	72.3	72.2	72.1	72.2	72.1	72.2	72.1
18	Amb #1	70.1	70.3	70.3	70.3	70.1	70.1	70.2	70.1	70.1	70.1
19	Amb #2	70.7	70.6	70.6	70.4	70.7	70.8	70.8	70.8	70.8	70.8
20	Amb #3	71.8	72.0	71.9	71.9	71.8	71.8	71.8	71.8	71.8	71.8
21	Amb #4	74.3	73.9	73.9	73.9	74.4	74.4	74.4	74.4	74.4	74.4
22	Amb #5	73.3	71.5	71.3	71.3	74.1	73.9	74.0	73.9	74.0	74.1
23	Amb #6	48.3	49.2	49.7	50.2	49.8	49.3	49.3	48.8	48.7	48.2
24	Amb #7	75.9	75.8	79.0	80.0	80.0	77.7	77.7	77.9	76.5	75.8

DEW POINT TEMPERATURE

SENSOR	LOCATION	SCAN 31 11:50	SCAN 32 12:05	SCAN 33 12:20	SCAN 34 12:35	SCAN 35 12:50	SCAN 36 13:05	SCAN 37 13:20	SCAN 38 13:35	SCAN 39 13:50	SCAN 40 14:05
1	El 162 Az 45	68.7	68.7	68.8	68.8	68.7	68.8	68.8	68.9	68.9	68.8
2	El 100 Az 45	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
3	El 100 Az 165	76.1	76.1	76.1	76.1	76.1	76.2	76.1	76.1	76.1	76.1
4	El 100 Az 285	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.1	69.3	69.3
5	Torus Az 45	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
6	Torus Az 225	69.7	69.7	69.7	69.6	69.7	69.7	69.7	69.7	69.7	69.7
7	Amb D.P.	20.3	18.7	20.9	20.8	21.5	18.9	19.6	21.0	20.6	20.6

PRESSURE psia

SENSOR	LOCATION	SCAN 31 11:50	SCAN 32 12:05	SCAN 33 12:20	SCAN 34 12:35	SCAN 35 12:50	SCAN 36 13:05	SCAN 37 13:20	SCAN 38 13:35	SCAN 39 13:50	SCAN 40 14:05
1		64.17	64.17	64.17	64.16	64.16	64.16	64.16	64.16	64.16	64.15
2		64.10	64.10	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.08
3		14.82	14.83	14.83	14.83	14.77	14.77	14.77	14.77	14.77	14.77
4		14.69	14.69	14.69	14.68	14.68	14.68	14.67	14.67	14.67	14.67

1 Jan 1986

HOPE CREEK GENERATING STATION

CONTAINMENT TEMPERATURE

SENSOR	LOCATION	SCAN 81	SCAN 82	SCAN 83	SCAN 84	SCAN 85	SCAN 86	SCAN 87	SCAN 88	SCAN 89	SCAN 90
		00:20	00:35	00:50	01:05	01:20	01:35	01:50	02:05	02:20	02:35
1	EL 162 Az 45	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2	EL 162 Az 165	78.8	78.9	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
3	EL 162 Az 285	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
4	EL 122 Az 45	79.1	79.2	79.2	79.2	79.1	79.2	79.3	79.2	79.2	79.3
5	EL 122 Az 135	78.6	78.6	78.6	78.5	78.6	78.6	78.6	78.6	78.6	78.6
6	EL 122 Az 225	78.9	79.0	79.0	78.9	78.9	78.9	79.0	79.0	79.0	79.0
7	EL 122 Az 315	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
8	EL 100 Az 45	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
9	EL 100 Az 135	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
10	EL 100 Az 225	77.5	77.6	77.6	77.6	77.5	77.6	77.5	77.6	77.6	77.6
11	EL 100 Az 315	78.4	78.4	78.4	78.3	78.3	78.3	78.3	78.4	78.4	78.4
12	Torus Az 45	72.3	72.3	72.4	72.3	72.4	72.4	72.3	72.2	72.4	72.5
13	Torus 105	72.0	71.8	71.8	71.8	71.9	71.8	71.9	71.9	71.8	71.8
14	Torus 165	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.5	71.4	71.4
15	Torus 225	71.8	71.7	71.8	71.7	71.7	71.7	71.8	71.8	71.7	71.7
16	Torus 285	71.9	72.0	72.0	72.0	71.9	72.1	71.9	72.1	72.0	71.9
17	Torus 345	72.2	72.2	72.1	72.1	72.2	72.0	72.2	72.0	72.0	72.2
18	Amb #1	70.2	70.2	70.1	70.2	70.2	70.3	70.3	70.2	70.2	70.2
19	Amb #2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
20	Amb #3	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0	71.9
21	Amb #4	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.2
22	Amb #5	74.1	74.1	74.2	74.1	74.1	74.0	74.1	74.2	74.1	74.1
23	Amb #6	45.6	45.3	45.2	45.2	45.8	45.6	45.5	45.7	45.5	45.0
24	Amb #7	77.7	77.4	77.5	77.8	77.4	77.8	77.4	77.1	77.5	77.8

DEW POINT TEMPERATURE

SENSOR	LOCATION	SCAN 81	SCAN 82	SCAN 83	SCAN 84	SCAN 85	SCAN 86	SCAN 87	SCAN 88	SCAN 89	SCAN 90
		00:20	00:35	00:50	01:05	01:20	01:35	01:50	02:05	02:20	02:35
1	EL 162 Az 45	68.9	69.0	69.1	69.4	69.0	69.0	68.9	69.1	69.0	69.0
2	EL 100 Az 45	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
3	EL 100 Az 165	76.2	76.2	76.1	76.2	76.1	76.2	76.1	76.2	76.2	76.2
4	EL 100 Az 285	69.4	69.3	69.4	69.4	69.4	69.3	69.4	69.4	69.5	69.4
5	Torus Az 45	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
6	Torus Az 225	69.5	69.6	69.5	69.7	69.6	69.5	69.6	69.5	69.5	69.7
7	Amb D.P.	37.3	37.2	37.2	37.4	37.4	37.3	37.2	37.3	37.3	37.2

PRESSURE psia

SENSOR	LOCATION	SCAN 81	SCAN 82	SCAN 83	SCAN 84	SCAN 85	SCAN 86	SCAN 87	SCAN 88	SCAN 89	SCAN 90
		00:20	00:35	00:50	01:05	01:20	01:35	01:50	02:05	02:20	02:35
1		64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.08	64.08	64.08
2		64.02	64.02	64.02	64.02	64.02	64.02	64.02	64.02	64.01	64.01
3		14.78	14.78	14.78	14.79	14.79	14.79	14.79	14.79	14.79	14.79
4		14.67	14.67	14.66	14.66	14.66	14.66	14.67	14.67	14.67	14.67

1 Jan 1986

HOPE CREEK GENERATING STATION

CONTAINMENT TEMPERATURE

SENSOR	LOCATION	SCAN 91 02:50	SCAN 92 03:05	SCAN 93 03:20	SCAN 94 03:35	SCAN 95 03:50	SCAN 96 04:05	SCAN 97 04:20	SCAN 98 04:35	SCAN 99	SCAN100
1	EL 162 Az 45	79.6	79.6	79.6	79.6	79.5	79.6	79.6	79.6	0.0	0.0
2	El 162 Az 165	78.8	78.8	78.8	78.8	78.8	78.8	78.9	78.8	0.0	0.0
3	El 162 Az 285	78.6	78.7	78.7	78.8	78.7	78.8	78.7	78.8	0.0	0.0
4	El 122 Az 45	79.2	79.4	79.3	79.3	79.3	79.3	79.3	79.3	0.0	0.0
5	El 122 Az 165	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.7	0.0	0.0
6	El 122 Az 225	79.0	79.0	78.9	78.9	79.0	79.0	79.0	79.0	0.0	0.0
7	El 122 Az 315	79.1	79.1	79.1	79.1	79.2	79.2	79.1	79.1	0.0	0.0
8	El 100 Az 45	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	0.0	0.0
9	El 100 Az 135	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	0.0	0.0
10	El 100 Az 225	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	0.0	0.0
11	El 100 Az 315	78.4	78.4	78.3	78.4	78.4	78.4	78.3	78.3	0.0	0.0
12	Torus Az 45	72.4	72.4	72.3	72.3	72.3	72.4	72.3	72.4	0.0	0.0
13	Torus 105	71.8	71.9	71.8	71.8	71.9	71.8	71.8	71.8	0.0	0.0
14	Torus 165	71.4	71.4	71.5	71.4	71.4	71.4	71.4	71.5	0.0	0.0
15	Torus 225	71.8	71.8	71.7	71.7	71.8	71.7	71.7	71.7	0.0	0.0
16	Torus 285	72.0	71.9	71.8	71.9	72.0	72.1	72.1	72.1	0.0	0.0
17	Torus 345	72.1	72.0	72.2	72.0	72.2	72.0	72.2	72.2	0.0	0.0
18	Amb #1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	0.0	0.0
19	Amb #2	70.9	70.9	70.9	71.0	70.9	70.9	70.9	70.9	0.0	0.0
20	Amb #3	71.9	72.0	71.9	71.9	71.9	71.9	71.9	71.9	0.0	0.0
21	Amb #4	74.3	74.3	74.3	74.3	74.3	74.2	74.2	74.2	0.0	0.0
22	Amb #5	74.2	74.2	74.2	74.2	74.0	74.1	74.1	74.2	0.0	0.0
23	Amb #6	44.3	44.3	44.2	43.5	43.2	43.1	43.0	43.7	0.0	0.0
24	Amb #7	77.6	77.7	77.4	76.8	76.1	75.6	76.1	75.6	0.0	0.0

DEW POINT TEMPERATURE

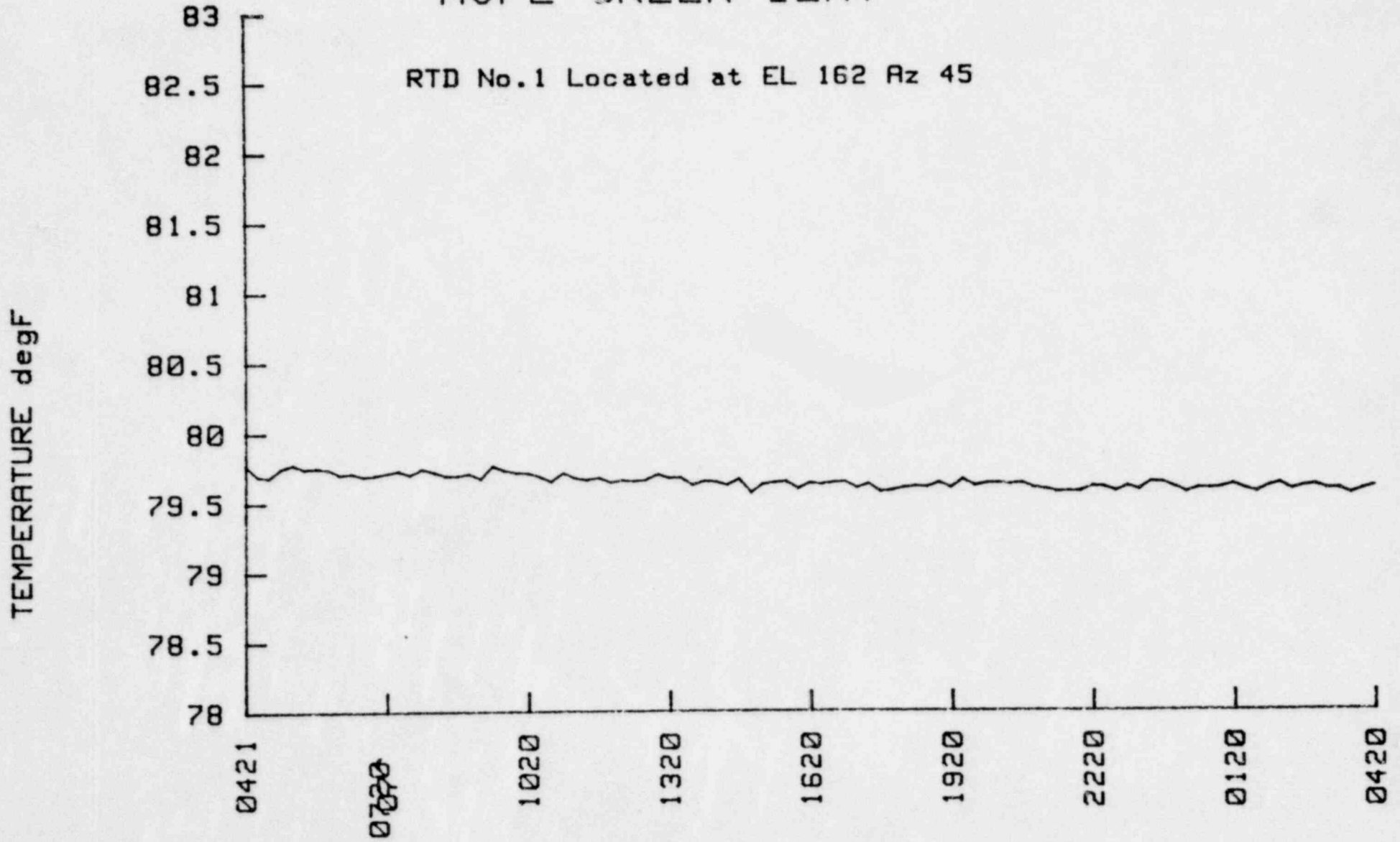
SENSOR	LOCATION	SCAN 91 02:50	SCAN 92 03:05	SCAN 93 03:20	SCAN 94 03:35	SCAN 95 03:50	SCAN 96 04:05	SCAN 97 04:20	SCAN 98 04:35	SCAN 99	SCAN100
1	El 162 Az 45	69.1	69.0	69.0	69.0	69.0	69.1	69.0	69.0	0.0	0.0
2	El 100 Az 45	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	0.0	0.0
3	El 100 Az 165	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	0.0	0.0
4	El 100 Az 285	69.4	69.5	69.4	69.4	69.5	69.4	69.4	69.4	0.0	0.0
5	Torus Az 45	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	0.0	0.0
6	Torus Az 225	69.5	69.6	69.4	69.5	69.6	69.5	69.5	69.5	0.0	0.0
7	Amb D.P.	37.3	36.9	36.3	35.9	35.7	35.3	35.2	35.0	0.0	0.0

PRESSURE psia

SENSOR	LOCATION	SCAN 91 02:50	SCAN 92 03:05	SCAN 93 03:20	SCAN 94 03:35	SCAN 95 03:50	SCAN 96 04:05	SCAN 97 04:20	SCAN 98 04:35	SCAN 99	SCAN100
1		64.08	64.08	64.08	64.07	64.07	64.07	64.07	64.07	0.00	0.00
2		64.01	64.01	64.01	64.01	64.01	64.00	64.00	64.00	0.00	0.00
3		14.79	14.80	14.80	14.80	14.80	14.81	14.81	14.81	0.00	0.00
4		14.67	14.67	14.67	14.67	14.67	14.68	14.68	14.68	0.00	0.00

HOPE CREEK ILRT

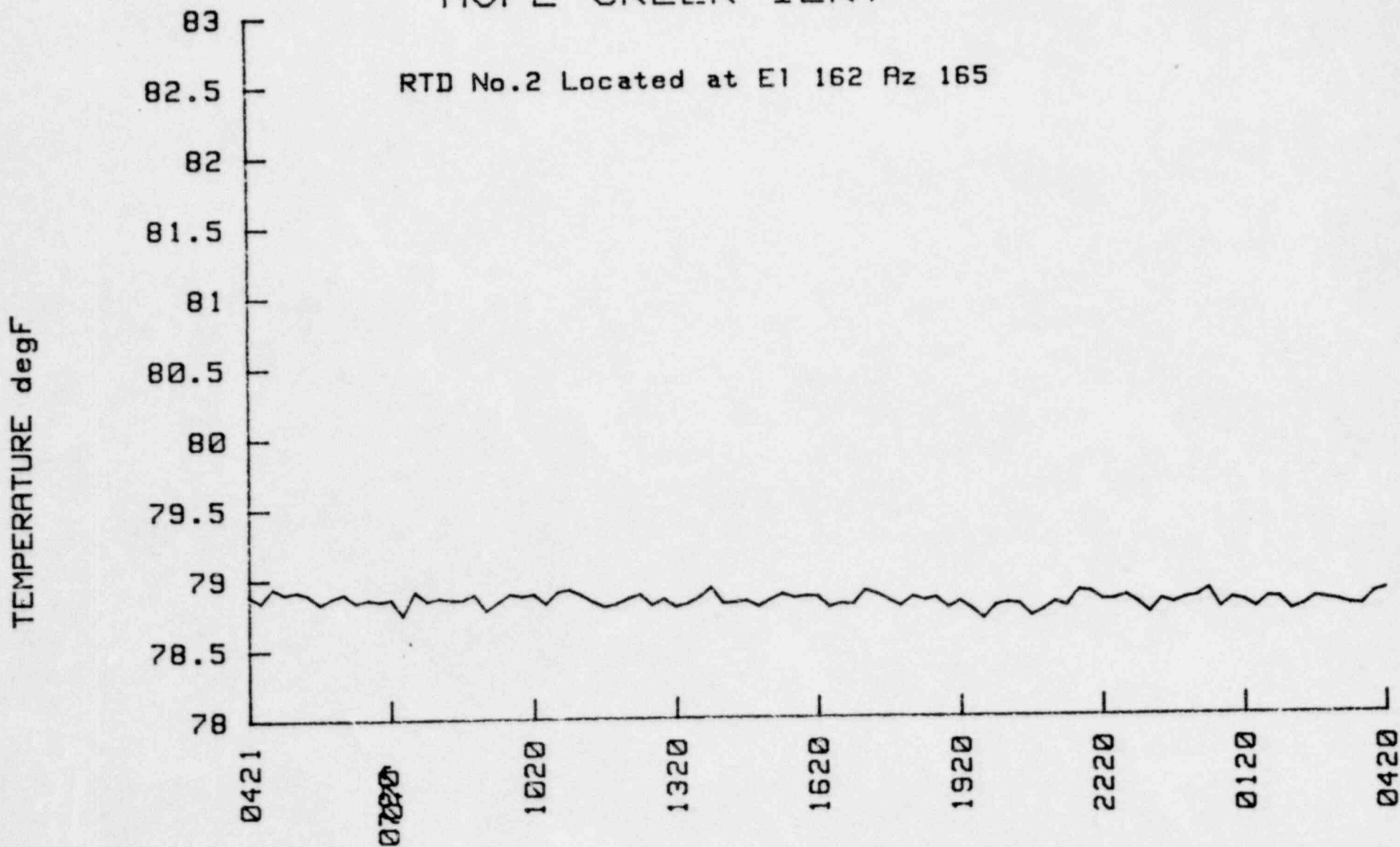
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TIME hour 31 Dec 1985

HOPE CREEK ILRT

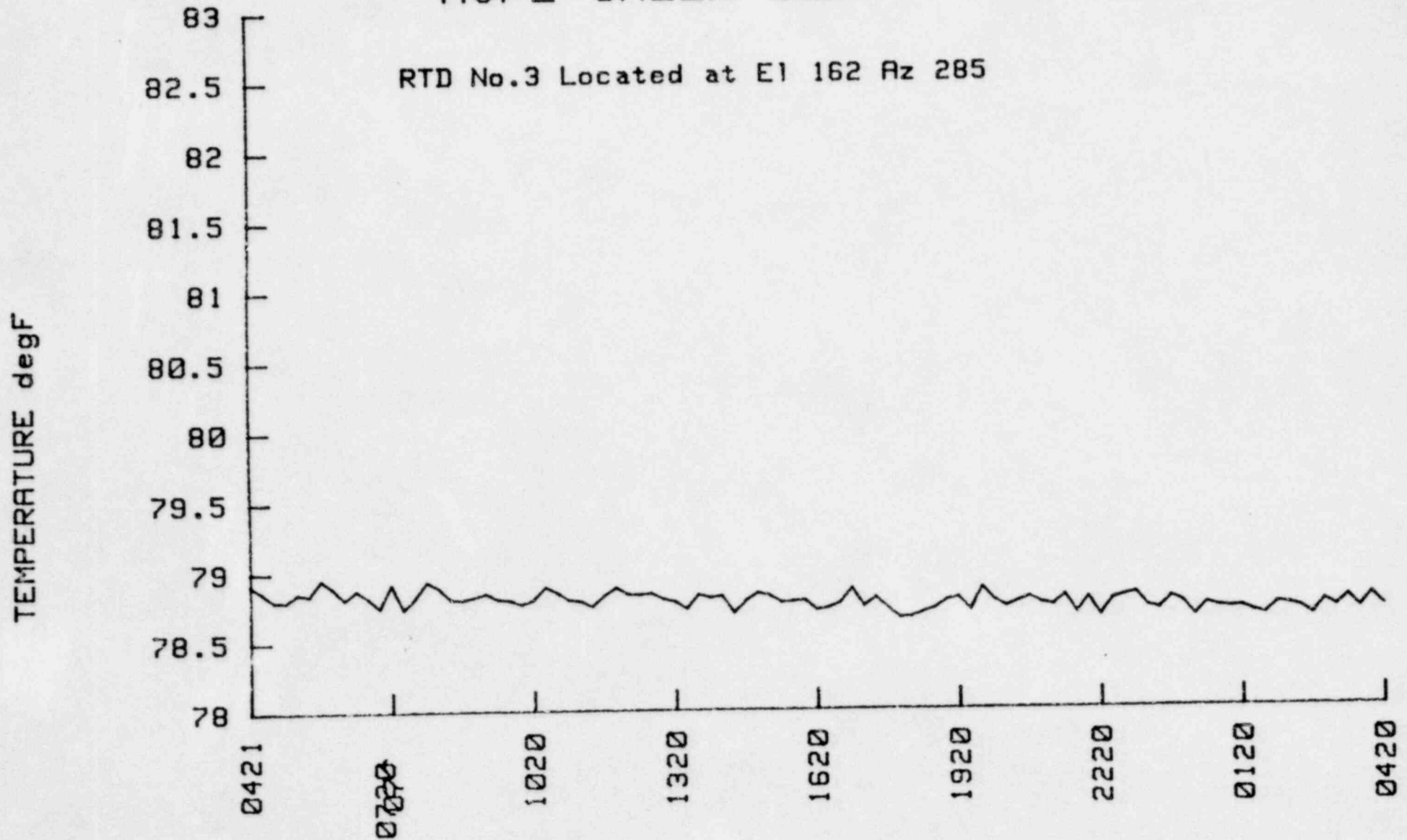
RTD No.2 Located at E1 162 Az 165



TIME hour 31 Dec 1985

HOPE CREEK ILRT

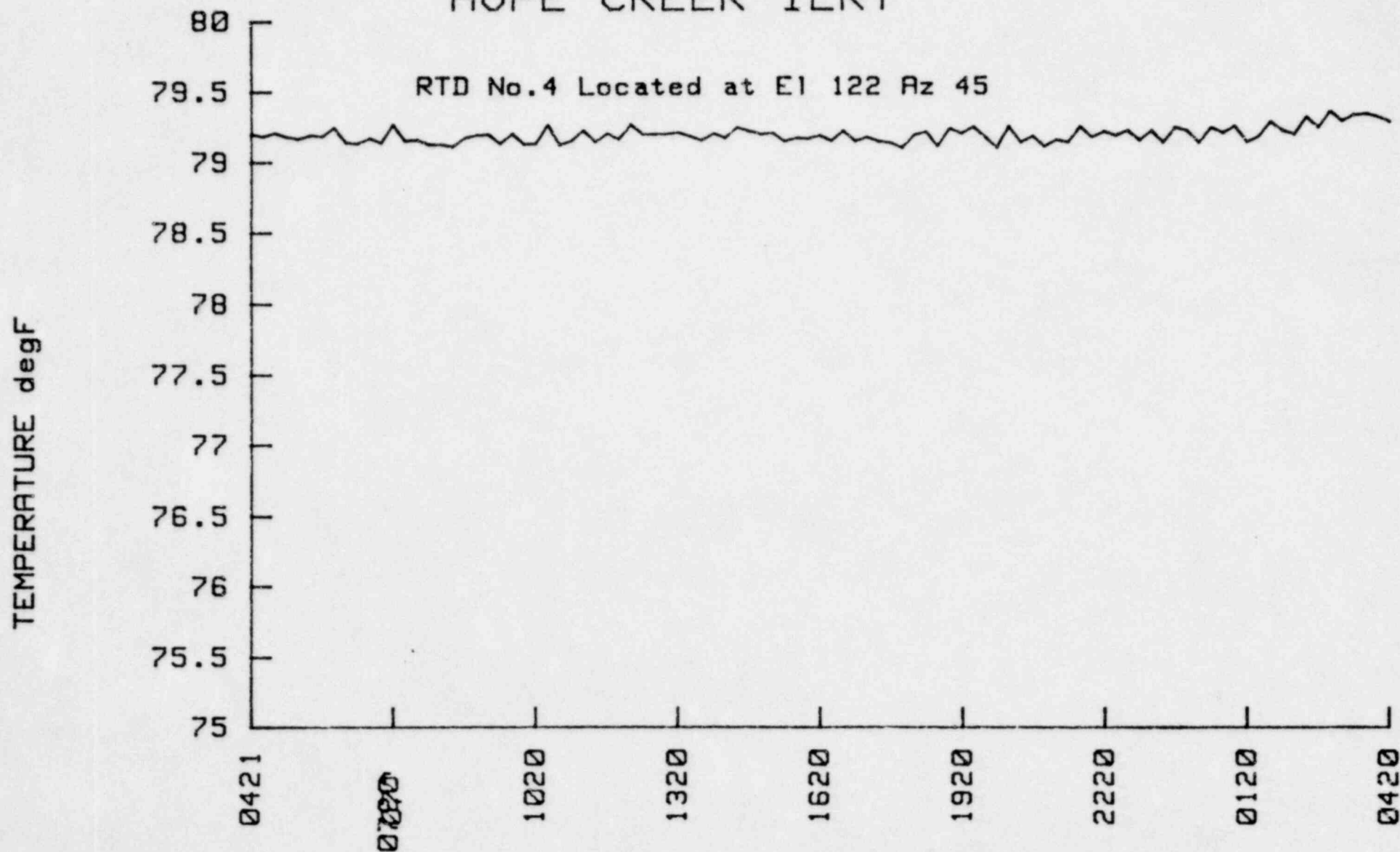
RTD No.3 Located at E1 162 Rz 285



TIME hour 31 Dec 1985

HOPE CREEK ILRT

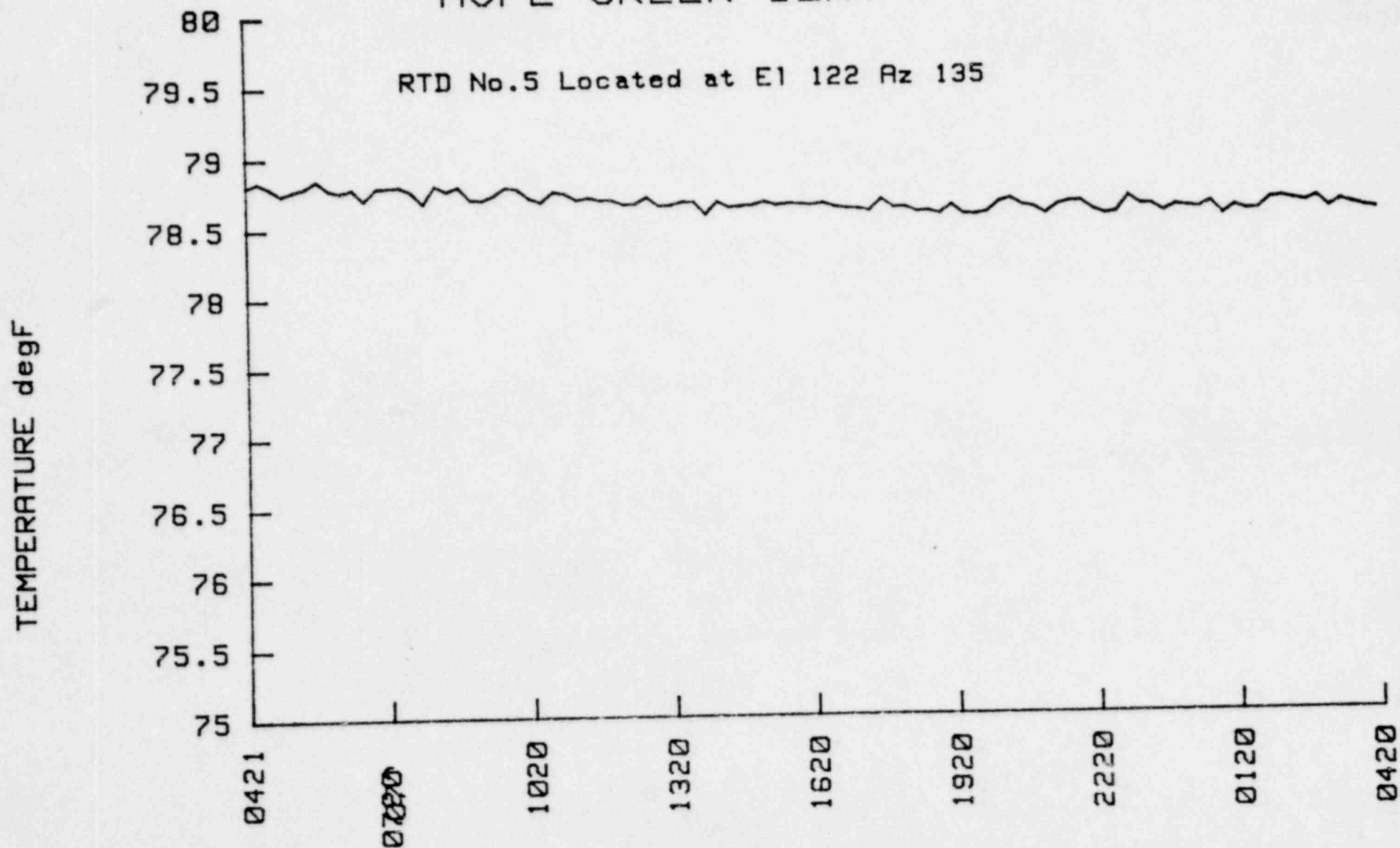
RTD No.4 Located at E1 122 Az 45



TIME hour 31 Dec 1985

HOPE CREEK ILRT

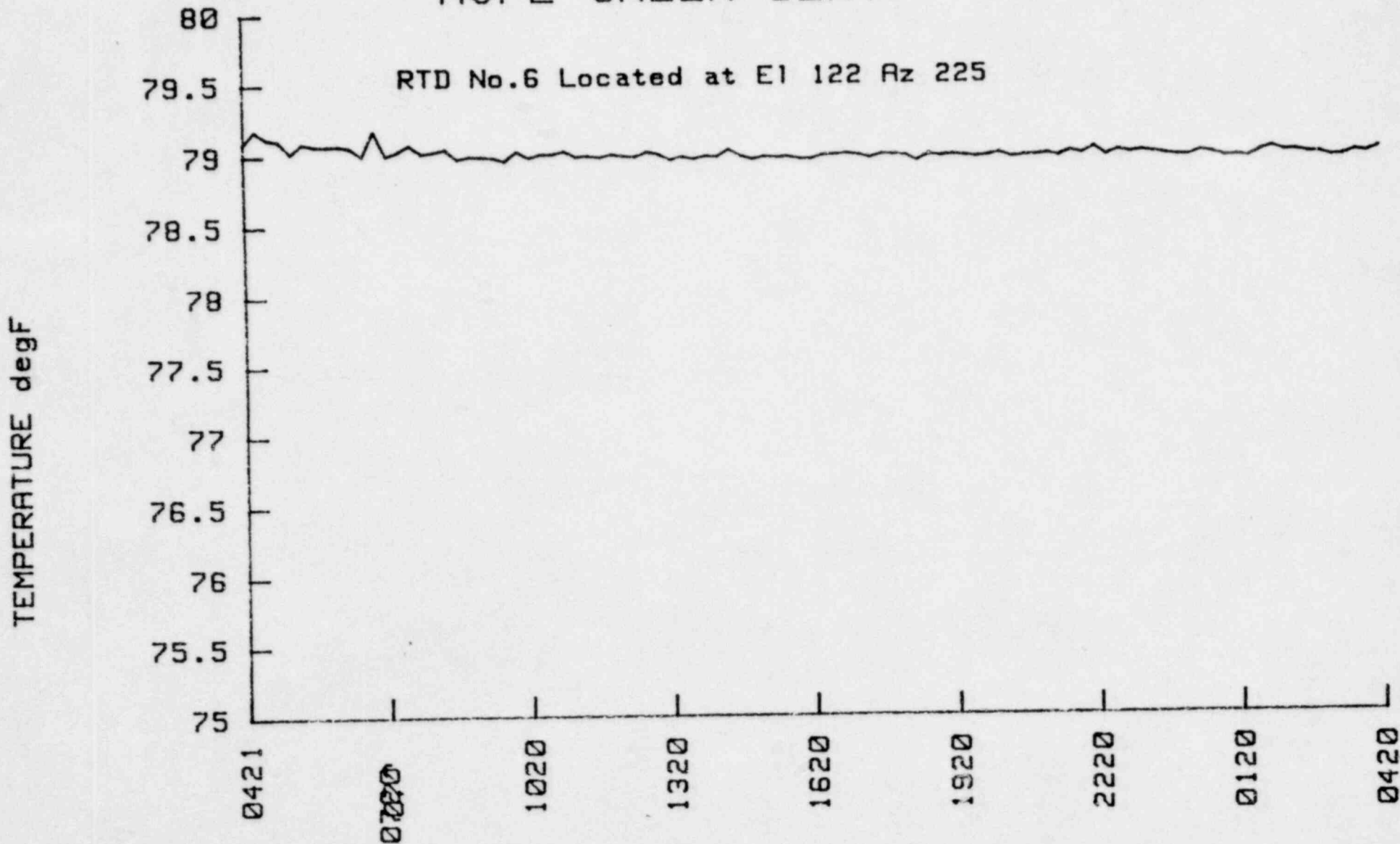
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TIME hour 31 Dec 1985

HOPE CREEK ILRT

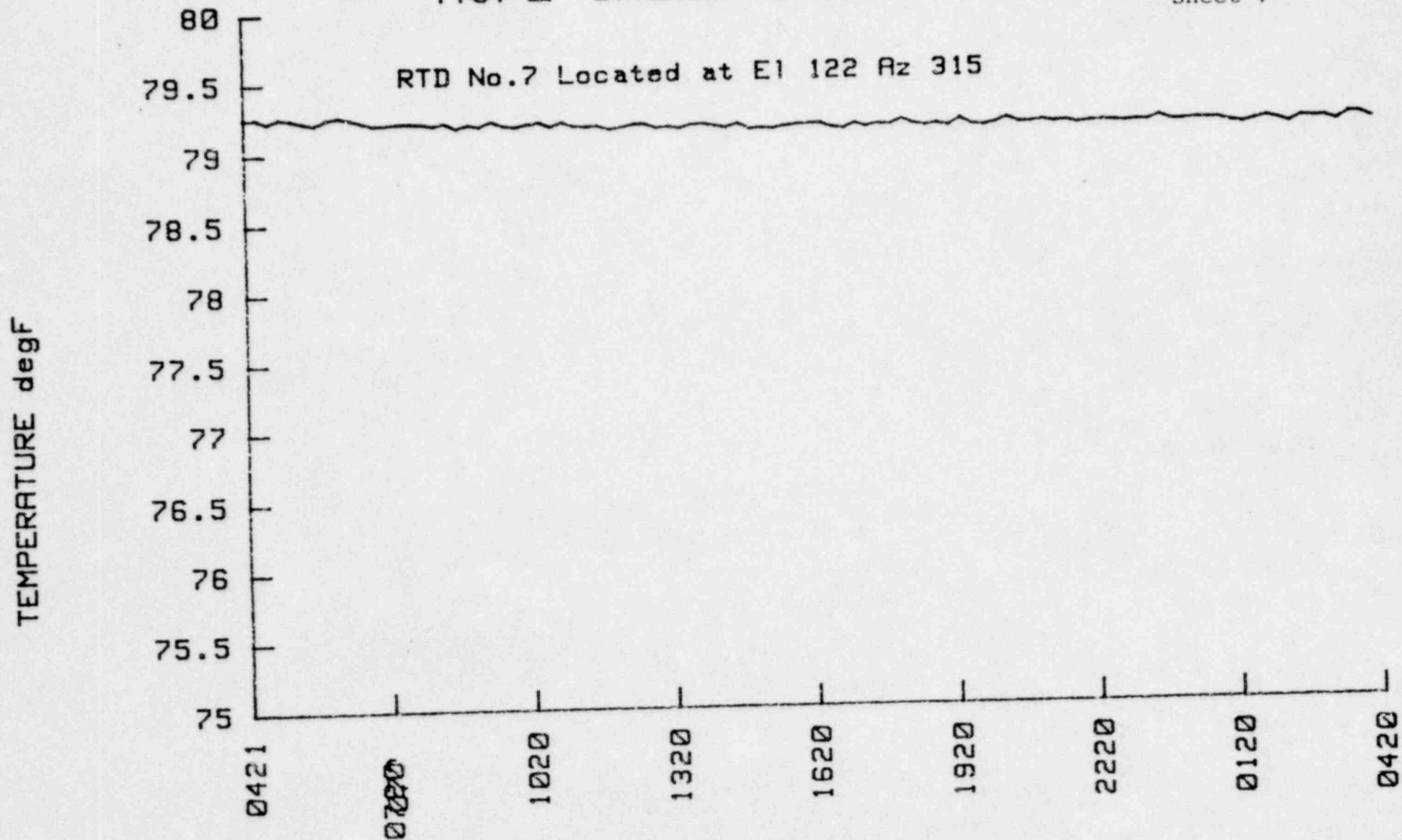
RTD No.6 Located at El 122 Az 225



TIME hour 31 Dec 1985

HOPE CREEK ILRT

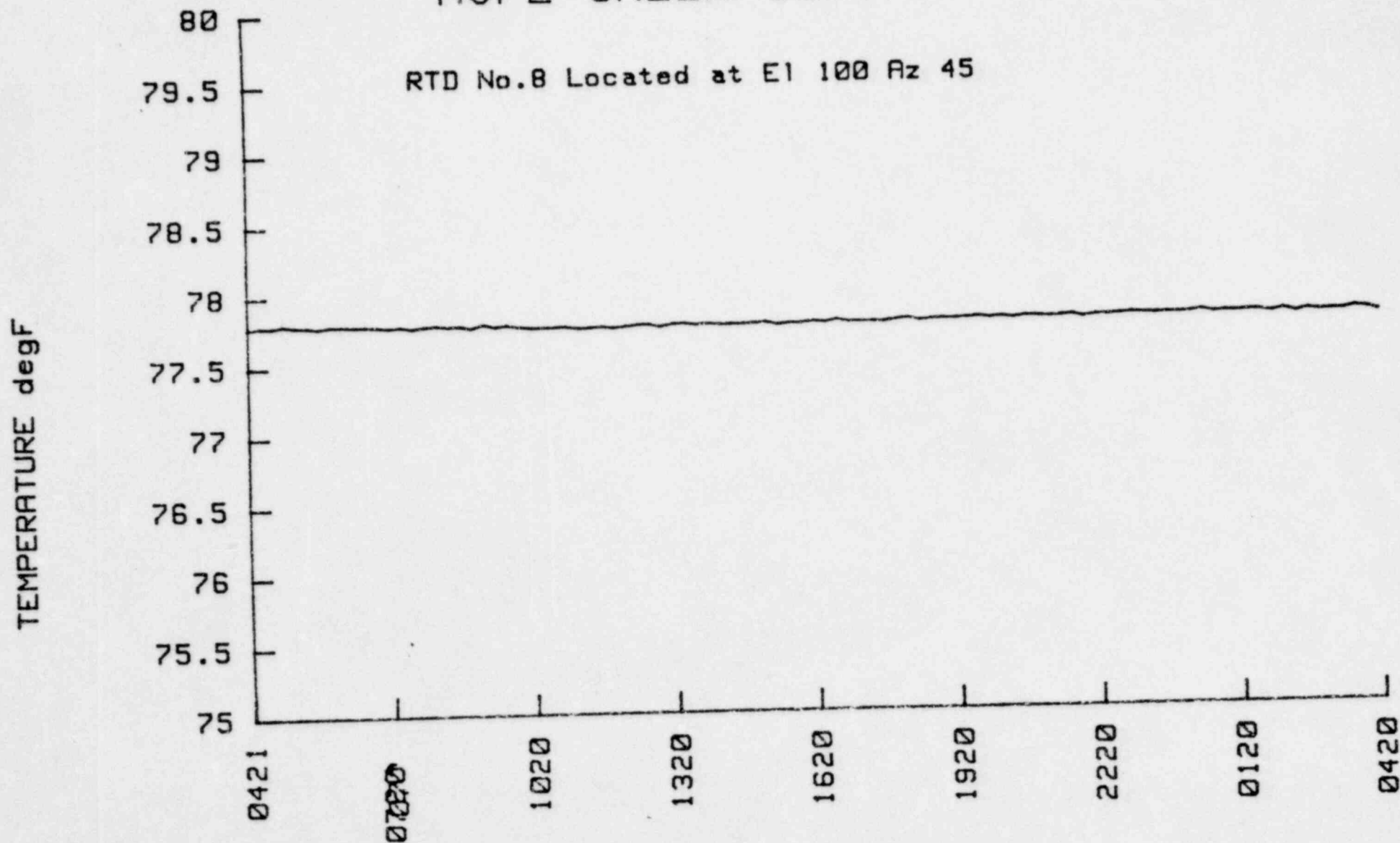
Appendix E
Sheet 7



TIME hour 31 Dec 1985

HOPE CREEK ILRT

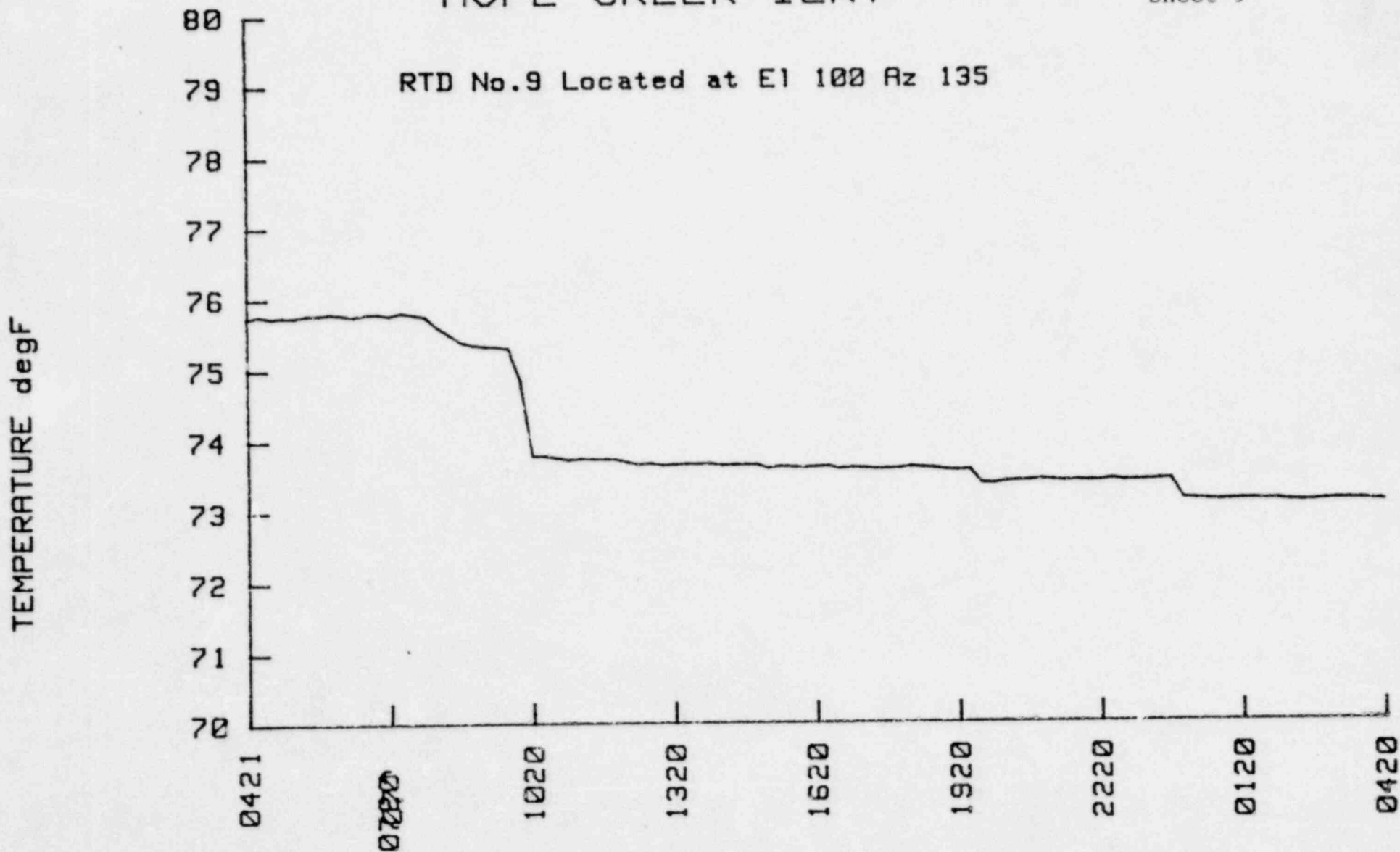
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TIME hour 31 Dec 1985

HOPE CREEK ILRT

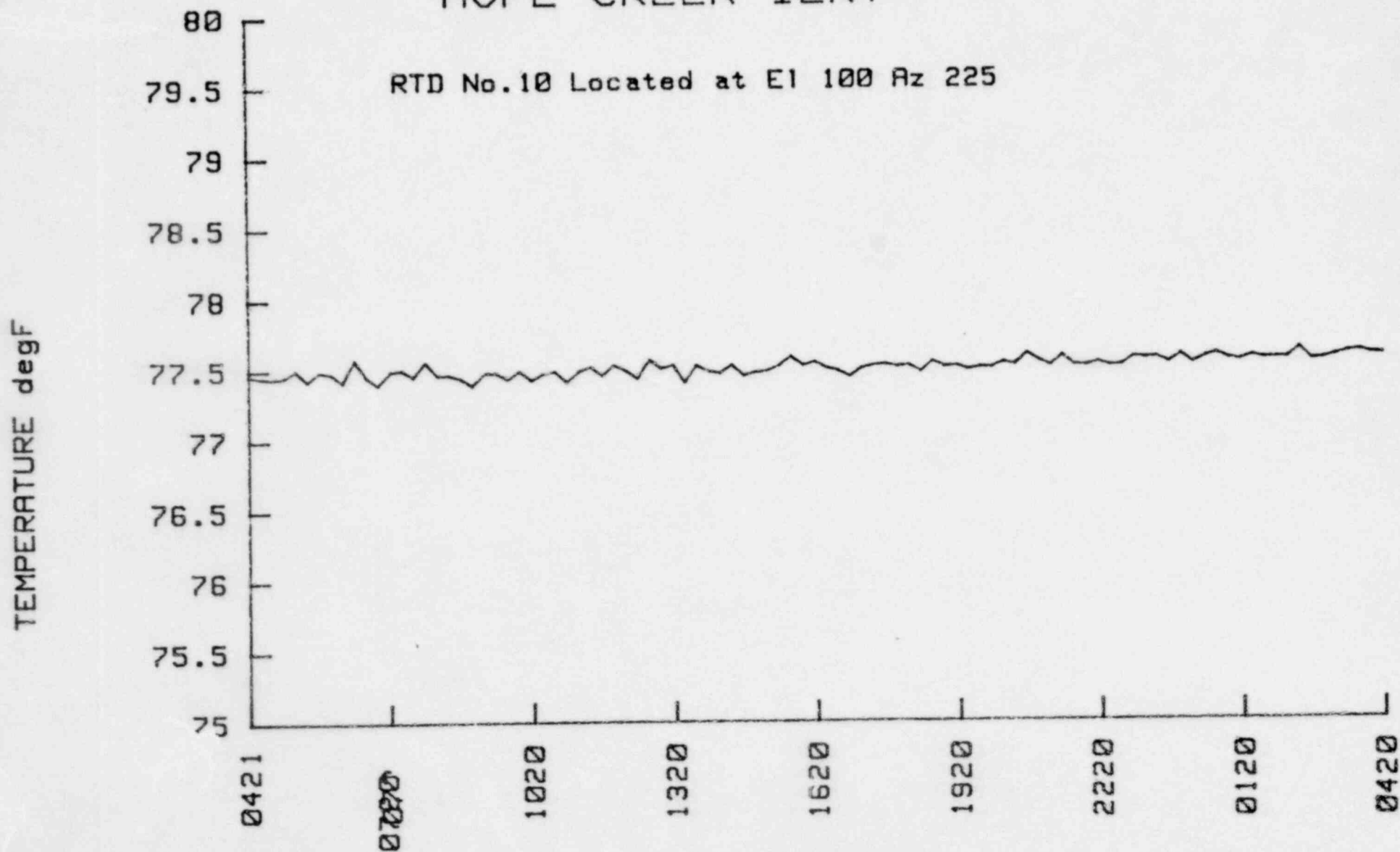
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TIME hour 31 Dec 1985

HOPE CREEK ILRT

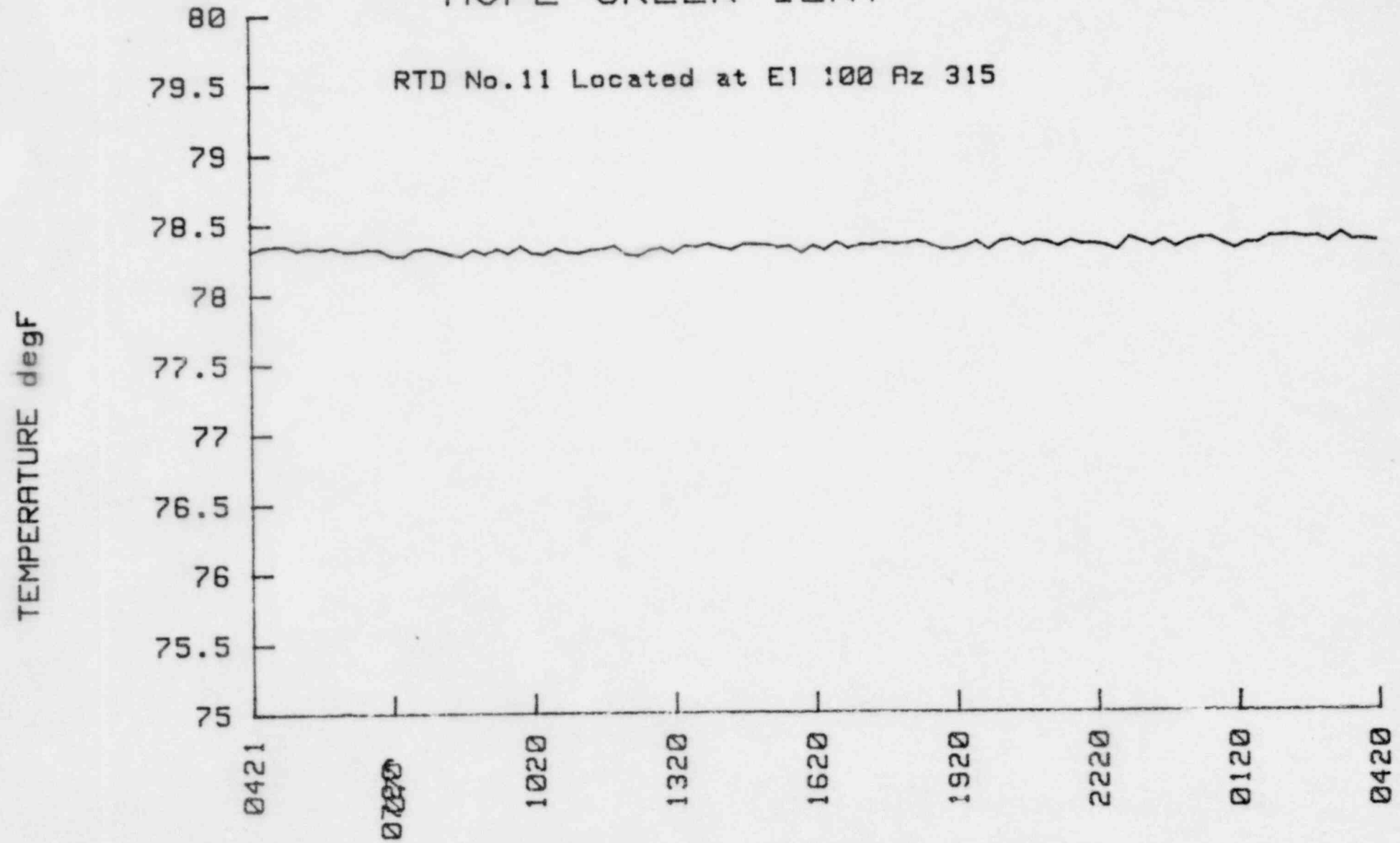
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TIME hour 31 Dec 1985

HOPE CREEK ILRT

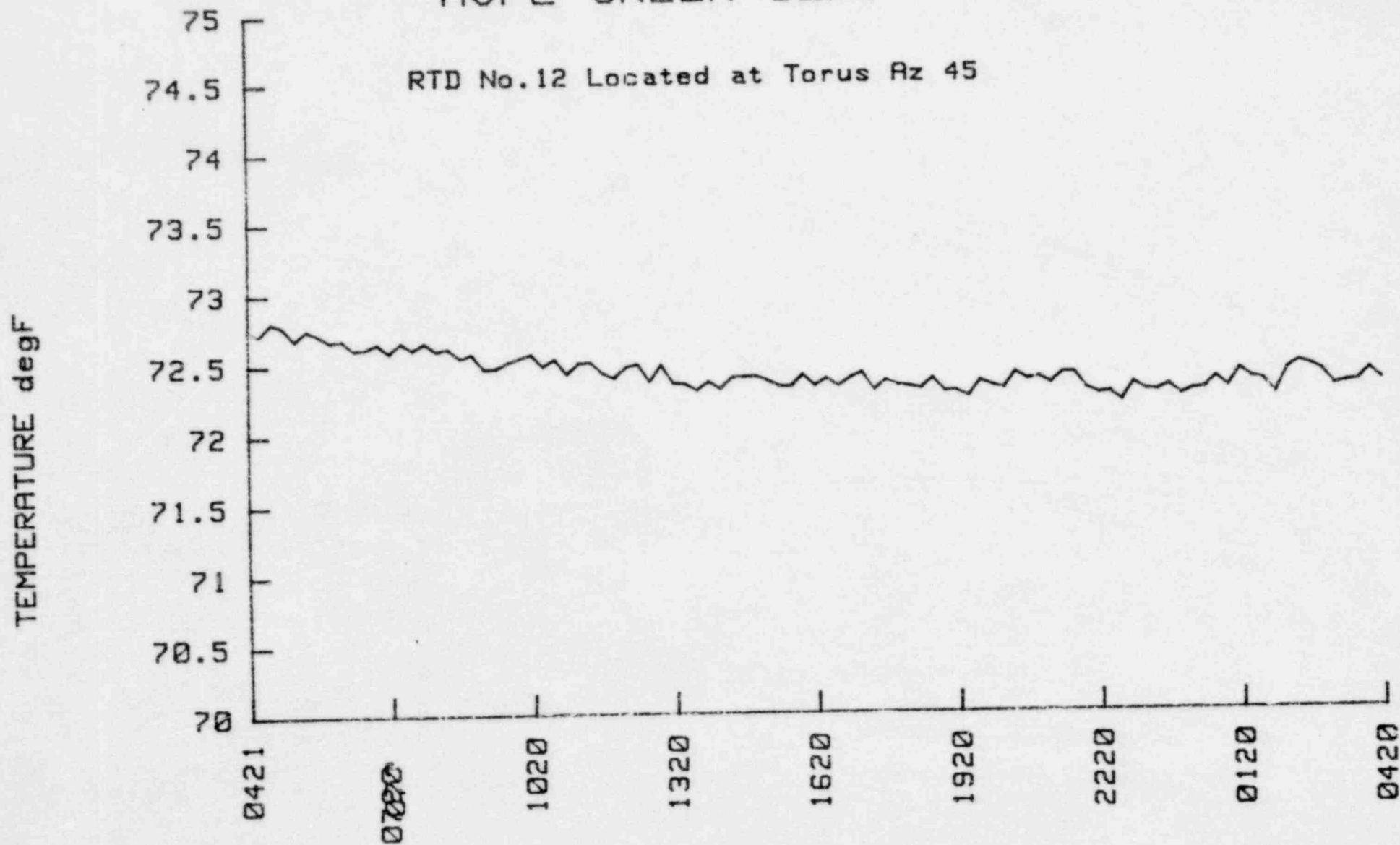
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TIME hour 31 Dec 1985

HOPE CREEK ILRT

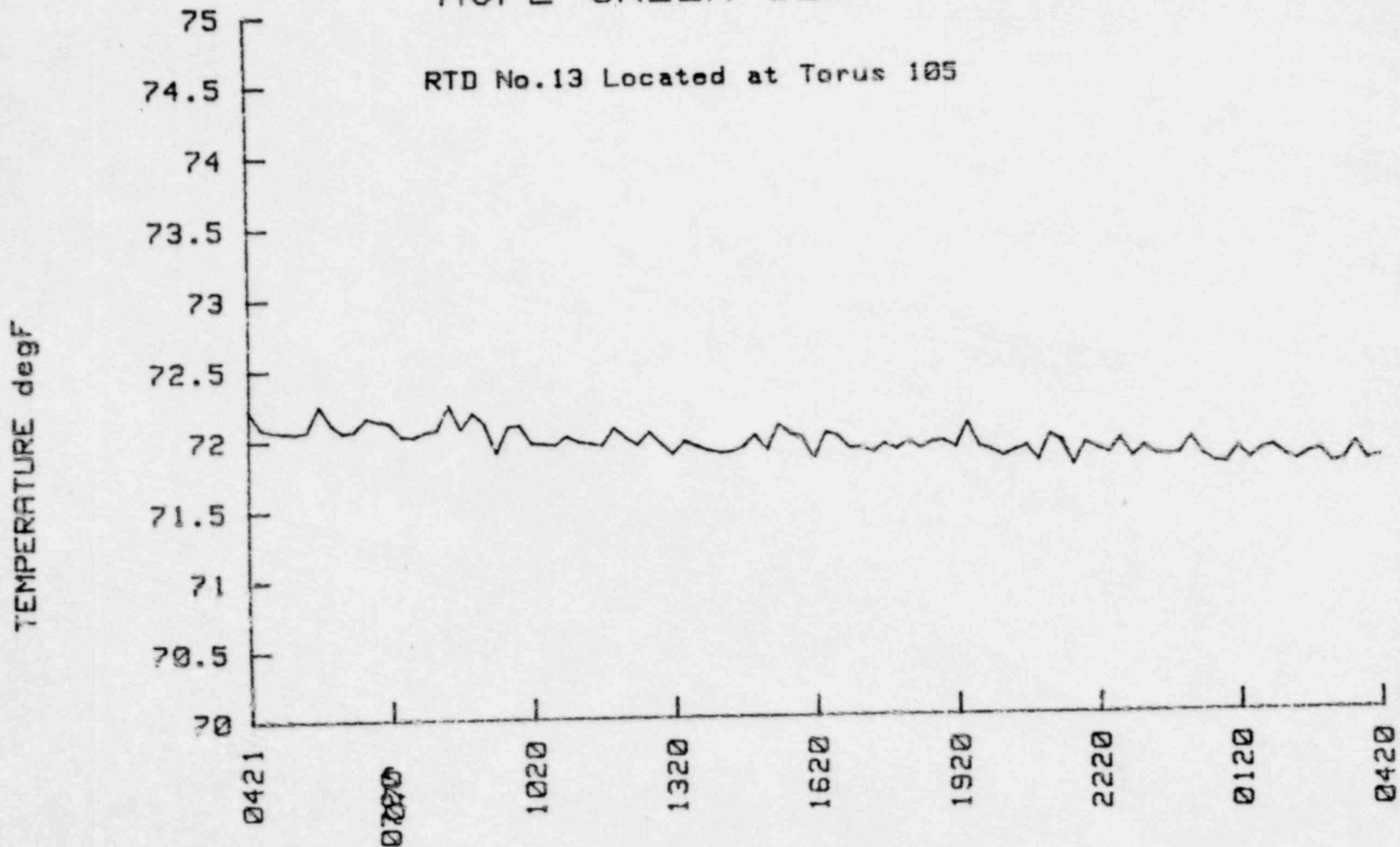
RTD No.12 Located at Torus Az 45



TIME hour 31 Dec 1985

HOPE CREEK ILRT

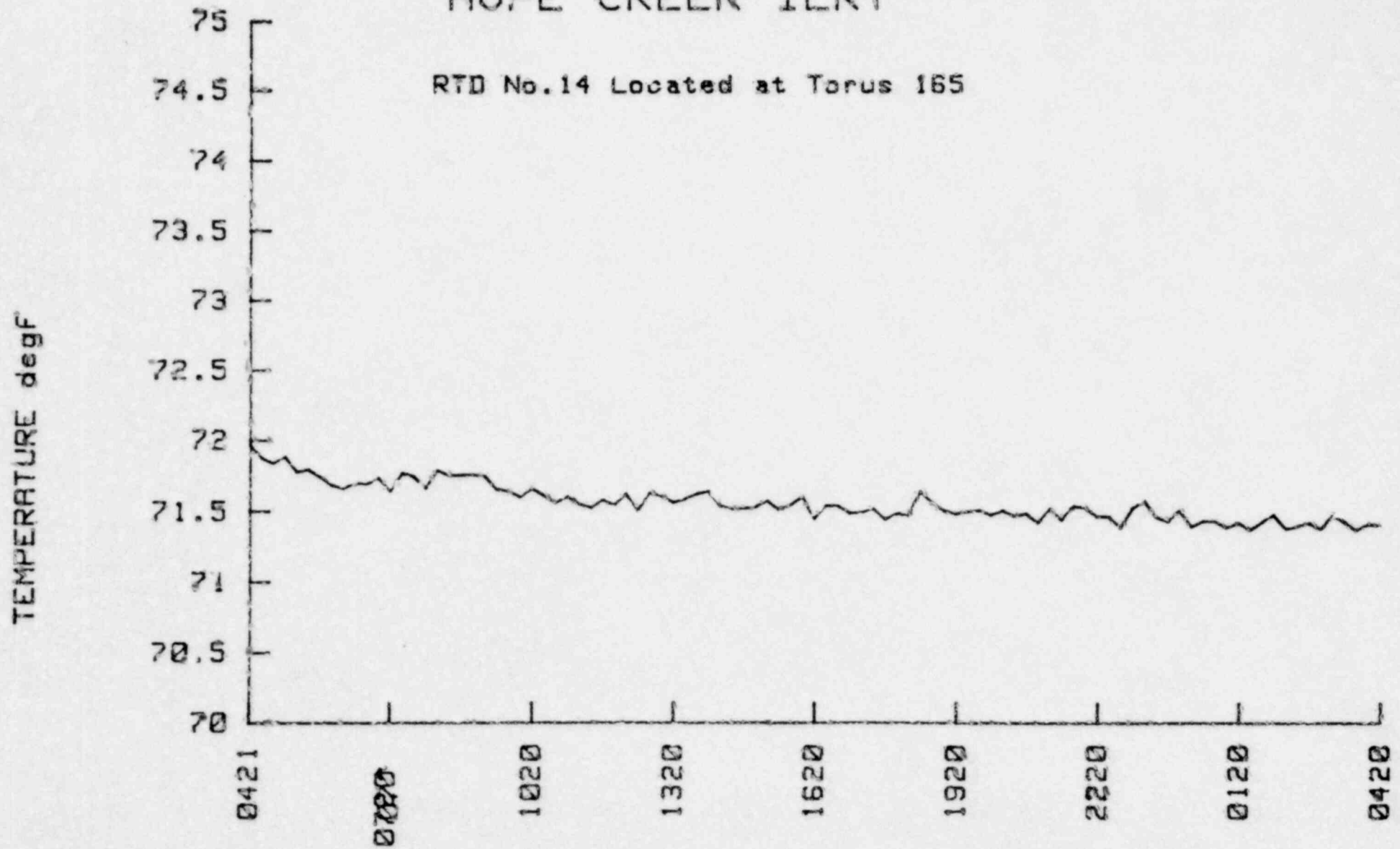
RTD No.13 Located at Torus 105



TIME hour 31 Dec 1985

HOPE CREEK ILRT

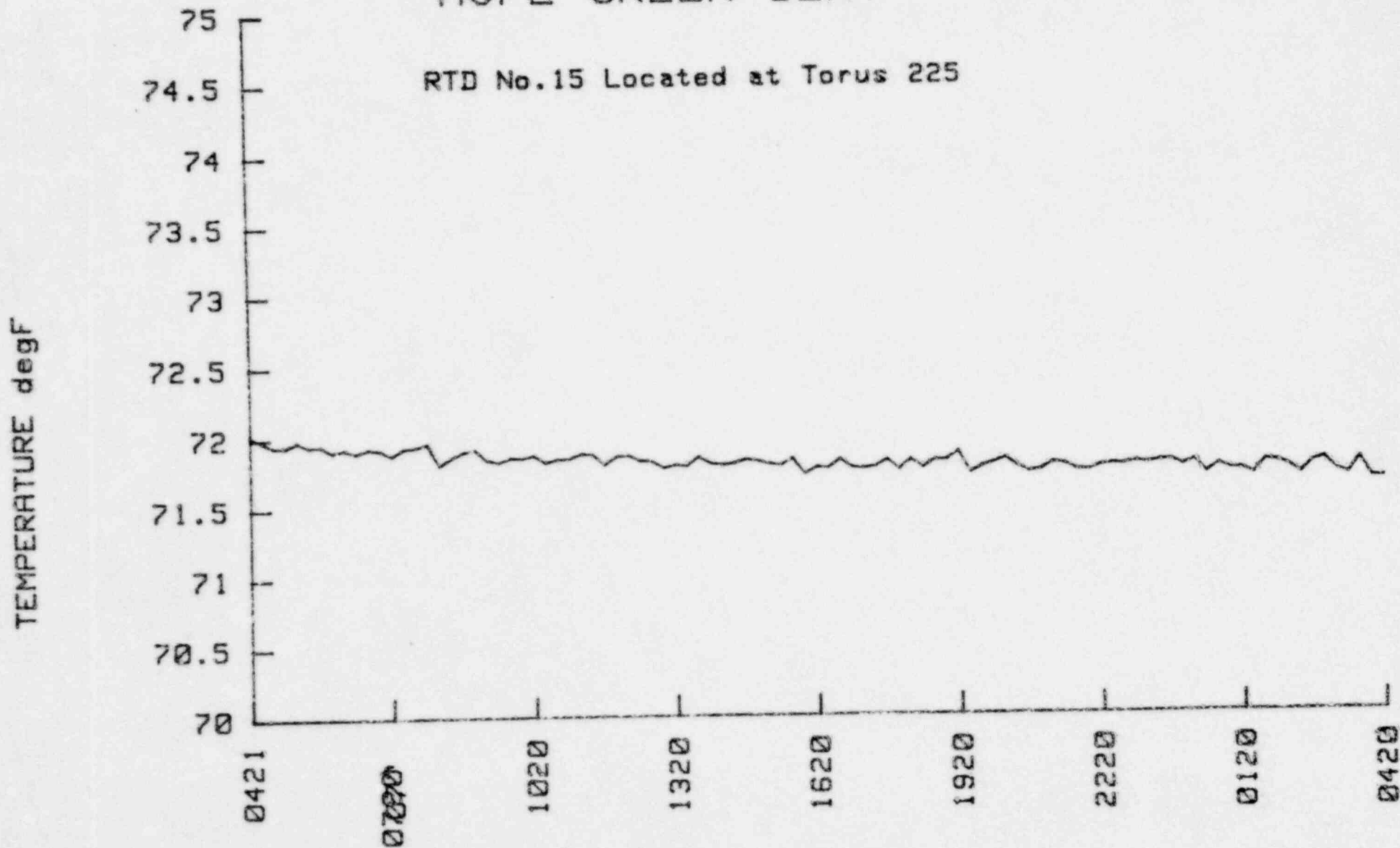
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TIME hour 31 Dec 1985

HOPE CREEK ILRT

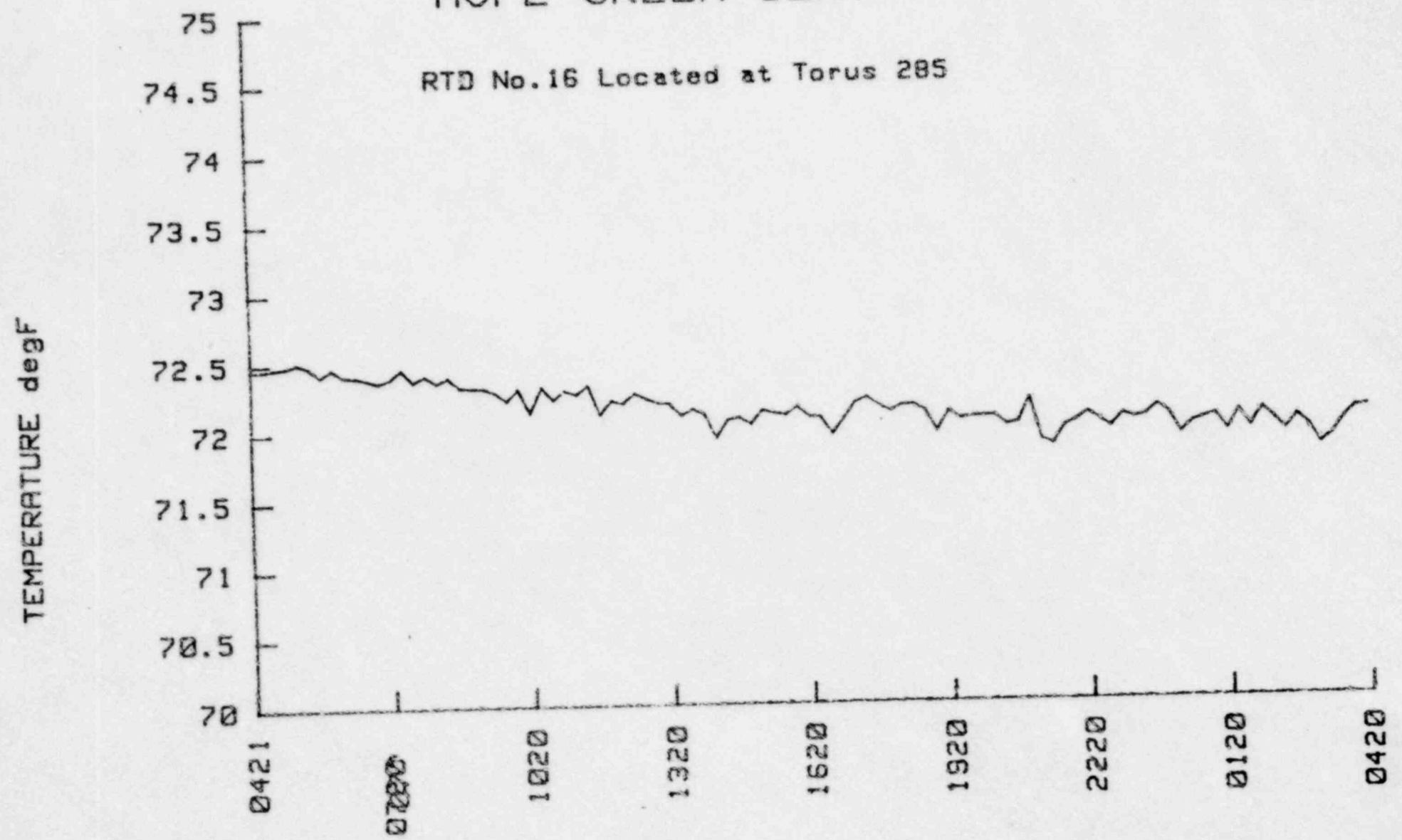
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TIME hour 31 Dec 1985

HOPE CREEK ILRT

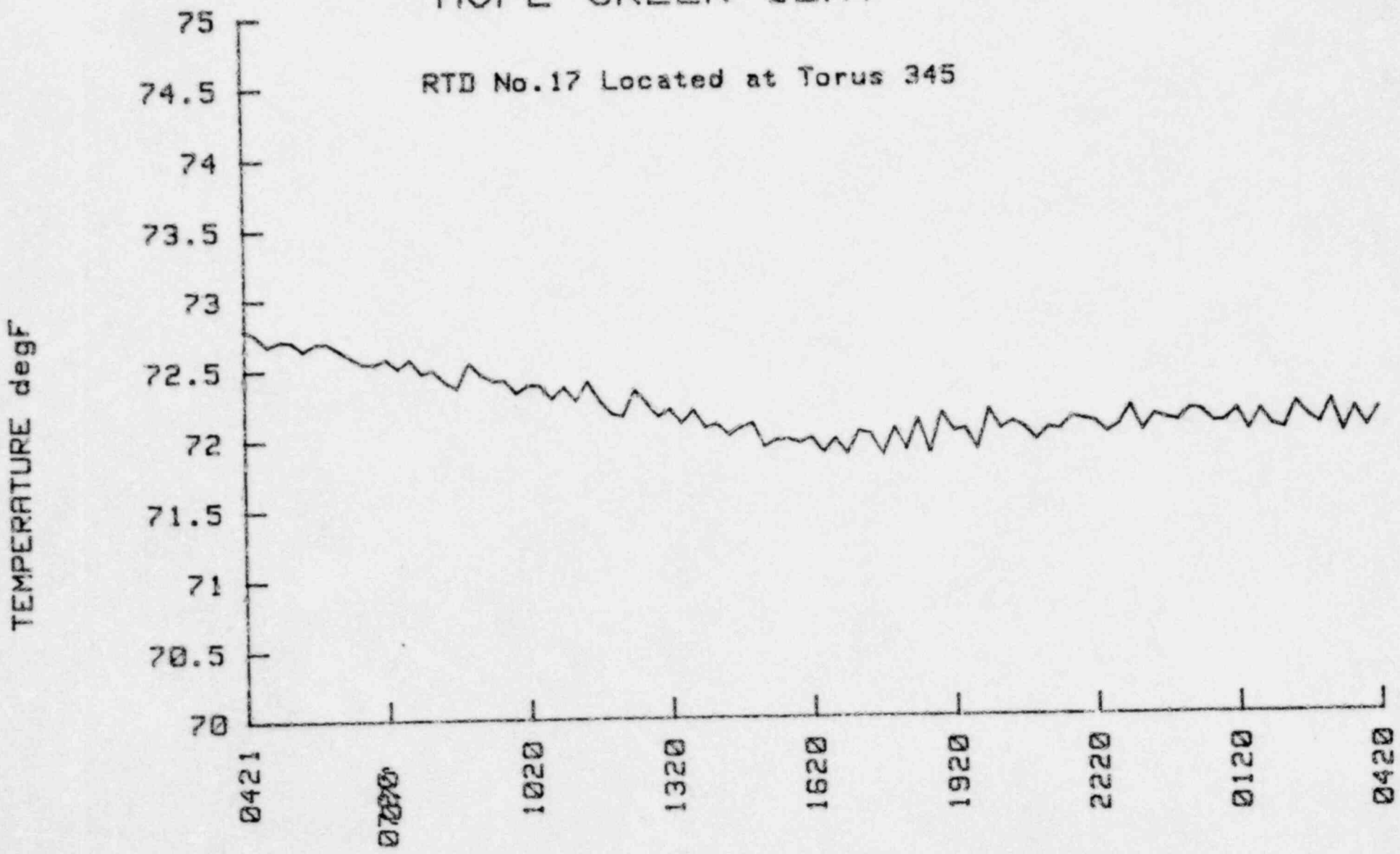
RTD No. 16 Located at Torus 285



TIME hour 31 Dec 1985

HOPE CREEK ILRT

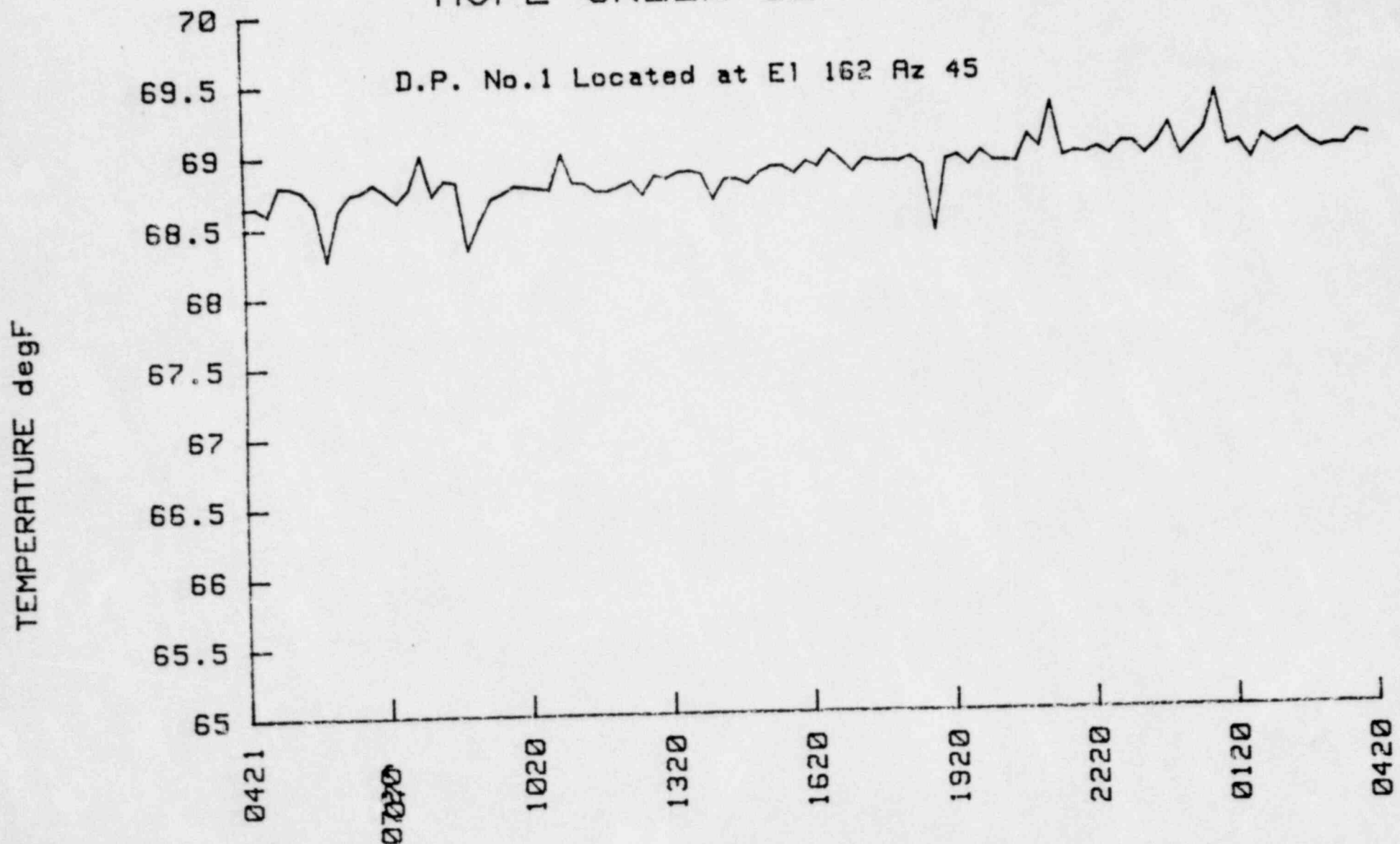
RTD No.17 Located at Torus 345



TIME hour 31 Dec 1985

HOPE CREEK ILRT

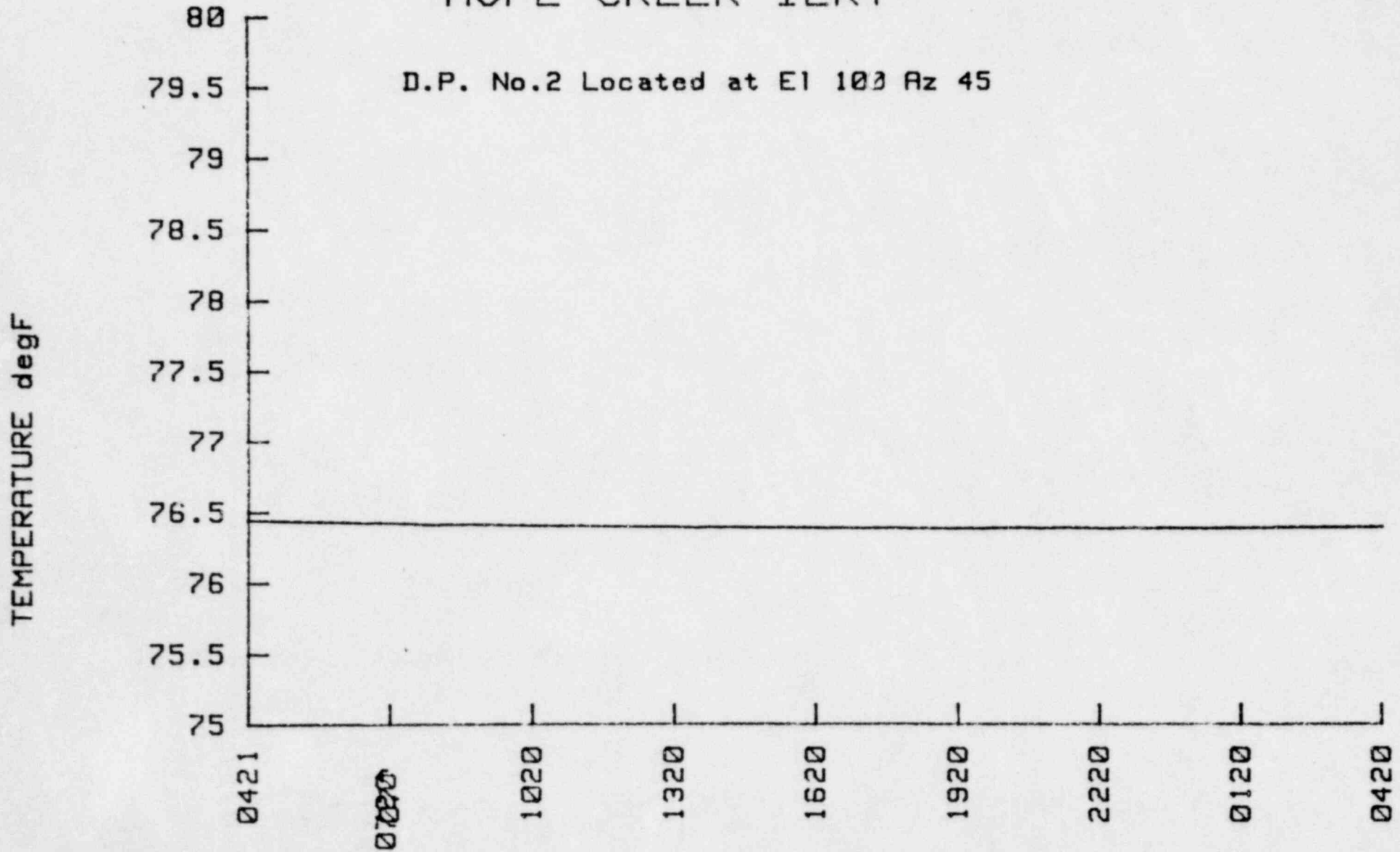
D.P. No.1 Located at El 162 Rz 45



TIME hour 31 Dec 1985

HOPE CREEK ILRT

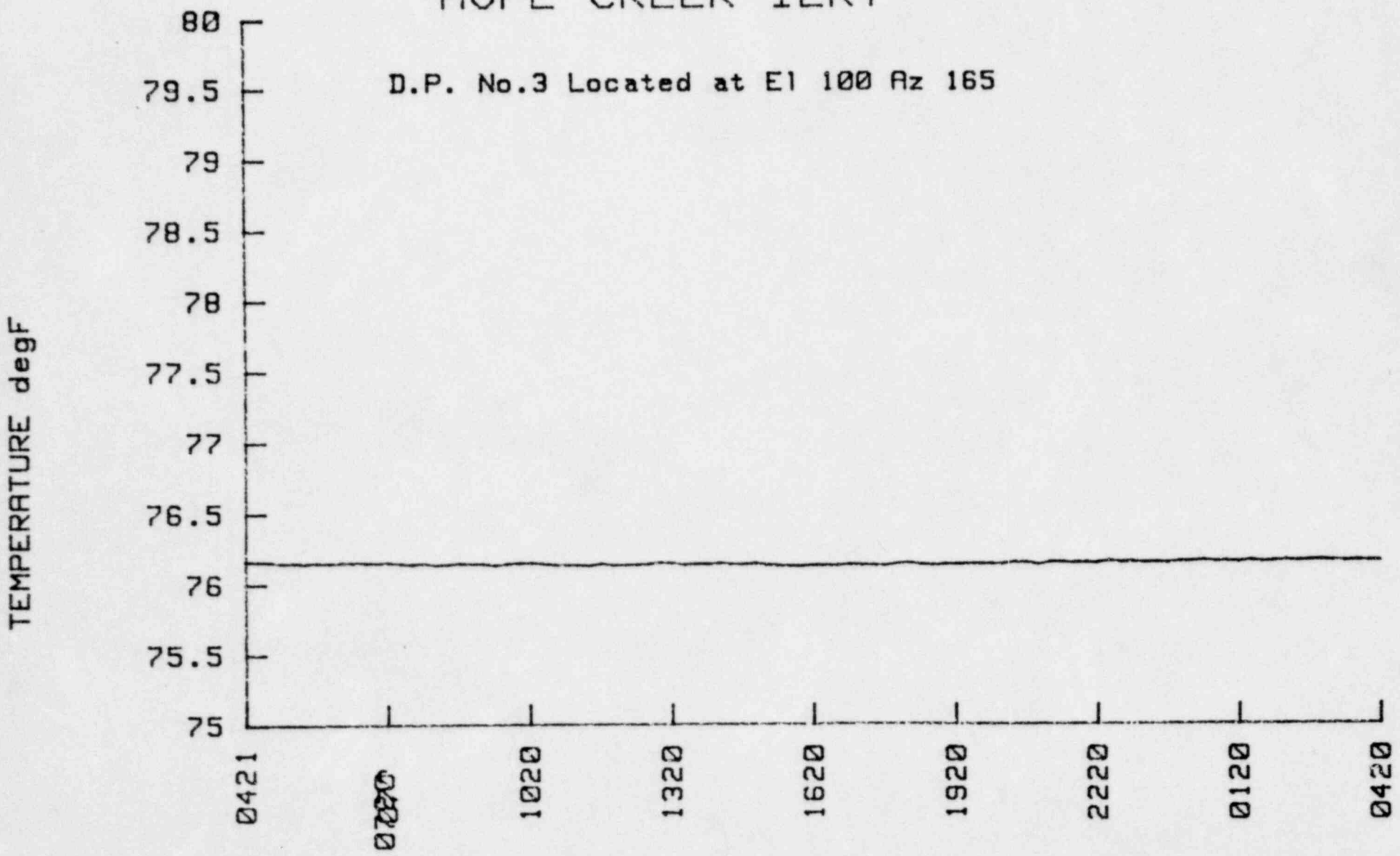
D.P. No.2 Located at El 100 Az 45



TIME hour 31 Dec 1985

HOPE CREEK ILRT

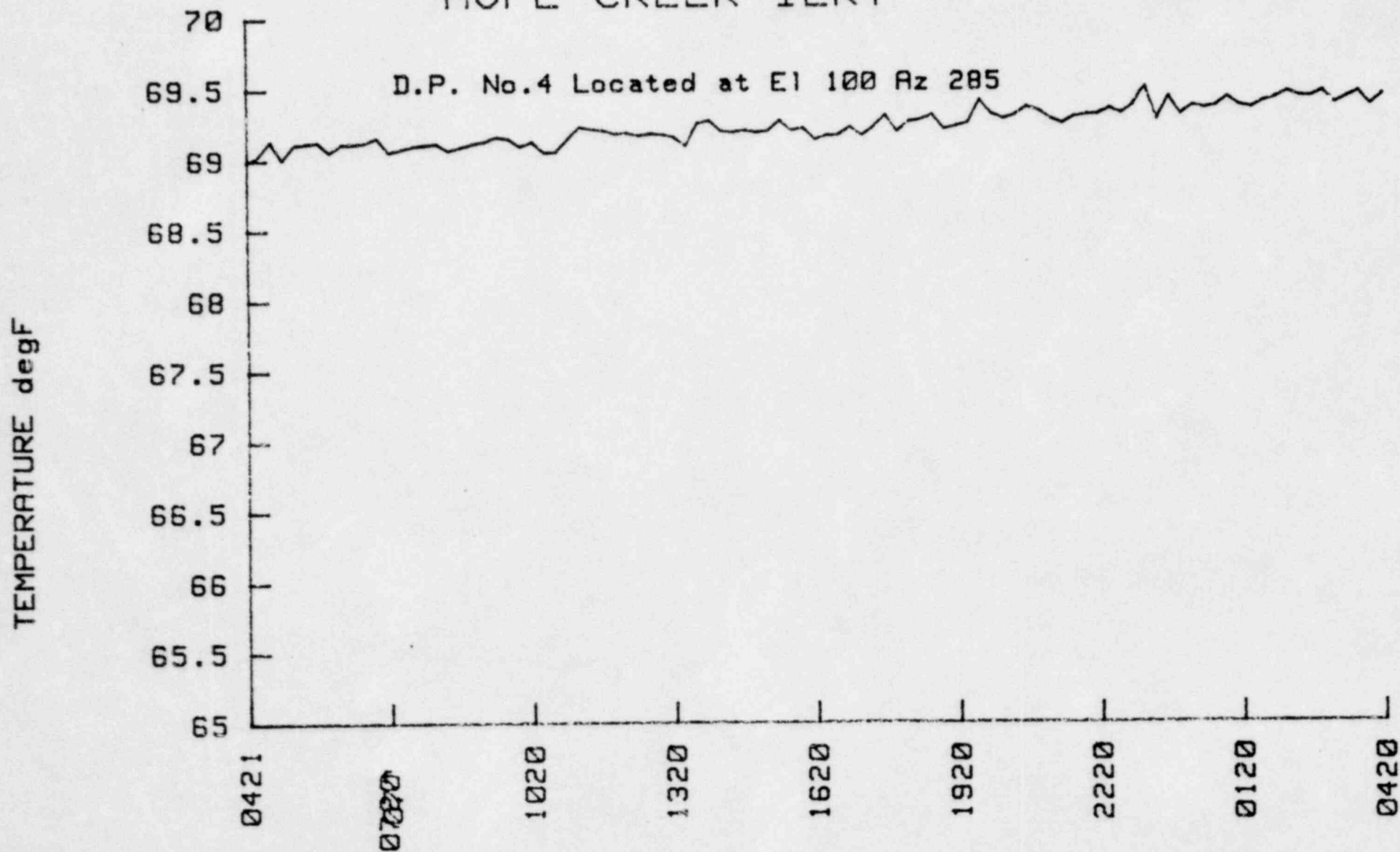
D.P. No.3 Located at El 100 Az 165



TIME hour 31 Dec 1985

HOPE CREEK ILRT

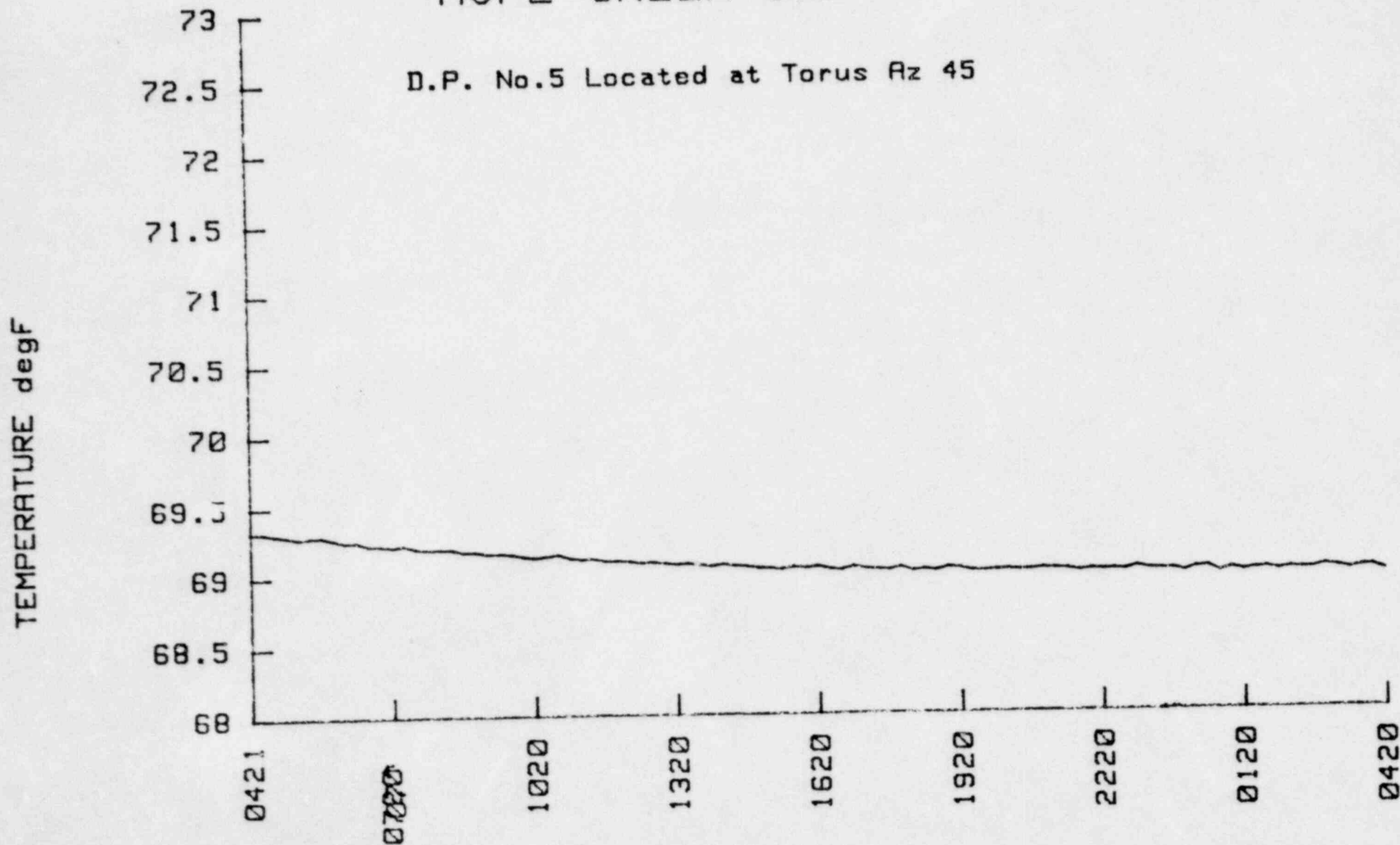
D.P. No.4 Located at El 100 Rz 285



TIME hour 31 Dec 1985

HOPE CREEK ILRT

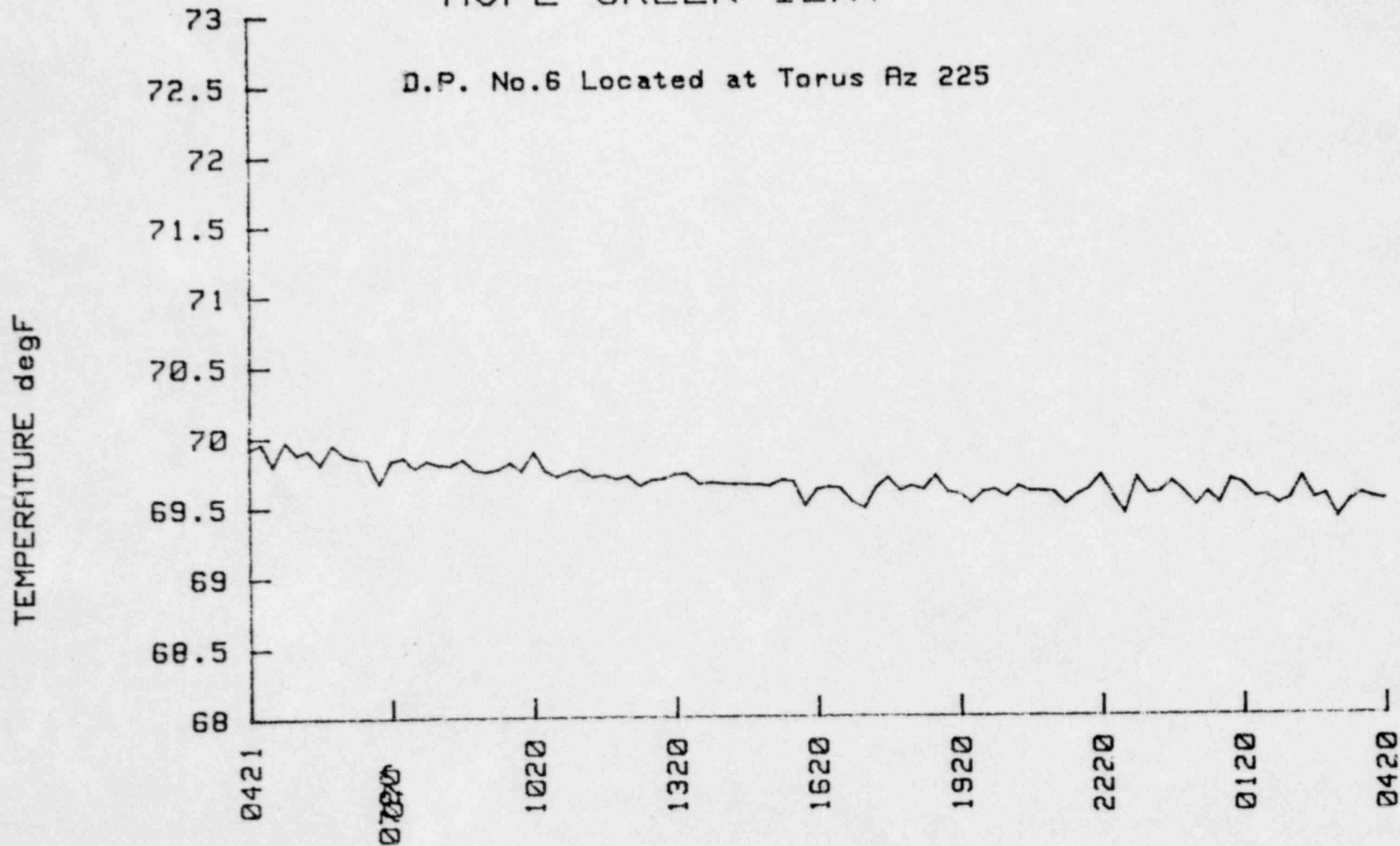
D.P. No.5 Located at Torus Az 45



TIME hour 31 Dec 1985

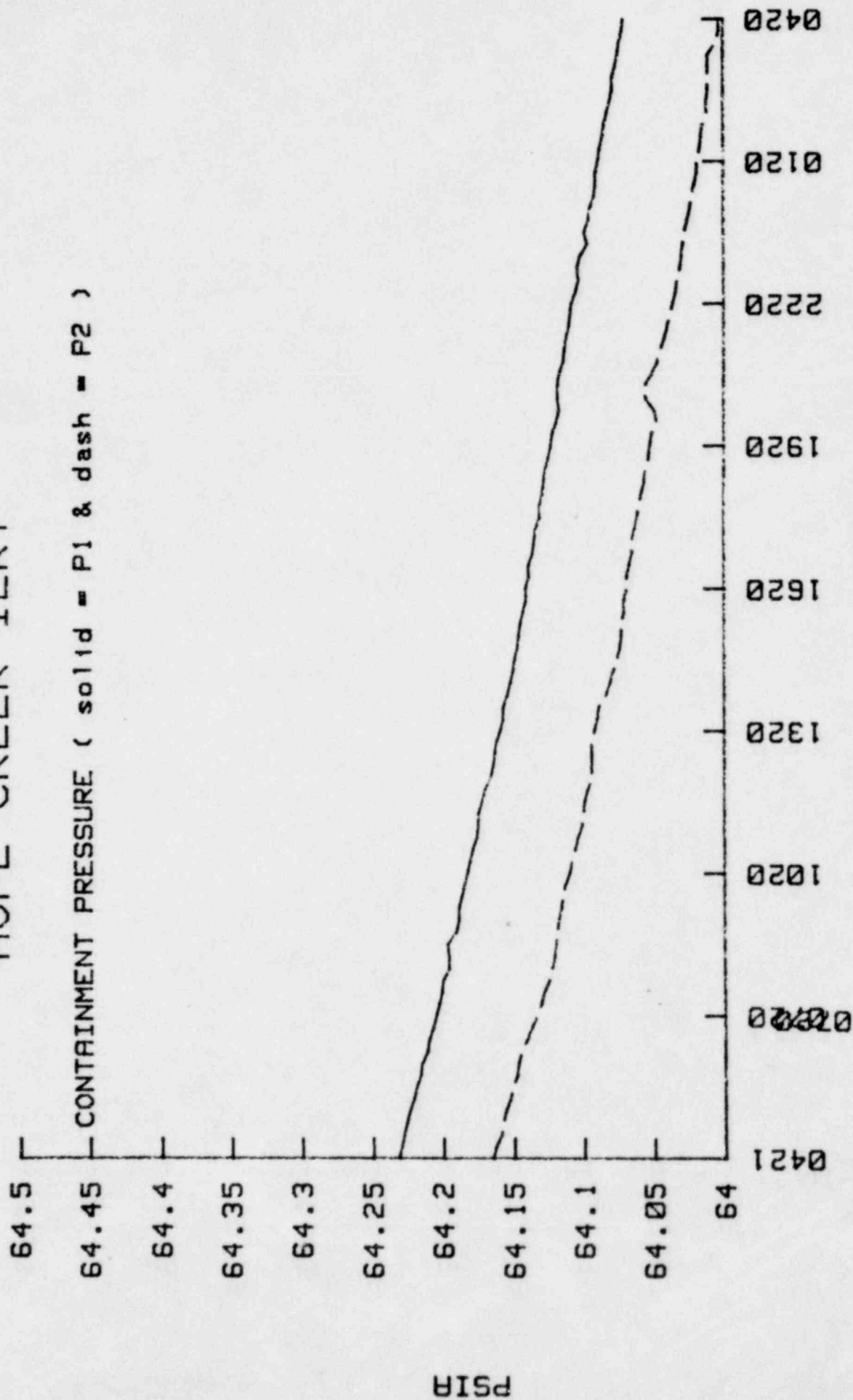
HOPE CREEK ILRT

D.P. No.6 Located at Torus Az 225



TIME hour 31 Dec 1985

HOPE CREEK ILRT



TIME hour31 Dec 1985

1 Jan 1986

HOPE CREEK GENERATING STATION

RECALC-VERIFICATION TEST

SCAN No.	TIME Hour	AMBIENT		CONTAINMENT			MASS Lbm	LEAK RATE		SUPERIMPOSED		Scfm
		PRESS Psia	TEMP DegF	TEMP DegF	DEW PT DegF	PRESS Psia		Lbm/Hr	%/Day	Lbm/Hr	%/Day	
1	08:11	14.9	41.7	75.3	69.3	63.98	97105	0.000	0.000	19.026	.470	4.269
2	08:26	14.9	41.7	75.3	69.3	63.97	97100	0.000	0.000	18.952	.469	4.252
3	08:41	14.9	42.2	75.3	69.3	63.97	97091	0.000	0.000	19.243	.476	4.318
4	08:56	14.9	42.7	75.3	69.2	63.97	97085	0.000	0.000	19.077	.472	4.281
5	09:11	14.9	42.5	75.3	69.0	63.96	97083	0.000	0.000	19.266	.476	4.324
6	09:26	14.9	42.7	75.3	69.3	63.96	97072	-25.016	.618	18.768	.464	4.213
7	09:41	14.9	43.2	75.3	69.3	63.95	97064	-27.083	.669	18.611	.460	4.178
8	09:56	14.9	43.2	75.3	69.3	63.95	97059	-26.780	.662	19.223	.475	4.315
9	10:11	14.9	43.3	75.3	69.3	63.94	97054	-26.217	.648	19.145	.473	4.298
10	10:26	14.9	43.5	75.3	69.3	63.94	97050	-25.394	.628	18.316	.453	4.112
11	10:41	14.9	44.2	75.3	69.3	63.94	97041	-25.529	.631	19.669	.486	4.416
12	10:56	14.9	44.4	75.3	69.3	63.93	97037	-25.070	.620	19.290	.477	4.331
13	11:11	14.9	45.0	75.3	69.3	63.93	97032	-24.723	.611	19.489	.482	4.376
14	11:26	14.9	45.1	75.2	69.2	63.92	97027	-24.311	.601	18.600	.460	4.177
15	11:41	14.9	45.5	75.3	69.3	63.92	97020	-24.186	.598	19.444	.481	4.366
16	11:56	14.9	46.1	75.3	69.3	63.92	97017	-23.810	.588	18.705	.462	4.201

1 Jan 1986

HOPE CREEK GENERATING STATION

RECALC-VERIFICATION TEST

SCAN No.	TIME Hour	AMBIENT		CONTAINMENT			MASS Lbm	LEAK RATE		SUPERIMPOSED		Scfm
		PRESS Psia	TEMP DegF	TEMP DegF	DEW PT DegF	PRESS Psia		Lbm/Hr	%/Day	Lbm/Hr	%/Day	
17	12:11	14.9	45.3	75.2	69.3	63.92	97016	-23.083	.571	18.693	.462	4.198

Bypass Differential Pressure Data

3 Jan 1986

HOPE CREEK GENERATING STATION

BYPASS TEST DATA

SCAN No.	TIME Hour	DRY WELL PRESS Psia	TORUS PRESS Psia	DIFF Psi	DIFF Psi/min	DIFF In/min
1	00:51:33	15.834	14.705	1.129	0.0000	0.0000
2	00:51:47	15.834	14.705	1.129	0.0000	0.0000
3	00:52:02	15.834	14.705	1.129	0.0000	0.0000
4	00:52:17	15.834	14.705	1.129	0.0000	0.0000
5	00:52:32	15.834	14.705	1.129	0.0000	0.0000
6	00:52:47	15.834	14.705	1.129	0.0000	0.0000
7	00:53:02	15.834	14.705	1.129	0.0000	0.0000
8	00:53:17	15.834	14.705	1.129	0.0000	0.0000
9	00:53:32	15.834	14.705	1.129	0.0000	0.0000
10	00:53:47	15.834	14.705	1.129	0.0000	0.0000
11	00:54:02	15.834	14.705	1.129	0.0000	0.0000
12	00:54:17	15.834	14.705	1.129	0.0000	0.0000
13	00:54:32	15.834	14.705	1.129	0.0000	0.0000
14	00:54:47	15.834	14.705	1.129	0.0000	0.0000
15	00:55:02	15.834	14.704	1.130	.0010	.0277
16	00:55:17	15.830	14.703	1.127	-.0020	-.0553
17	00:55:32	15.830	14.703	1.127	-.0020	-.0553
18	00:55:47	15.830	14.703	1.127	-.0020	-.0553
19	00:56:02	15.830	14.703	1.127	-.0030	-.0830
20	00:56:17	15.830	14.703	1.127	0.0000	0.0000

Bypass Differential Pressure Data

3 Jan 1986

HOPE CREEK GENERATING STATION

BYPASS TEST DATA

SCAN No.	TIME Hour	DRY WELL PRESS Psia	TORUS PRESS Psia	DIFF Psi	DIFF Psi/min	DIFF In/min
21	00:56:32	15.830	14.704	1.126	-.0010	-.0277
22	00:56:47	15.830	14.704	1.126	-.0010	-.0277
23	00:57:02	15.830	14.705	1.125	-.0020	-.0554
24	00:57:17	15.830	14.705	1.125	-.0020	-.0554
25	00:57:32	15.830	14.705	1.125	-.0010	-.0277
26	00:57:47	15.830	14.705	1.125	-.0010	-.0277
27	00:58:02	15.830	14.704	1.126	.0010	.0277
28	00:58:17	15.830	14.703	1.127	.0020	.0554
29	00:58:32	15.830	14.703	1.127	.0020	.0554
30	00:58:47	15.830	14.703	1.127	.0020	.0554
31	00:59:02	15.830	14.703	1.127	.0010	.0277
32	00:59:17	15.830	14.703	1.127	0.0000	0.0000
33	00:59:32	15.830	14.703	1.127	0.0000	0.0000
34	00:59:47	15.830	14.703	1.127	0.0000	0.0000
35	01:00:02	15.830	14.703	1.127	0.0000	0.0000
36	01:00:17	15.830	14.703	1.127	0.0000	0.0000
37	01:00:32	15.830	14.703	1.127	0.0000	0.0000
38	01:00:47	15.830	14.703	1.127	0.0000	0.0000
39	01:01:02	15.830	14.703	1.127	0.0000	0.0000
40	01:01:17	15.830	14.703	1.127	0.0000	0.0000

Bypass Differential Pressure Data

3 Jan 1986

HOPE CREEK GENERATING STATION

BYPASS TEST DATA

SCAN No.	TIME Hour	DRY WELL	TORUS	DIFF	DIFF	DIFF
		PRESS P _{sia}	PRESS P _{sia}	P _{s1}	P _{s1} /min	In/min
41	01:01:32	15.830	14.703	1.127	0.0000	0.0000
42	01:01:47	15.830	14.703	1.127	0.0000	0.0000
43	01:02:02	15.830	14.703	1.127	0.0000	0.0000
44	01:02:17	15.830	14.703	1.127	0.0000	0.0000
45	01:02:32	15.830	14.703	1.127	0.0000	0.0000
46	01:02:47	15.830	14.703	1.127	0.0000	0.0000
47	01:03:02	15.829	14.703	1.126	-.0010	-.0277
48	01:03:17	15.829	14.703	1.126	-.0010	-.0277
49	01:03:32	15.829	14.703	1.126	-.0010	-.0277
50	01:03:47	15.829	14.703	1.126	-.0010	-.0277
51	01:04:02	15.829	14.703	1.126	0.0000	0.0000
52	01:04:17	15.829	14.703	1.126	0.0000	0.0000
53	01:04:32	15.829	14.703	1.126	0.0000	0.0000
54	01:04:47	15.829	14.703	1.126	0.0000	0.0000
55	01:05:02	15.829	14.702	1.127	.0010	.0277
56	01:05:17	15.829	14.701	1.128	.0020	.0554
57	01:05:32	15.829	14.701	1.128	.0020	.0554
58	01:05:47	15.828	14.701	1.127	.0010	.0277
59	01:06:02	15.828	14.701	1.127	0.0000	0.0000
60	01:06:17	15.828	14.701	??	-.0010	-.0277

Bypass Differential Pressure Data

3 Jan 1986

HOPE CREEK GENERATING STATION

BYPASS TEST DATA

SCAN No.	TIME Hour	DRY WELL PRESS Psia	TORUS PRESS Psia	DIFF Psi	DIFF Psi/min	DIFF In/min
61	01:06:32	15.828	14.701	1.127	-.0010	-.0277
62	01:06:47	15.828	14.701	1.127	0.0000	0.0000
63	01:07:02	15.828	14.701	1.127	0.0000	0.0000
64	01:07:17	15.828	14.701	1.127	0.0000	0.0000
65	01:07:32	15.828	14.701	1.127	0.0000	0.0000
66	01:07:47	15.828	14.701	1.127	0.0000	0.0000
67	01:08:02	15.828	14.701	1.127	0.0000	0.0000
68	01:08:17	15.828	14.701	1.127	0.0000	0.0000
69	01:08:32	15.828	14.701	1.127	0.0000	0.0000
70	01:08:47	15.828	14.701	1.127	0.0000	0.0000
71	01:09:02	15.827	14.698	1.129	.0020	.0554
72	01:09:17	15.826	14.698	1.128	.0010	.0277
73	01:09:32	15.826	14.698	1.128	.0010	.0277
74	01:09:47	15.826	14.699	1.127	0.0000	0.0000
75	01:10:02	15.826	14.699	1.127	-.0020	-.0554
76	01:10:17	15.826	14.699	1.127	-.0010	-.0277
77	01:10:32	15.826	14.699	1.127	-.0010	-.0277
78	01:10:47	15.826	14.699	1.127	0.0000	0.0000
79	01:11:02	15.826	14.699	1.127	0.0000	0.0000
80	01:11:17	15.826	14.699	1.127	0.0000	0.0000

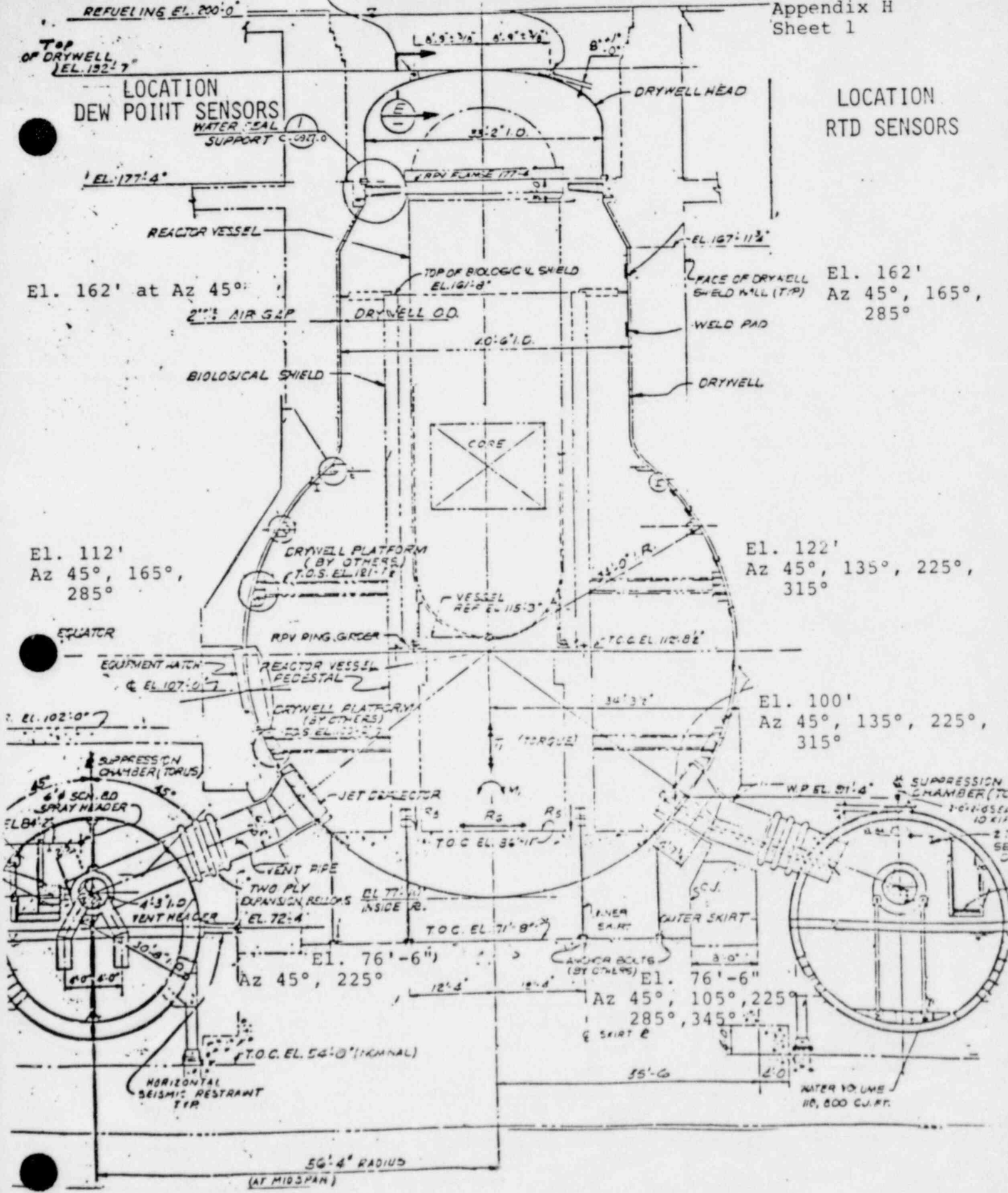
Bypass Differential Pressure Data

3 Jan 1986

HOPE CREEK GENERATING STATION

BYPASS TEST DATA

SCAN No.	TIME Hour	DRY WELL	TORUS	DIFF	DIFF	DIFF
		PRESS Psia	PRESS Psia	Psi	Psi/min	In/min
81	01:11:32	15.826	14.699	1.127	0.0000	0.0000
82	01:11:47	15.826	14.699	1.127	0.0000	0.0000
83	01:12:02	15.826	14.699	1.127	0.0000	0.0000
84	01:12:17	15.826	14.699	1.127	0.0000	0.0000
85	01:12:32	15.826	14.699	1.127	0.0000	0.0000
86	01:12:47	15.826	14.698	1.128	.0010	.0277
87	01:13:02	15.826	14.699	1.127	0.0000	0.0000
88	01:13:17	15.826	14.699	1.127	0.0000	0.0000



2 Jan 1986

HOPE CREEK GENERATING STATION

WEIGH FACTOR File # 3

TEMPERATURE WEIGH FACTOR

RTD NO.	LABEL	WEIGH FACTOR
1	EL 162 Az 45	4.71
2	EL 162 Az 165	4.71
3	EL 162 Az 285	4.71
4	EL 122 Az 45	4.51
5	EL 122 Az 135	4.51
6	EL 122 Az 225	4.51
7	EL 122 Az 315	4.51
8	EL 100 Az 45	5.63
9	EL 100 Az 135	5.63
10	EL 100 Az 225	5.63
11	EL 100 Az 315	5.63
12	Torus Az 45	7.55
13	Torus 105	7.55
14	Torus 165	7.55
15	Torus 225	7.55
16	Torus 285	7.55
17	Torus 345	7.55

Weigh Factor total is 100.0 If total is not 100% then correct
300

D.P. TEMPERATURE WEIGH FACTOR

D.P. NO.	LABEL	WEIGH FACTOR
1	EL 162 Az 45	14.12
2	EL 100 Az 45	0.00
3	EL 100 Az 165	0.00
4	EL 100 Az 285	40.59
5	Torus Az 45	22.65
6	Torus Az 225	22.65

D.P. weigh factor total is 100.0 If total is not 100% then correct

PRESSURE WEIGH FACTOR

T I NO.	LABEL	WEIGH FACTOR
1	V006	50.00
2	V007	50.00

LOCAL LEAKAGE TEST DATA
TYPE B PNEUMATIC TEST RESULTS

Appendix J
Table 1
Sheet 1 of 12

<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
P1A	MAIN STEAM A PENETRATION DOUBLE BELLOWS	2.2
P1B	MAIN STEAM B PENETRATION DOUBLE BELLOWS	0
P1C	MAIN STEAM C PENETRATION DOUBLE BELLOWS	0
P1D	MAIN STEAM D PENETRATION DOUBLE BELLOWS	0
P2A	FEEDWATER B PENETRATION DOUBLE BELLOWS	1.2
P2B	FEEDWATER A PENETRATION DOUBLE BELLOWS	4.5
P3	RHR SHUTDOWN COOLING PENETRATION DOUBLE BELLOWS	0
P4A	RHR SHUTDOWN COOLING PENETRATION DOUBLE BELLOWS	5.3 (NOTE 1)
P4B	RHR SHUTDOWN COOLING PENETRATION DOUBLE BELLOWS	4
P5A	CORE SPRAY PENETRATION DOUBLE BELLOWS	4.9 (NOTE 2)

LOCAL LEAKAGE TEST DATA
 TYPE B PNEUMATIC TEST RESULTS

Appendix J
 Table 1
 Sheet 2 of 12

<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
P5B	CORE SPRAY PENETRATION DOUBLE BELLOWS	6
P6A	RHR, LPCI PENETRATION DOUBLE BELLOWS	(NOTE 2)
P6B	RHR, LPCI PENETRATION DOUBLE BELLOWS	(NOTE 1)
P6C	RHR, LPCI PENETRATION DOUBLE BELLOWS	2
P6D	RHR, LPCI PENETRATION DOUBLE BELLOWS	4
P7	HPCI - TURBINE STEAM PENETRATION DOUBLE BELLOWS	13
P8A	CHILLED WATER PENETRATION DOUBLE BELLOWS	(NOTE 1)
P8B	CHILLED WATER PENETRATION DOUBLE BELLOWS	(NOTE 2)
P9	RWCU PUMP SUCTION PENETRATION DOUBLE BELLOWS	0.1
P10	RHR RX. HEAD SPRAY PENETRATION DOUBLE BELLOWS	11.4

LOCAL LEAKAGE TEST DATA
TYPE B PNEUMATIC TEST RESULTS

Appendix J
Table 1
Sheet 3 of 12

<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
P11	RCIC TURBINE STEAM PENETRATION DOUBLE BELLOWS	(NOTE 2)
P12	MAIN STEAM DRAIN PENETRATION DOUBLE BELLOWS	4.2
P34A	TIP PROBE TUBE FLANGE	0
P34B	TIP PROBE TUBE FLANGE	0
P34C	TIP PROBE TUBE FLANGE	0
P34D	TIP PROBE TUBE FLANGE	0
P34E	TIP PROBE TUBE FLANGE	0
P34F	TIP PURGE PENETRATION FLANGE	0
P34G	TIP PROBE SPARE PENETRATION FLANGE	0
P38A	CHILLED WATER PENETRATION DOUBLE BELLOWS	0
P38B	CHILLED WATER PENETRATION DOUBLE BELLOWS	2.0
C-1	DRYWELL EQUIPMENT HATCH SEAL	2.34
C-2	DRYWELL EQUIPMENT HATCH SEAL	0.85

LOCAL LEAKAGE TEST DATA
TYPE B PNEUMATIC TEST RESULTS

Appendix J
Table 1
Sheet 4 of 12

<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
C-2	DRYWELL PERSONNEL AIR LOCK, ATMOSPHERE BULKHEAD DOOR SEAL	(NOTE 3)
C-2	DRYWELL PERSONNEL AIR LOCK, CONTAINMENT BULKHEAD DOOR SEAL	(NOTE 3)
C-2	DRYWELL PERSONNEL AIR LOCK, ATMOSPHERE BULKHEAD FOOT PEDAL	(NOTE 3)
C-2	DRYWELL PERSONNEL AIR LOCK, ATMOSPHERE REMOTE DOOR INDICATOR	(NOTE 3)
C-2	DRYWELL PERSONNEL AIR LOCK, ATMOSPHERE BULKHEAD HANDWHEEL SHAFT	(NOTE 3)
C-2	DRYWELL PERSONNEL AIR LOCK, CONTAINMENT BULKHEAD INTERLOCK SHAFT	(NOTE 3)
C-2	DRYWELL PERSONNEL AIR LOCK, CONTAINMENT BULKHEAD HANDWHEEL SHAFT	(NOTE 3)
C-2	DRYWELL PERSONNEL AIR LOCK, CHAMBER	1440 (NOTE 3)
C-3	CONTROL ROD DRIVE REMOVAL HATCH COVER SEAL	0
C-5	DRYWELL HEAD INSPECTION HATCH SEAL	1.0

LOCAL LEAKAGE TEST DATA
 TYPE B PNEUMATIC TEST RESULTS

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<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
-	DRYWELL HEAD SEAL	5.7
-	DRYWELL SHEAR LUG INSPECTION COVER SEAL 0°	0
-	DRYWELL SHEAR LUG INSPECTION COVER SEAL 45°	0
-	DRYWELL SHEAR LUG INSPECTION COVER SEAL 90°	0
-	DRYWELL SHEAR LUG INSPECTION COVER SEAL 135°	0
-	DRYWELL SHEAR LUG INSPECTION COVER SEAL 180°	0
-	DRYWELL SHEAR LUG INSPECTION COVER SEAL 225°	0
-	DRYWELL SHEAR LUG INSPECTION COVER SEAL 270°	0
-	DRYWELL SHEAR LUG INSPECTION COVER SEAL 315°	0
C201A	TORUS ACCESS HATCH SEAL	0
C201B	TORUS ACCESS HATCH SEAL	0

LOCAL LEAKAGE TEST DATA
TYPE B PNEUMATIC TEST RESULTS

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<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
C201C	TORUS ACCESS HATCH SEAL	0.57
C201D	TORUS ACCESS HATCH SEAL	2.2
P221A	TORUS DRAIN COVER SEAL	0
P221B	TORUS DRAIN COVER SEAL	0
P221C	TORUS DRAIN COVER SEAL	0
P221D	TORUS DRAIN COVER SEAL	0
P229A	DRYWELL VENT LINE DOUBLE BELLOWS	0
P229B	DRYWELL VENT LINE DOUBLE BELLOWS	0
P229C	DRYWELL VENT LINE DOUBLE BELLOWS	5.7
P229D	DRYWELL VENT LINE DOUBLE BELLOWS	0
P229E	DRYWELL VENT LINE DOUBLE BELLOWS	0
P229F	DRYWELL VENT LINE DOUBLE BELLOWS	0

LOCAL LEAKAGE TEST DATA
 TYPE B PNEUMATIC TEST RESULTS

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<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
P229G	DRYWELL VENT LINE DOUBLE BELLOWS	0
P229H	DRYWELL VENT LINE DOUBLE BELLOWS	0
P22	1-GS-V009 - CONTAINMENT SIDE FLANGE	0
P23	1-GS-V024 - CONTAINMENT SIDE FLANGE	0.16
P219	1-GS-V028 - CONTAINMENT SIDE FLANGE	0.7 (NOTE 4)
P219	1-GS-V080 - CONTAINMENT SIDE FLANGE	(NOTE 4)
P220	1-GS-V022 - CONTAINMENT SIDE FLANGE	(NOTE 5) 0.7
P220	1-GS-V038 - CONTAINMENT SIDE FLANGE	(NOTE 5)
W100A	ELECTRICAL PENETRATION 1AW200	0
W100B	ELECTRICAL PENETRATION 1BW200	0

LOCAL LEAKAGE TEST DATA
TYPE B PNEUMATIC TEST RESULTS

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<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
W100C	ELECTRICAL PENETRATION 1CW200	0
W100D	ELECTRICAL PENETRATION 1DW200	0
W101A	ELECTRICAL PENETRATION 1AW201	0
W101B	ELECTRICAL PENETRATION 1BW201	0
W101C	ELECTRICAL PENETRATION 1CW201	0
W101D	ELECTRICAL PENETRATION 1DW201	0
W101E	ELECTRICAL PENETRATION 1EW201	0
W101F	ELECTRICAL PENETRATION 1FW201	0
W102A	ELECTRICAL PENETRATION 1AW202	0
W102B	ELECTRICAL PENETRATION 1BW202	0

LOCAL LEAKAGE TEST DATA
TYPE B PNEUMATIC TEST RESULTS

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<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
W102C	ELECTRICAL PENETRATION 1CW202	0
W102D	ELECTRICAL PENETRATION 1DW202	0
W103A	ELECTRICAL PENETRATION 1AW203	0
W103B	ELECTRICAL PENETRATION 1BW203	0
W104A	ELECTRICAL PENETRATION 1AW204	0
W104B	ELECTRICAL PENETRATION 1BW204	0
W104C	ELECTRICAL PENETRATION 1CW204	0
W104D	ELECTRICAL PENETRATION 1DW204	0
W104E	ELECTRICAL PENETRATION 1EW204	0
W104F	ELECTRICAL PENETRATION 1FW204	0

LOCAL LEAKAGE TEST DATA
TYPE B PNEUMATIC TEST RESULTS

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<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
W104G	ELECTRICAL PENETRATION 1GW204	0
W104H	ELECTRICAL PENETRATION 1HW204	0
W104J	ELECTRICAL PENETRATION 1JW204	0
W104K	ELECTRICAL PENETRATION 1KW204	0
W105A	ELECTRICAL PENETRATION 1AW205	0
W105B	ELECTRICAL PENETRATION 1BW205	0
W105C	ELECTRICAL PENETRATION 1CW205	0
W105D	ELECTRICAL PENETRATION 1DW205	0
W105E	ELECTRICAL PENETRATION 1EW205	0
W105F	ELECTRICAL PENETRATION 1FW205	0

LOCAL LEAKAGE TEST DATA
TYPE B PNEUMATIC TEST RESULTS

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<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
W105G	ELECTRICAL PENETRATION 1GW205	0
W105H	ELECTRICAL PENETRATION 1HW205	0
W106A	ELECTRICAL PENETRATION 1AW206	0
W106B	ELECTRICAL PENETRATION 1BW206	0
W106C	ELECTRICAL PENETRATION 1CW206	0
W201A	ELECTRICAL PENETRATION 1AW207	0
W201B	ELECTRICAL PENETRATION 1BW207	0
W201C	ELECTRICAL PENETRATION 1CW207	0
W201D	ELECTRICAL PENETRATION 1DW207	0
W202A	ELECTRICAL PENETRATION 1AW208	0

LOCAL LEAKAGE TEST DATA
TYPE B PNEUMATIC TEST RESULTS

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<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
W203A	ELECTRICAL PENETRATION 1AW209	0
	TYPE 'B' LLRT - TOTAL + _____	1,524.72(SCCM)

NOTE 1: PENETRATION BELLOWS WERE TESTED IN PARALLEL WITH RESULTS LISTED AT P4A.

NOTE 2: PENETRATION BELLOWS WERE TESTED IN PARALLEL WITH RESULTS LISTED AT P5A.

NOTE 3: PERSONNEL AIRLOCK PENETRATIONS AND DOOR SEAL WERE TESTED BY THE OVERALL PERSONNEL AIRLOCK TEST.

NOTE 4: VALVE FLANGES FOR 1-GS-V028 AND 1-GS-V080 WERE TESTED IN PARALLEL.

NOTE 5: VALVE FLANGES FOR 1-GS-V022 AND 1-GS-V038 WERE TESTED IN PARALLEL.

LOCAL LEAKAGE TEST DATA
 TYPE C PNEUMATIC TEST RESULTS

Appendix J
 Table 2
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<u>REGISTRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
P2A	FEEDWATER LINE	257 (NOTE 1)
P2B	FEEDWATER LINE	968
P3	RESIDUAL HEAT REMOVAL - SHUTDOWN COOLING SUCTION	950
P4A	RESIDUAL HEAT REMOVAL - SHUTDOWN COOLING RETURN	18
P4B	RESIDUAL HEAT REMOVAL - SHUTDOWN COOLING RETURN	165
P5A	CORE SPRAY TO REACTOR	922
P5B	CORE SPRAY TO REACTOR	902.4
P6A	LOW PRESSURE COOLANT INJECTION - RHR	1267
P6B	LOW PRESSURE COOLANT INJECTION - RHR	253 (NOTE 1)
P6C	LOW PRESSURE COOLANT INJECTION - RHR	304.8
P6D	LOW PRESSURE COOLANT INJECTION - RHR	315

LOCAL LEAKAGE TEST DATA
TYPE C PNEUMATIC TEST RESULTS

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Table 2
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<u>IDENTIFICATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
P7	HIGH PRESSURE COOLANT INJECTION TURBINE STEAM SUPPLY	192.1
P8A	CHILLED WATER FROM DRYWELL COOLERS	580
P8B	CHILLED WATER TO DRYWELL COOLERS	650
P9	REACTOR WATER CLEANUP SUPPLY	0.2
P10	RESIDUAL HEAT REMOVAL - HEAD SPRAY	27.0
P11	REACTOR CORE ISOLATION COOLING TURBINE STEAM SUPPLY	8.59
P12	MAIN STEAM DRAIN	96
P17	REACTOR RECIRCULATION WATER SAMPLE	7.5
P18	STANDBY LIQUID CONTROL	21
P19	REACTOR RECIRCULATION PUMP SEAL WATER	0

LOCAL LEAKAGE TEST DATA
 TYPE C PNEUMATIC TEST RESULTS

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<u>IDENTIFICATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
P20	REACTOR RECIRCULATION PUMP SEAL WATER	4.6
P22	DRYWELL PURGE INLET VENT	1083.5
P23	DRYWELL PURGE OUTLET VENT	2190
P24A	RESIDUAL HEAT REMOVAL - CONTAINMENT SPRAY	1663.9
P24B	RESIDUAL HEAT REMOVAL - CONTAINMENT SPRAY	880
P25	DRYWELL FLOOR DRAIN SUMP DISCHARGE	96.7
P26	DRYWELL EQUIPMENT DRAIN SUMP DISCHARGE	82
P27	SERVICE AIR TO DRYWELL	240
P28A	INSTRUMENT GAS TO DRYWELL	24
P28B	INSTRUMENT GAS TO DRYWELL	72
P29	REACTOR AUXILLIARY COOLING RETURN	174.7
P30	REACTOR AUXILLIARY COOLING RETURN	93.55

LOCAL LEAKAGE TEST DATA
 TYPE C PNEUMATIC TEST RESULTS

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<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
P31	BREATHING AIR	69.6
P34A	PROBE GUIDE TUBE	1.5
P34B	PROBE GUIDE TUBE	20.5
P34C	PROBE GUIDE TUBE	1.1
P34D	PROBE GUIDE TUBE	8.2
P34E	PROBE GUIDE TUBE	48
P34F	TRAVERSING INCORE PROBE PURGE	0
P38A	CHILLED WATER TO DRYWELL COOLERS	462
P38B	CHILLED WATER FROM DRYWELL COOLERS	792
P39	INSTRUMENT GAS SUCTION	119
P204	HPCI & RCIC VACUUM NETWORK	71.2
P214A	RESIDUAL HEAT REMOVAL TO TORUS SPRAY HEADER	296
P214B	RESIDUAL HEAT REMOVAL TO TORUS SPRAY HEADER	322

LOCAL LEAKAGE TEST DATA
 TYPE C PNEUMATIC TEST RESULTS

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 Table 2
 Sheet 5 of 7

<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
P219	TORUS PURGE OUTLET AND TORUS VACUUM RELIEF	432.45
P220	TORUS PURGE INLET AND TORUS VACUUM RELIEF	752 (NOTE 2)
P227	POST ACCIDENT LIQUID SAMPLING RETURN	0.4
J3B	HYDROGEN/OXYGEN ANALYZER INLET	0.4
J5A	REACTOR COOLANT PRESSURE BOUNDARY LEAKAGE DETECTION GAS SAMPLER RETURN	66.6
D	HYDROGEN/OXYGEN ANALYZER INLET	70
J7E	POST ACCIDENT GAS SAMPLE	1.2
J8C	REACTOR COOLANT PRESSURE BOUNDARY LEAKAGE LEAKAGE DETECTION GAS SAMPLER SUPPLY	14.8
J9E	HYDROGEN/OXYGEN ANALYZER INLET	5.31
J10C	HYDROGEN/OXYGEN ANALYZER INLET	35

LOCAL LEAKAGE TEST DATA
TYPE C PNEUMATIC TEST RESULTS

Appendix J
Table 2
Sheet 6 of 7

<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
J10E	POST ACCIDENT GAS SAMPLE	1.4
J36C	ILRT LINE	3.84
J36D	ILRT LINE	6.92
J50	JET PUMP FLOW/POST ACCIDENT SAMPLING	2.0
J201	TORUS OUTLET TO "A" HYDROGEN/OXYGEN ANALYZER	83.5
J202	TORUS OUTLET TO "B" HYDROGEN/OXYGEN ANALYZER	50
J206	POST ACCIDENT SAMPLING	62.7
J209	TORUS WATER LEVEL/ILRT LINE	6.79
J210	TORUS INLET TO "B" HYDROGEN /OXYGEN ANALYZER	3.1
J211	INSTRUMENT AIR TO TORUS	13.5
J212	TORUS INLET TO "A" HYDROGEN/ OXYGEN ANALYZER	60.6

LOCAL LEAKAGE TEST DATA
TYPE C PNEUMATIC TEST RESULTS

Appendix J
Table 2
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<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (SCCM)</u>
J220	POST ACCIDENT SAMPLING	62.8
J221	POST ACCIDENT GAS SAMPLING	34.5

PNEUMATIC TYPE "C" LLRT TOTAL 18,490.45(SCCM)

NOTE 1: Failed LLRT prior to ILRT - Results are post ILRT.

NOTE 2: Valves 1-GS-V020 and 1-GS-V022 were tested in parallel with valves 1-GS-V009, 1-GS-V021 and 1-GS-V023. Results are listed with P-22.

LOCAL LEAKAGE TEST DATA
HYDROSTATIC LOCAL LEAKAGE TEST RESULTS

Appendix J
Table 3
Sheet 1 of 2

<u>PENETRATION NO.</u>	<u>DESCRIPTION</u>	<u>LEAKAGE (GPM)</u>
P201	High Pressure Coolant Injection Turbine Exhaust	0.018
P202	High Pressure Coolant Injection Pump Suction	0.002
P203	High Pressure Coolant Injection Minimum Return	0.049
P207	Reactor Core Isolation Cooling Turbine Exhaust	0.041
P208	Reactor Core Isolation Cooling Pump Suction	0.082
P209	Reactor Core Isolation Cooling Minimum Return	0.720
P210	Non-condensable gas from RCIC vacuum pump	0.004
P211A	Residual Heat Removal pump suction	0.036
P211B	Residual Heat Removal pump suction	0.001
P211C	Residual Heat Removal pump suction	0.001

ILRT DATA ACQUISITION SYSTEM

