Baltimore Gas and Electric Company

CALVERT CLIFFS NUCLEAR POWER PLANT UNIT 1

Final Report

Reactor Containment Building
Integrated Leakage Rate Test

GENERAL PHYSICS CORPORATION

July 1992

CALVERT CLIFFS NUCLEAR POWER PLANT
BALTIMORE GAS AND ELECTRIC COMPANY
LUSBY, MARYLAND

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PERIODIC

REACTOR CONTAINMENT BUILDING

INTEGRATED LEAKAGE RATE TEST

UNIT 1

FINAL REPORT

GENERAL PHYSICS CORPORATION
JULY 1992

EXECUTIVE SUMMARY

A Primary Containment Building Integrated Leakage Rate Test (ILRT) was successfully completed at Calvert Cliffs Nuclear Power Plant - Unit 1 on July 5, 1992. The test was performed in accordance with site procedure STP-M-662-1. All acceptance criteria of the procedure were satisfied.

Listed below is the summary of the test results for mass point and total time data analysis. The actual measured leakage rate (Lam) and the 95% upper confidence limit (UCL) in units of weight percent per day are compared to the acceptance criteria.

Mass Point	Test Results	Acceptance Criteria
ILRT Lam	0.0771	N/A
ILRT UCL	0.0824	0.150
Verification Test Lc	0.2811	0.2269≤ Lc ≤0.3269
Total Time	**Test Results**	**Acceptance Criteria**
ILRT Lam	0.0573	N/A
ILRT UCL	0.0703	0.150
Verification Test Lc	0.2765	0.2072≤ Lc ≤0.3072

The total correction included in the above results for measured local leakage rates of penetrations not in the post LOCA lineup and volume changes during the ILRT was 0.001 %/day.

A chronological summary of events, summary of plant technical data, and discussion of test results are included in this report.

1.0 INTRODUCTION

This report presents data, analysis, and conclusions pertaining to the Calvert Cliffs Nuclear Power Plant Unit 1 Integrated Leakage Rate Test (ILRT) performed in July 1992. The Integrated Leakage Rate Test (Type A Test) is performed periodically to demonstrate that the combined leakage through the reactor containment building and those systems penetrating the containment does not exceed the allowable leakage rate specified in the Plant Technical Specifications.

The successful periodic Type A and supplemental verification tests were conducted according to the requirements of the Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 1 Technical Specifications and 10CFR50, Appendix J. The Calvert Cliffs ILRT is performed by the absolute method described in ANSI N45.4-1972, "Leakage Rate Testing of Containment Structures for Nuclear Reactors" and ANSI/ANS 56.8-1987, "Containment System Leakage Testing Requirements." The leakage rate was calculated using formulas from the above ANSI Standards. As a 24 hour ILRT was performed, the Type A and verification test durations were according to the criteria of 10CFR50 Appendix J, ANSI N45.4-1972, and ANSI/ANS 56.8-1987. All calculations were done with General Physics Corporation's ILRT Data Management computer program described in Appendix A.

The temperature and pressure history and the containment air mass variations for each phase of the test are graphed by the computer program, and are contained in Appendices to this report;

Appendix B, Stabilization Phase Data and Graphs

Appendix C, Hold Test (ILRT) Phase Calculations, Data and Graphs

Appendix D, Verification Test Phase Data and Graphs

2.0 TEST SYNOPSIS

2.1 TEST TIMELINE

The ensuing paragraphs describe the sequence of events leading up to, and including the successful completion of the Unit 1 ILRT on July 5, 1992. A summary of the test phases follows:

Test Phase	Time	Duration Hours	Date
Pressurization	1050-0715	20.50	July 3-4
Stabilization	0715-1315	6.00	July 4
ILRT	1330-1330	24.00	July 4-5
Verification Test	1345-1745	4.00	July 5
Total Test Sequence:		54.50	

2.2 TEST PREPARATION PHASE

Valve lineups were conducted on all systems to establish post-accident conditions, except for shutdown cooling, demineralized water, nitrogen supply to the safety injection tanks, and three penetrations necessary to conduct the ILRT. ILRT measurement system instrumentation was calibrated, installed, and in-situ checked prior to the ILRT. The inspection of the containment accessible interior and exterior surfaces was conducted prior to pressurization. No evidence of structural deterioration was noted which would have affected containment integrity or leak tightness.

2.3 PRESSURIZATION PHASE

Containment pressurization started at 1050 on July 3,1992. Two hours into pressurization two of the containment coolers tripped on overload. After inspecting the fan breakers, pressurization recommenced at 1545 on July 3, 1992 with the containment ventilation fans running in slow speed. The containment fans were run through the remainder of the pressurization phase without incident. At 10 psig and periodically thereafter, external penetration areas were checked for leakage. The containment ventilation fans were secured with the first two compressors at 45 psig at 0030 on July 4th, 1992. The remaining compressors were secured in stages until the last compressor was stopped at a test pressure of 50.61 psig at 0358 on July 4,1992. The pressurization line was isolated from containment and vented.

2.4 STABILIZATION PHASE

The stabilization period started at 0400 on July 4th. A test technician error in reading the pressure gauges and concerns that dropping temperature would drive pressure low out of the band caused the re-initiation of pressurizzation at 0700 for 15 minutes. An increase of 0.2 psig was noted, and the stabilization period was restarted at 0730 on July 4th.

The temperature stabilization criteria of Reference 5 was first satisfied during the four hour period from 0730 to 1130 on July 4th. Data scatter caused by the dewcells made selection of an appropriate start point for the test difficult, even though temperature stabilization criteria continued to be satisfied for the duration of the test. At 0915 on July 4th, precision pressure gauge #1 was determined to be sticking, and was deleted from the calculations by changing its weighting fraction to zero. The containment was declared stable at 1315 on July 4, 1992.

2.5 HOLD TEST PHASE

The ILRT test period began at 1330 on July 4. Test pressure was 50.6 psig. Containment pressure and temperature were measured at 15 minute intervals using precision devices. Pressurizer level was measured. The ILRT measurement period was completed at 1330 on July 5, after 24 hours of data had satisfied all leakage rate acceptance criteria.

The containment temperature stabilization criteria of ANSI 56.8-1987 was easily met early in the Stabilization Phase. However, throughout the ILRT temperatures in the dome and upper elevations continued to drop slowly, while temperatures in the lower elevations of the containment slowly increased. Overall average drybulb temperature increased 0.328°F in the first six hours of the hold test. From hour seven to approximately eleven hours into the test, the average temperature rate of increase slowed, leveled out and actually dropped 0.035°F. Average containment temperature then again began a slow increase for the next ten hours. Twenty one hours into the ILRT, temperature increases again diminished and turned.

Approximately three hours into the test, dewcell #2 failed high, and was deleted from the data sort and its volume fraction re-distributed among the remaining sensors. Dewcell #1 was also behaving erradically and was deleted from the data sort, and its volume fraction was re-distributed among the remaining sensors.

2.6 VERIFICATION TEST PHASE

The verification flow was initiated at 1330 on July 5th, 1992 by continuously venting 11.88 SCFM (approximately equivalent to L_a) of air from the containment through a flow meter. The new leakage rate calculated using 4 hours of data from 1345 to 1745 on July 5,1992 stabilized within the verification test acceptance criteria, and the ILRT was declared complete at 1745 on the 5th of July.

2.7 DEPRESSURIZATION PHASE

The containment was depressurized to atmospheric pressure. Systems were restored as required.

2.8 SUMMARY OF DELETED SENSORS

During the test cycle, sensors were deleted from the data sort by changing their volume weighting fraction to zero in the ILRT computer. Redistribution of deleted sensor volume fractions to remaining sensors was governed by a sensor failure analysis which had been developed a month earlier. The sensor failure analysis reassigned volume fractions based on an analysis of sensor placement and prior performance, and assured consistency in sensor fraction redistribution approach. The following sensors malfunctioned during the test. Graphs of their performance, tabulated sensor readings and program status screens are included in Appendix E.

Pressure Gauge #1

Pressure gauge was noted to be sticking early in the stabilization phase. Mass differentials and leakage rates were larger than expected for this phase of the test based on thorough walkdowns of the test boundaries. Comparison of the suspect Mensor gauge with the remaining Mensor, and two Paroscientific gauges installed as backups indicated that the servo motor mechanism was sticking. The suspect Mensor gauge's volume weighting fraction was changed to zero at 0915 (Stabilization Phase) on July 4th.

Dewcell #2

Dewcell #2 was located at approximately 119' elevation, and though unstable during the first few hours of stabilization, was no less stable than dewcell #1, also in the dome region. The 1515 reading indicated a sensor failure as the dewcell's reading climbed to 126.43 degrees fahrenheit, and remained there. The failed sensor was grounding out the ILRT panel's power supply to the remaining dewcells, so dewcell #2 was disconnected at the ILRT panel.

Dewcell #1

Dewcell #1 exhibited large, rapid temperature changes inconsistent with the stable conditions indicated by the other dewcells. Therefore, dewcell 1 was declared failed. Dewcell 1's volume fraction was reassigned to the dewcells 3,4,5 and 6. The reassigned volume fractions, listed in Table 1, were used to calculate the containment leakage during the entire test. Graphs of sensors are in Appendix E.

3.0 TEST DATA SUMMARY

3.1 Plant Information

Owner ..... Baltimore Gas and Electric Company

Plant ..... Calvert Cliffs Nuclear Power Plant

Location ..... Lusby, Maryland

Containment Type ..... Post-tensioned concrete

Date Test Completed ..... July 5,1992

Docket Number 50-317

3.2 Technical Data

A. Containment Net Free Air Volume ..... 2,000,000 cu ft

B. Design Pressure ..... 50 psig

C. Design Temperature ..... 276 F

D. Peak Accident Pressure, Pa ..... 50 psig

E. Containment ILRT Average Temperature Limits ..... 60-120 F

3.3 Test Results - Type A Test

A. Test Method ..... Absolute

B. Data Analysis Technique ..... Mass Point per ANSI/ANS 56.8-1987

C. Test Pressure ..... 50.6 psig

D. Maximum Allowable Leakage Rate, La ..... 0.200 %/day

E. 75% of La ..... 0.150 %/day

F. Integrated Leakage Rate Test Results

	Leakage Rate	UCL*
Mass Point Analysis	0.0771 %/day	0.0814 %/day
Total Time Analysis	0.0573 %/day	0.0693 %/day
* UCL = 95% Upper Confidence Level (does not include penalties or additions)		

G. Imposed Verification Leakage Rate ..... 0.199 %/day (11.88 SCFM)

H. Mass Point Verification Test Results

	Leakage Rate
Mass Point Analysis Lower Limit*	0.2269 %/day
Mass Point Analysis Composite Leak	0.2811 %/day
Mass Point Analysis Upper Limit*	0.3269 %/day

I. Total Time Verification Test Results

	Leakage Rate
Total Time Analysis Lower Limit*	0.2072 %/day
Total Time Analysis Composite Leak	0.2765 %/day
Total Time Analysis Upper Limit*	0.3072 %/day
* Upper Limit = Lo+Lam+0.25La, Lower Limit = Lo+Lam-0.25La	

J. Report Printouts

The report printouts and data plots for the ILRT and verification test calculations provided in Appendices B-F.

K. Containment Water Level Changes

	Change	Correction
Pressurizer Level	Decreased	0.000 %/day
RCDT Level	none	0.000 %/day
Quench Tank Level	none	0.000 %/day
Containment Sump	none	0.000 %/day
Total		0.000 %/day

L. Penetrations not in post LOCA alignment during ILRT

Penetration	System	Leakage Rate
7A	ILRT sensor connection	6 SCCM
7B	ILRT sensor connection	20 SCCM
50	ILRT pressurization	6 SCCM
20A	Nitrogen to SI Tanks	40 SCCM
41	Shutdown cooling	1133 SCCM
38	Demineralized Water	44 SCCM
Total		1249 SCCM
		0.001 %/day

3.4 Test Results - Type B and C

LLRT Maximum Path Leakage			
Outage Date	As Found	As Left	Acceptance Criteria
1989 -1990	301,749 SCCM	42,438 SCCM	0.6 La = 207,700 SCCM
1991	50,865 SCCM	38,352 SCCM	0.6 La = 207,700 SCCM
1992	264,494 SCCM	39,189 SCCM	0.5 La = 173,083 SCCM*

*The acceptance criteria for 1992 was reduced to 0.5 La based on a 24 month fuel cycle. Local leakage rate test results are provided in Appendix H.

3.5 Integrated Leakage Rate Measurement System

Instrument	Description		Data
(number of sensors used during the test)			
1. Absolute Pressure (1)	Mensor Quartz Pressure Gage Model 10100	Range: Accuracy: Sensitivity: Repeatability: Calibration Date:	100 psia 0.015% reading 0.001 psia 0.001 psia 7/1/92
2. Drybulb Temperature (18)	100 ohm Platinum RTD Volumetrics Part VSTD-347	Range: Accuracy: Sensitivity: Repeatability: Calibration Date:	60-120 °F 0.50 °F 0.01 °F 0.01 °F 6/19/92
3. Dewpoint Temperature (4)	EG&G Model No. 660	Range: Accuracy: Sensitivity: Repeatability: Calibration Date:	40-100 °F 0.54 °F 0.10 °F 0.01 °F 4/14/92
4. Flow Meter (1)	Thermal Mass	Range: Accuracy: Sensitivity: Resolution: Calibration Date:	0-20 scfm 1% full scale 1% full scale 0.01 scfm 7/1/92

Drybulb and dewpoint temperature sensor locations and volume fractions are provided in Table 1.

Instrument Selection Guide (ISG) calculated per ANSI/ANS 56.8, Appendix G, for the twenty four hour test is 0.004 %/day. The calculation is provided in Appendix G of this report.

4.0 ANALYSIS AND INTERPRETATION

No data rejection criterion was used during the PCILRT. No data points were rejected, however, there were three instruments deleted from the data sort (1 pressure gauge and 2 dewcells).

The general guidelines to identify failed sensors are as follows:

Changes in containment mass, and the parameter averages that are part of the mass calculation are monitored (the current point is compared to the last point). Changes in mass values larger than L_a key test personnel to select the sensor differential screen which narrows the mass change to a particular sensor or group of sensors. Graphs of each individual sensor vs time are then inspected for anomalous trends, and printed out for analysis (see Appendix E). The trend of each sensor should be similar to the other sensors in the same region of the containment. Significant deviations of sensor readings not exhibited by other sensors in the same region (greater than twice the instrument accuracy) may indicate a failed sensor. The PCILRT Data Analysis program used also applied gross failure criteria to incoming data streams, and immediately identifies potentially failed instruments. During the test, pressure gauge #1 was judged to be "sticking" and was assigned a volume weighting fraction of zero. Dewcell #2 failed to 126°F and was declared failed. Dewcell #1 experienced large flucuations in its readings, and was deleted from the data sort. Final test results were reported with the two dewcells and the one pressure gauge deleted from the calculations.

4.1 ILRT TEST CORRECTIONS

During the ILRT, six penetrations were not in their post-LOCA alignment. A correction based on the total minimum pathway Local Leakage Rate Test results (1249 SCCM) for these penetrations, 0.001 percent per day, is added to the ILRT results at the 95%UCL. No correction for containment volume changes was needed.

The total leakage rate correction for penetrations not on post-LOCA alignment and containment free air volume changes is 0.001 percent per day.

4.2 "ADJUSTED" LEAKAGE RATE

The calculated leakage rate during the ILRT were 0.0771 %/day (mass point) and 0.0573 %/day (total time). The calculated 95% upper confidence levels were 0.0814 %/day (mass point) and 0.0693 %/day (total time). Adding the total leakage rate corrections for penetrations not in post-LOCA alignment and containment water level changes yields the corrected leakage rates as follows:

Leakage Rates, %/day				
	Mass Point		Total Time	
	Leakage Rate	UCL	Leakage Rate	UCL
Calculated	0.0771	0.0814	0.0573	0.0693
Corrections	N/A	0.001	N/A	0.001
Corrected	N/A	0.0824	N/A	0.0703

Since the corrected 95% upper confidence levels for both mass point and total time are less than .75 La (0.150 %/day), the test results demonstrate the leakage through the primary containment and systems and components penetrating primary containment do not exceed the allowable leakage rates specified in the Calvert Cliffs Nuclear Power Plant FSAR and Unit 1 Technical Specifications.

4.3 END OF CYCLE LEAKAGE RATE

Repairs and adjustments were made to various penetrations during the outage. These repairs resulted in an improvement to the overall performance of the containment totalling 123,236 sccm, or 0.07321 %wt/day. The "End of Cycle" Leakage - The leakage rate determined by adding minimum pathway leakage improvements to the "as-left" test results was determined to be 0.1564 %wt/day, which is well below the technical specification's maximum allowable limit of .2 %wt/day. This leakage rate is a rough estimate of what leakage might have been if the ILRT had been performed immediately after shutdown. This calculation is described in Information Notice 85-71. This value is reported without using it as a test limit.

5.0 REFERENCES

1. Calvert Cliffs Nuclear Power Plant, Technical Specifications.

2. Calvert Cliffs Nuclear Power Plant Procedure STP-M-662-1, Revision 3, Integrated Leakage Rate Test.

3. Code of Federal Regulations, Title 10, Part 50 Appendix J, Primary Reactor Containment Leakage Rate Testing for Water Cooled Power Reactors.

4. ANSI/ANS 45.4-1972, Leakage Rate Testing of Containment Structures for Water Cooled Power Reactors.

5. ANSI/ANS 56.8-1987, Containment System Leakage Testing Requirements.

TABLE 1

DRYBULB AND DEWPOINT TEMPERATURE SENSOR LOCATIONS

DRYBULB

Sensor No	Sensor Serial No.	Elevation (ft)	Azimuth (degrees)	Distance From Center (ft)	Volume Fractions Original
1	OTE5500	175	0	0	0.081
2	OTE5501	160	180	33	0.081
3	OTE5502	145	0	33	0.081
4	OTE5503	130	90	48	0.073
5	OTE5508	115	0	0	0.073
6	OTE5511	50	230	50	0.021
7	OTE5513	104	180	32	0.073
8	OTE5504	104	0	30	0.073
9	OTE5505	75	20	48	0.058
10	OTE5506	65	0	0	0.042
11	OTE5517	16	180	45	0.044
12	OTE5507	50	140	44	0.044
13	OTE5509	50	85	40	0.022
14	OTE5510	50	320	50	0.044
15	OTE5512	75	220	44	0.058
16	OTE5514	16	80	50	0.044
17	OTE5515	16	0	48	0.044
18	OTE5516	16	270	25	0.044
					1.000

DEWPOINT

Sensor	Sensor Serial No.	Elevation (ft)	Azimuth (degrees)	Distance From Center (ft)	Volume Fractions Original	Volume Fractions Reassigned
1*	OAE5518	154	0	33	0.231	0.000
2*	OAE5519	119	180	33	0.231	0.000
3	OAE5520	75	350	48	0.231	0.346
4	OAE5521	50	320	40	0.131	0.247
5	OAE5522	16	0	30	0.088	0.204
6	OAE5523	16	180	45	0.088 1.000	0.203 1.000
	* Failed sensor, not used for leakage rate calculations.					

APPENDIX A

GENERAL PHYSICS CORPORATION
ILRT DATA MANAGEMENT PROGRAM

SUMMARY

GENERAL PHYSICS CORPORATION
ILRT DATA MANAGEMENT PROGRAM

A. Redundancy

The General Physics ILRT team was equipped with two fully operational IBM compatible microcomputers during the ILRT which were used for data reduction and analysis. The computer software and hardware interfaced directly with the Volumetrics A-100 Data Acquisition System.

Two computers, monitors, and printers were brought on site for 100% redundancy, as each computer and its software was capable of independently performing the ILRT. Throughout the ILRT one computer was connected to the data acquisition unit, while the other computer was used as a back-up (unaffected by any potential data transmission problems), with the test data transferred via floppy disk. All initial changes to sensor volume weighting factors, test troubleshooting, graphics printing or program demonstrations are run on the back-up unit. During the test the back-up machine also ran the data with General Physics Corporation's Paroscientific precision pressure gauges, as an installed back-up to the plant's Mensor gauges.

The General Physics ILRT Data Management Software was also capable of accepting manual input of raw sensor data and performing all required sensor data conversions if the data logger had ceased to function. Each computer was be equipped with back-up discs had the unlikely event of a disc "crash" occurred.

The General Physics ILRT Data Management Computer Program is written in BASIC. BASIC is a high level programming language which combines programming ease with user oriented command functions to create an easy to use and understand program. In order to increase speed of operation the program was then compiled into an executable command file. Compiling was accomplished using the Quick Basic Compiler.

B. Security

In addition to execution speed, compiling has the added benefit of making the program more secure as compiled programs cannot be edited or changed. Also, as the program does not need to be attended to operate, a password is required to change modes of operation, start times or to enter the data editing routine. The data editing routine itself is purposely designed to be extremely user un-friendly and implementable only by the General Physics programmers as General Physics believes that the integrity of the raw data files is paramount.

C. Features

The program itself is designed to be a menu driven program consisting of seven separate, menu driven operating modes. These are the:

(1) Installation Mode

(2) Pressurization Mode

(3) Stabilization Mode

(4) Test Mode

(5) Verification Mode

(6) Depressurization Mode

These modes also correspond to the phases of the ILRT. Menu driven means that the user is presented with a list of options that the program can perform and from which the user can choose. It allows for interactive information exchange between the user and the computer and prevents invalid information or user mistakes from crashing the program. Program organization consists of a master menu which controls access to the six operating modes chained to the individual menus which control these modes. The data processing, information display capabilities and function of each mode is as follows:

(1) Installation Mode: Used to install the volume weighting factors for RTD's, moisture sensors, and pressure gauges; to select the appropriate program procedures for data handling based on sensor and datalogger types, install constants such as plant name, unit, volume, La value, number of sensors; to create and label the data files for modes 2 through 6 (above), to enter names of test directors, computer operators, and date of file origination.

(2) Pressurization Mode: All data reduction, graphic displays of average temperature, dewpoint, and corrected pressure.

(3) Stabilization Mode: All data reduction, automatic comparison of data against ANSI 56.8 and BN-TOP-1 temperature stabilization criteria, notification when criteria is met, calculation of mass point and total time leakage rates, graphic displays of leakage rate, mass, differential mass, average temperature, dewpoint, individual sensors and corrected pressure.

(4) Test Mode: All data reduction, calculation of leakage rates using mass point, and total time analysis techniques, display of trend report information required by BN-TOP-1, graphic display of average temperature, dewpoint, pressure and mass, sensor differentials, individual sensor performance, as well as graphic display of mass point measured leakage, 95% UCL; total time measured and calculated leakage and the total time leakage rate at the 95% UCL (as calculated by BN-TOP-1), including a superimposed acceptance criteria line.

(5) Verification Test Mode: With input of imposed leakage in SCFM automatically calculates and displays on graph, status screen and trend report the acceptance criteria band, plus all graphics displays available in test mode.

(6) Depressurization Mode: All data and graphics capabilities of Pressurization Mode. In programs for BWR units, this mode also includes a Drywell to Suppression Chamber Bypass Test routine.

Other reduction and analysis capabilities of the General Physics ILRT computer program include:

(1) Containment total pressure conversion from counts to psia (if required), and averaging.

(2) Containment drybulb temperature weighted averaging and conversion to absolute units.

(3) Containment dewpoint temperature weighted averaging (using Foxboro dewcells, chilled mirrors or Physchem sensors) and conversion to partial pressure of water vapor (psia).

(4) Data storage of ILRT measurement system inputs for each data point.

(5) Weight (mass) point calculations using the ideal gas law.

(6) Automated Data Acquisition and/or Manual Data Entry.

(7) Sensor performance and deviation information for sensor failure criteria, graphic display of individual sensor performance for selected operating mode.

(8) Calculation of ISG formula at beginning of test; acceptance criteria based on number of sensors remaining and actual test duration.

(9) Computer System Error Functions automatically checks for error in incoming data, printer or disk drive faults.

D. Computer Program Certification

The computer program used by General Physics has been previously certified for six tests at the San Onofre Nuclear Generating Station and over a dozen other ILRTs.

The initial certification required verification of the program through hand calculations and an independent review by Bechtel Power Corporation. After certification was completed a calibration set of raw data was established from the data used to verify software of the program prior to usage. In 1991, Release 2 of the program incorporated the volume weighting factor calculational methodology of ANSI 56.8-1987 (updating it from the 1981 standard's recommendations), and the program was recertified via hand calcualations and independent review.

Additionally, for each application, sample data is entered to verify agreement with hand-calculated results to further verify performance, as configured for the particular plant application, by obtaining acceptable agreement between the results within limits of truncation and round-off error.

Once the computer is linked to the data acquisition device and a complete data stream is available, the input function of the program is verified by comparing the data logger's output to the computer's printed data point summary.

General Physics also provides printouts of the installed constants for the test such as:

(1) Volume fractions for ILRT Measurement System sensors

(2) Installed Calibration Constants

APPENDIX B

STABILIZATION PHASE DATA AND GRAPHS

STABLIZATION MODE
OPTIONS

TIME : 1330
MODE SUMMARY

2 - MANUAL DATA ENTRY
3 - PARAMATER GRAPHS
3 - SENSOR PLOTS
4 - SENSOR DIFFERENTIALS
5 - ANSI STABILIZATION CRITERIA
6 - BN-TOP-1 STAB.CRITERIA
7 - ANSI CRITERIA PRINTOUT
8 - BN-TOP-1 CRITERIA PRINTOUT
9 - REPRINT CURRENT DATA POINT
P - PASS WORD MENU
O - FLASH OFF

OF DATA POINTS = 25
MODE DURATION (IN HRS) = 6.00
TOT TIME MEASURED LEAK = 0.2760
TOT TIME CALCULATED LEAK = 0.2254
TOT TIME 95% UCL = 0.3281
MASS PT LEAK = 0.2548
MASS PT 95% UCL = 0.2649

ANSI TEMPERATURE STABLIZATION CRITERIA MET
BN-TOP TEMPERATURE STABLIZATION CRITERIA MET

POINT SUMMARY: CURRENT VALUE/DIFFERENCE FROM PREVIOUS POINT

AVG TEMP: 83.767/ +0.007
MASS: 643544.25/ +0.375
AVG PRESS: 64.784/ +0.001
AVG DEW PRESS: 0.3885/+0.0001
TOTAL PRESS: 65.173/ +0.001

STABLE MODE
Page 1

AVERAGE DATA VALUES

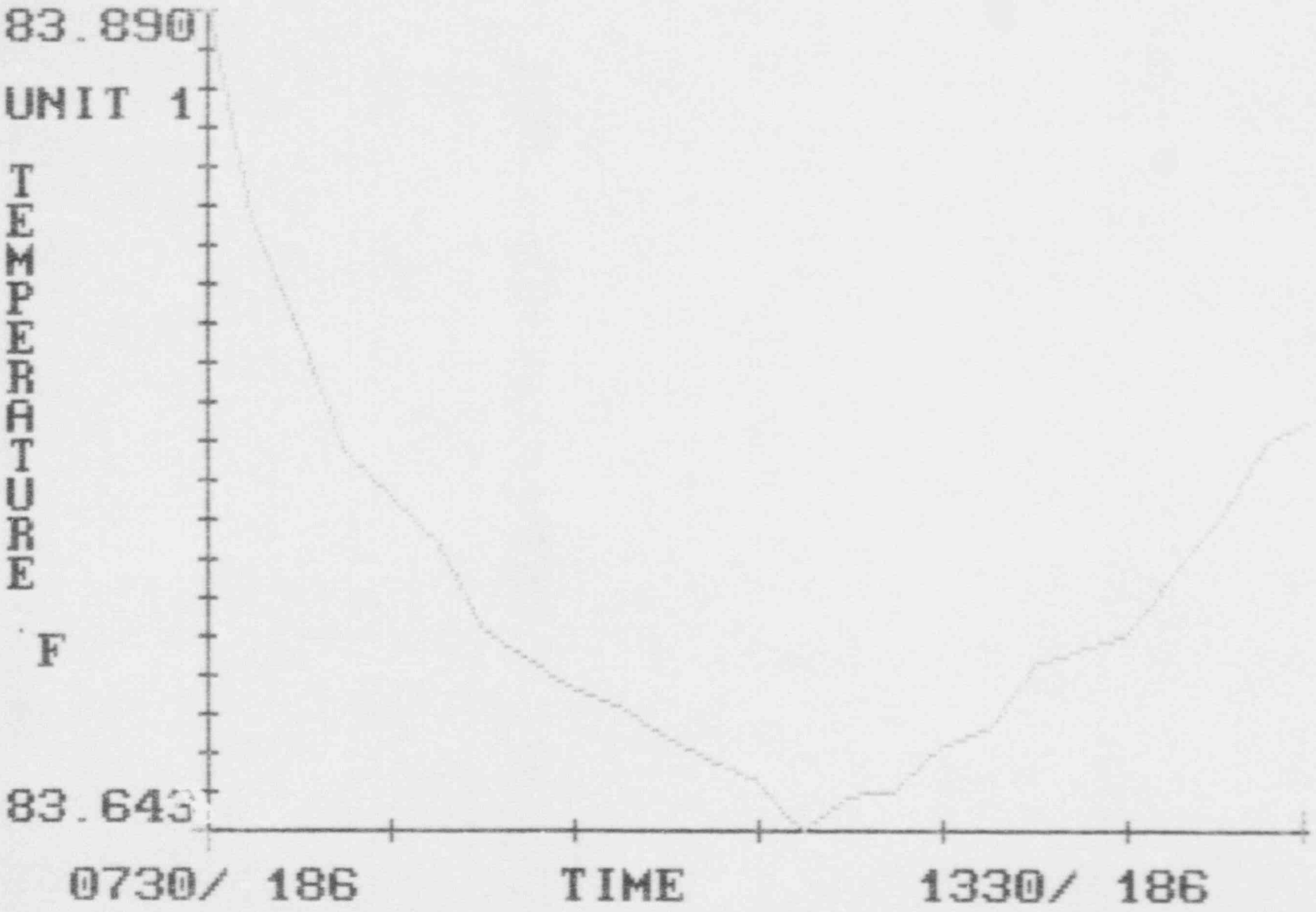
DATE	TIME	RTD	DEW PT.	VAP PRESS	DRY PRESS	MASS
186	0.00	83.890	71.040	0.376	64.844	643988.63
186	0.25	83.827	71.109	0.377	64.833	643957.38
186	0.50	83.795	71.195	0.378	64.825	643916.00
186	0.75	83.760	71.193	0.378	64.820	643909.19
186	1.00	83.747	71.193	0.378	64.816	643885.50
186	1.25	83.732	71.288	0.379	64.811	643853.38
186	1.50	83.704	71.303	0.379	64.808	643852.88
186	1.75	83.696	71.280	0.379	64.805	643837.88
186	2.00	83.689	71.337	0.380	64.803	643820.63
186	2.25	83.682	71.339	0.380	64.799	643789.63
186	2.50	83.673	71.412	0.381	64.797	643781.31
186	2.75	83.667	71.379	0.380	64.796	643782.88
186	3.00	83.660	71.438	0.381	64.794	643764.13
186	3.25	83.653	71.410	0.381	64.792	643767.81
186	3.50	83.654	71.469	0.382	64.789	643728.19
186	3.75	83.656	71.453	0.381	64.790	643727.81
186	4.00	83.668	71.502	0.382	64.788	643697.19
186	4.25	83.674	71.569	0.383	64.787	643681.63
186	4.50	83.693	71.636	0.384	64.786	643650.38
186	4.75	83.698	71.669	0.384	64.786	643640.88
186	5.00	83.702	71.702	0.385	64.785	643631.13
186	5.25	83.722	71.751	0.385	64.786	643611.13
186	5.50	83.737	71.896	0.387	64.785	643583.88
186	5.75	83.760	71.997	0.388	64.783	643543.88
186	6.00	83.767	72.008	0.389	64.784	643544.31

STABILIZATION ANSI56.8

TIME	TEMP	56.8 1 HR F/HR	56.8 4 HR F/HR	4-1 HR
6.00	83.767	0.064	0.020	-0.045
5.75	83.760	0.062	0.016	-0.046
5.50	83.737	0.044	0.008	-0.036
5.25	83.722	0.048	0.002	-0.045
5.00	83.702	0.034	0.011	-0.023
4.75	83.698	0.042	0.016	-0.026
4.50	83.693	0.039	0.025	-0.014
4.25	83.674	0.031	0.038	0.007
4.00	83.668	0.009	0.055	0.047
3.75	83.656	0.011	0.000	-0.011
3.50	83.654	0.019	0.000	-0.019
3.25	83.643	0.038	0.000	-0.038
3.00	83.660	0.029	0.000	-0.029
2.75	83.667	0.030	0.000	-0.030
2.50	83.673	0.033	0.000	-0.033
2.25	83.682	0.050	0.000	-0.050
2.00	83.689	0.059	0.000	-0.059
1.75	83.696	0.064	0.000	-0.064
1.50	83.706	0.089	0.000	-0.089
1.25	83.732	0.095	0.000	-0.095
1.00	83.747	0.142	0.000	-0.142
0.75	83.760	0.000	0.000	0.000
0.50	83.795	0.000	0.000	0.000
0.25	83.827	0.000	0.000	0.000

BN-TOP-1 STABLIZATION CRITERIA

TIME	TEMP	BN dT	BN dT2
6.00	83.7666	0.0491	-0.0113
5.75	83.7600	0.0520	0.0410
5.50	83.7374	0.0417	0.0094
5.25	83.7220	0.0394	0.0721
5.00	83.7024	0.0213	0.0234
4.75	83.6976	0.0155	0.0208
4.50	83.6932	0.0103	0.0560
4.25	83.6742	-0.0037	0.0256
4.00	83.6684	-0.0101	0.0403
3.75	83.6560	-0.0202	0.0232
3.50	83.6539	-0.0260	0.0727
3.25	83.6433	-0.0442	-0.0012
3.00	83.6[illegible]	-0.0439	0.0118
2.75	83.6666	-0.0468	0.0577
2.50	83.6727	-0.0613	0.0455
2.25	83.6[illegible]	-0.0726	0.1118
2.00	83.6[illegible]	-0.1006	0.0000
1.75	83.6964	0.0000	0.0000
1.50	83.7059	0.0000	0.0000
1.25	83.7316	0.0000	0.0000
1.00	83.7475	0.0000	0.0000
0.75	83.7603	0.0000	0.0000
0.50	83.7952	0.0000	0.0000
0.25	83.8269	0.0000	0.0000
0.00	83.8897	0.0000	0.0000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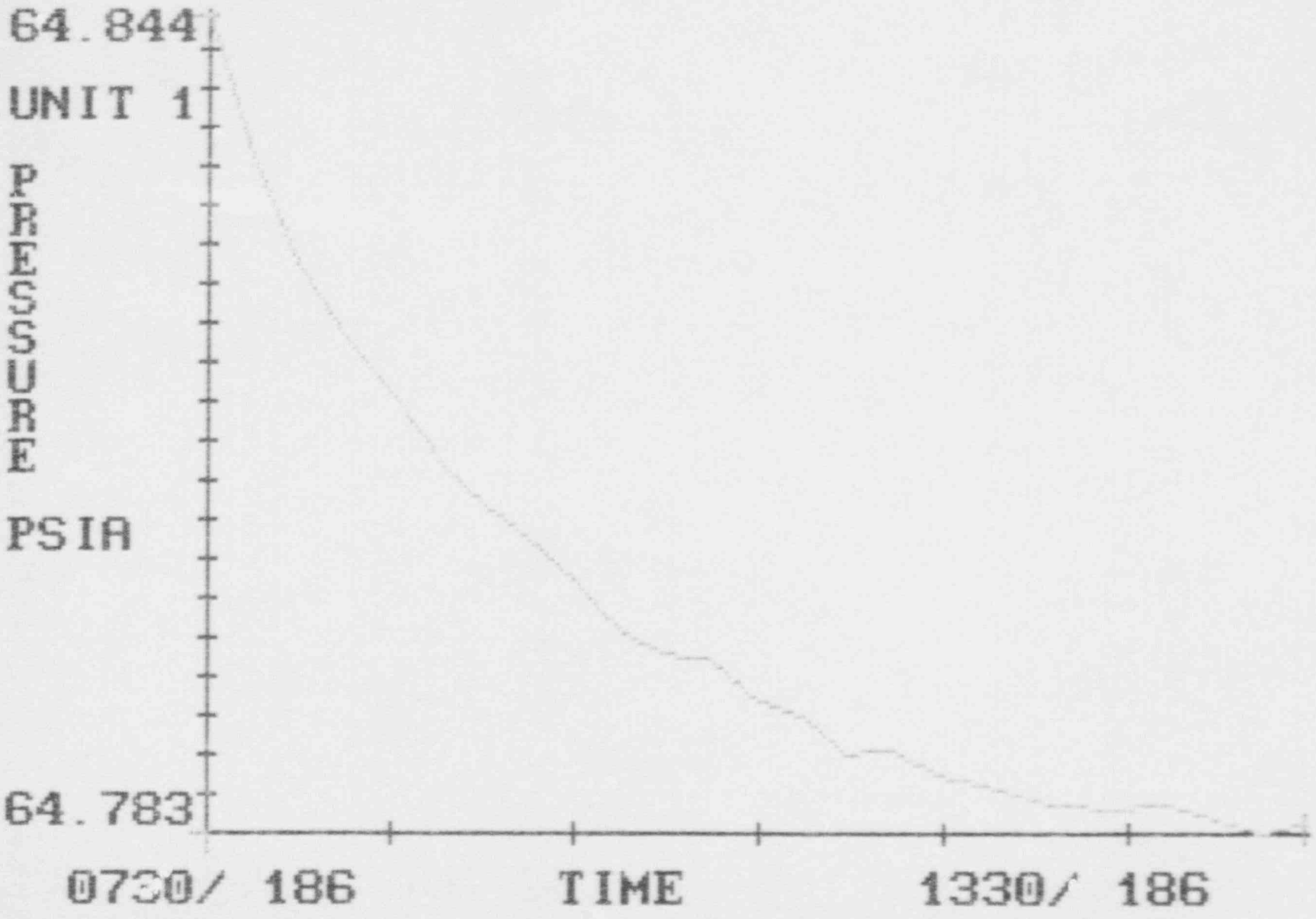
TIME
1330/ 186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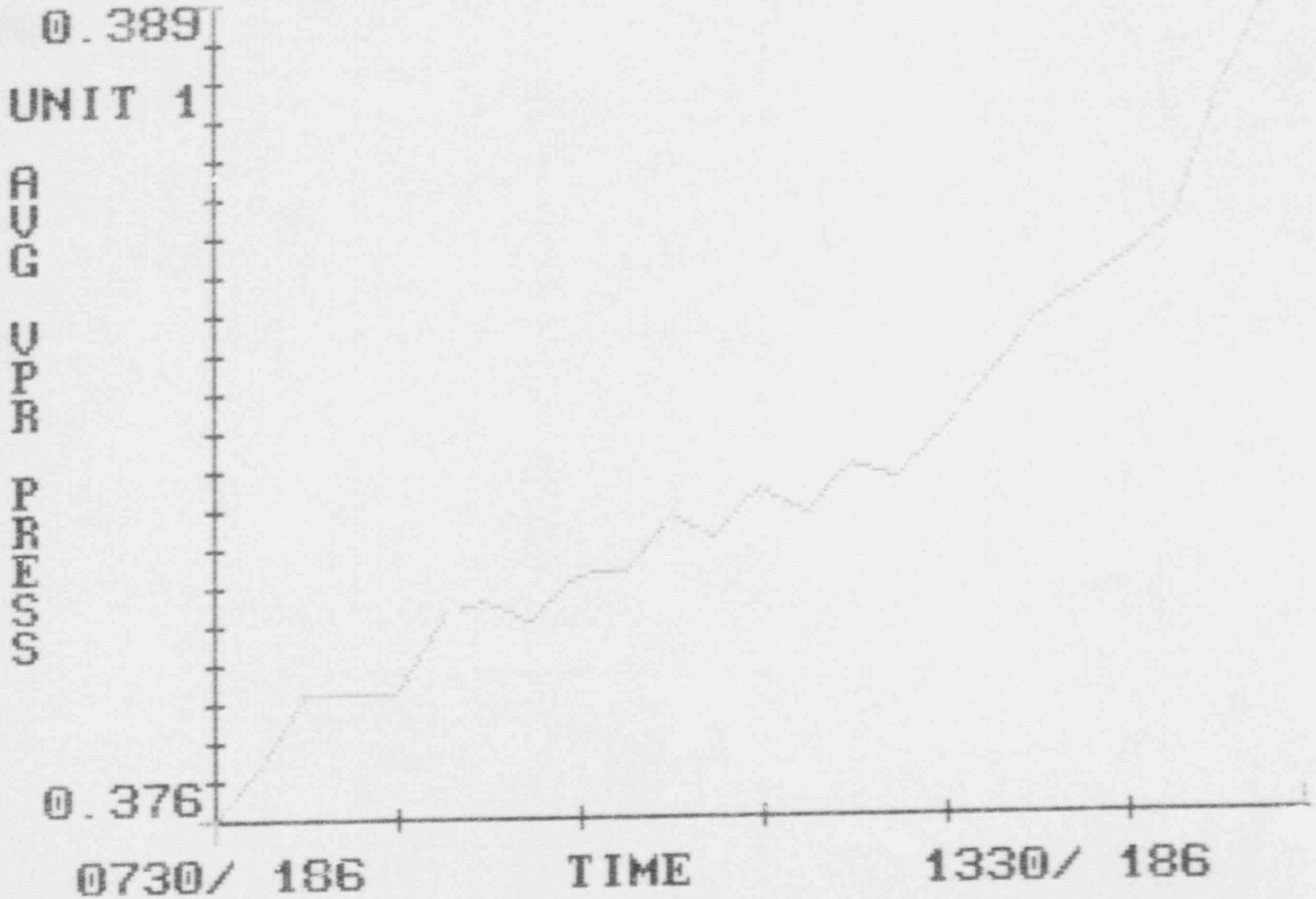
TIME
1330/ 186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0730/ 186
TIME
1330/ 186

APPENDIX C

HOLD TEST (ILRT) PHASE
CALCULATIONS, DATA AND GRAPHS

TEST MODE

PLEASE SELECT THE OPTION
I WISH TO USE:

1 - MANUAL DATA ENTRY
2 - PARAMETER GRAPHS
3 - SENSOR PLOTS
4 - TREND ANALYSIS
5 - REPRINT CURRENT DATA PT
6 - SENSOR DIFFERENTIALS

P - PASS WORD MENU

SELECTED OPTION=

TEST DATA 1330

# OF DATA POINTS	= 95
MODE DURATION (IN HOURS)	= 24.00
TOT TIME MEASURED LEAK	= 0.0892
TOT TIME CALCULATED LEAK	= 0.0573
TOT TIME 95% UCL	= 0.0693
MASS POINT LEAK	= 0.0771
MASS POINT 95% UCL	= 0.0814
75% La	= .15
MASS	= 642970.50

POINT SUMMARY: CURRENT VALUE/DIFFERENCE FROM PREVIOUS POINT

AVG TEMP:	84.566 / +0.014	AVG PRESS:	64.822 / +0.000
MASS:	642970.50 / -13.188	AVG DEW PRESS:	0.4117 / +0.0006
		TOTAL PRESS:	65.233 / +0.001

TEST MODE
Page 1

AVERAGE DATA VALUES

DATE	TIME	RTD	DEW PT.	VAP PRESS	DRY PRESS	MASS
186	0.00	83.767	72.008	0.389	64.784	643544.31
186	0.25	83.786	72.174	0.391	64.783	643509.38
186	0.50	83.796	72.188	0.391	64.785	643514.63
186	0.75	83.822	72.230	0.391	64.785	643488.63
186	1.00	83.827	72.328	0.393	64.785	643479.31
186	1.25	83.842	72.447	0.394	64.784	643455.13
186	1.50	83.860	72.529	0.395	64.784	643432.63
186	1.75	83.874	72.605	0.396	64.785	643425.88
186	2.00	83.895	72.666	0.397	64.785	643402.13
186	2.25	83.912	72.753	0.398	64.785	643381.13
186	2.50	83.923	72.839	0.400	64.785	643366.31
186	3.33	83.949	72.998	0.402	64.786	643342.31
186	3.48	83.959	73.009	0.402	64.786	643329.31
186	3.73	83.978	73.057	0.403	64.787	643320.50
186	4.00	84.004	73.111	0.403	64.787	643292.00
186	4.25	84.017	73.171	0.404	64.788	643287.63
186	4.50	84.025	73.244	0.405	64.788	643278.38
186	4.75	84.027	73.209	0.405	64.789	643280.38
186	5.00	84.048	73.304	0.406	64.787	643242.88
186	5.25	84.055	73.352	0.407	64.788	643236.88
186	5.50	84.070	73.385	0.407	64.788	643224.38
186	5.75	84.081	73.406	0.407	64.789	643219.31
186	6.00	84.095	73.415	0.407	64.790	643210.13
186	6.25	84.101	73.486	0.408	64.790	643203.50
186	6.50	84.108	73.516	0.409	64.789	643190.88
186	6.75	84.114	73.556	0.409	64.790	643188.63
186	7.00	84.134	73.591	0.410	64.790	643165.81
186	7.25	84.139	73.614	0.410	64.791	643170.38
186	7.50	84.147	73.598	0.410	64.791	643162.63
186	7.75	84.138	73.647	0.411	64.790	643166.88
186	8.00	84.143	73.654	0.411	64.790	643159.69
186	8.25	84.126	73.618	0.410	64.791	643185.00
186	8.50	84.124	73.599	0.410	64.791	643189.81
186	8.75	84.122	73.658	0.411	64.790	643184.13
186	9.00	84.113	73.653	0.411	64.788	643176.13
186	9.25	84.105	73.578	0.410	64.789	643186.81
186	9.50	84.103	73.579	0.410	64.788	643178.81
186	9.75	84.106	73.506	0.409	64.788	643177.13
186	10.00	84.099	73.519	0.409	64.786	643172.38
186	10.25	84.108	73.472	0.408	64.787	643167.88

AVERAGE DATA VALUES

DATE	TIME	RTD	DEW PT.	VAP PRESS	DRY PRESS	MASS
187	10.50	84.099	73.462	0.408	64.786	643169.88
187	10.75	84.117	73.364	0.407	64.788	643162.31
187	11.00	84.106	73.351	0.407	64.787	643167.81
187	11.25	84.089	73.223	0.405	64.788	643195.31
187	11.50	84.100	73.197	0.404	64.788	643185.88
187	11.75	84.121	73.236	0.405	64.787	643155.50
187	12.00	84.129	73.266	0.405	64.788	643151.63
187	12.25	84.152	73.343	0.406	64.789	643133.50
187	12.50	84.160	73.349	0.407	64.790	643133.13
187	12.75	84.171	73.392	0.407	64.790	643124.38
187	13.00	84.175	73.387	0.407	64.790	643120.00
187	13.25	84.183	73.372	0.407	64.791	643122.63
187	13.50	84.207	73.454	0.408	64.791	643091.81
187	13.75	84.200	73.479	0.408	64.791	643097.00
187	14.00	84.195	73.466	0.408	64.791	643104.31
187	14.25	84.207	73.420	0.407	64.792	643096.81
187	14.50	84.219	73.453	0.408	64.793	643098.13
187	14.75	84.240	73.415	0.407	64.794	643077.38
187	15.00	84.246	73.483	0.408	64.795	643081.31
187	15.25	84.264	73.473	0.408	64.797	643080.13
187	15.50	84.269	73.528	0.409	64.797	643076.50
187	15.75	84.280	73.534	0.409	64.798	643072.50
187	16.00	84.285	73.563	0.409	64.798	643072.63
187	16.25	84.303	73.535	0.409	64.800	643064.81
187	16.50	84.320	73.604	0.410	64.801	643054.31
187	16.75	84.336	73.670	0.411	64.802	643045.50
187	17.00	84.347	73.644	0.411	64.803	643045.69
187	17.25	84.359	73.688	0.411	64.804	643035.50
187	17.50	84.381	73.708	0.411	64.805	643026.81
187	17.75	84.381	73.723	0.412	64.805	643023.69
187	18.00	84.394	73.765	0.412	64.806	643022.81
187	18.25	84.414	73.763	0.412	64.807	643008.38
187	18.50	84.415	73.796	0.413	64.808	643012.31
187	18.75	84.434	73.830	0.413	64.809	643004.69
187	19.00	84.453	73.856	0.413	64.810	642988.38
187	19.25	84.451	73.891	0.414	64.811	642995.69
187	19.50	84.476	73.888	0.414	64.812	642976.88
187	19.75	84.491	73.903	0.414	64.813	642976.50
187	20.00	84.507	73.889	0.414	64.814	642968.81
187	20.25	84.508	73.967	0.415	64.814	642966.81

AVERAGE DATA VALUES

DATE	TIME	RTD	DEW PT.	VAP PRESS	DRY PRESS	MASS
187	20.50	84.521	73.954	0.415	64.816	642963.31
187	20.75	84.534	73.988	0.415	64.816	642952.13
187	21.00	84.535	73.980	0.415	64.816	642952.00
187	21.25	84.547	73.994	0.415	64.816	642936.13
187	21.50	84.553	74.011	0.416	64.816	642926.69
187	21.75	84.540	74.017	0.416	64.817	642950.88
187	22.00	84.536	73.959	0.415	64.817	642963.81
187	22.25	84.522	73.986	0.415	64.817	642976.13
187	22.50	84.512	73.860	0.414	64.817	642986.69
187	22.75	84.510	73.828	0.413	64.816	642983.81
187	23.00	84.503	73.773	0.412	64.816	642989.31
187	23.25	84.501	73.656	0.411	64.818	643007.31
187	23.50	84.536	73.696	0.411	64.819	642980.69
187	23.75	84.551	73.680	0.411	64.821	642983.69
187	24.00	84.566	73.725	0.412	64.822	642970.50

LEAKAGE RATE SUMMARY UNIT 1

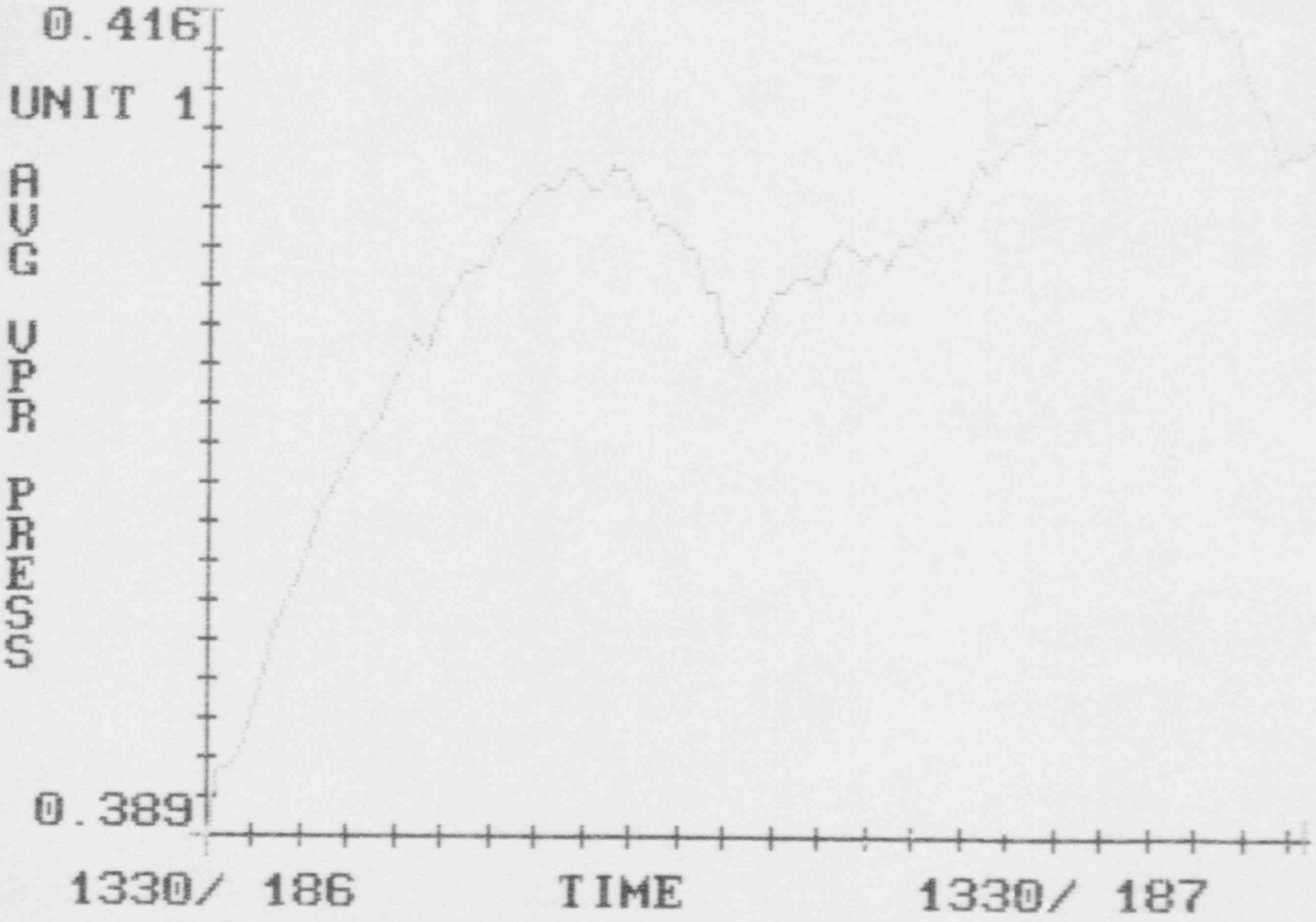
		TOTAL TIME			MASS/POINT	
DATE	TIME	TTLM	LMCALC	SL	LAM	L95
186	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
186	0.25	0.5193	0.0000	0.0000	0.0000	0.0000
186	0.50	0.2218	0.2218	0.0000	0.2[illegible]5	1.6940
186	0.75	0.2770	0.2182	1.6131	0.2409	0.4698
186	1.00	0.2423	0.1987	0.7828	0.2244	0.3325
186	1.25	0.2658	0.2079	0.6292	0.2387	0.3053
186	1.50	0.2777	0.2213	0.5670	0.2551	0.3032
186	1.75	0.2523	0.2187	0.5086	0.2486	0.2839
186	2.00	0.2651	0.2234	0.4804	0.2519	0.2790
186	2.25	0.2704	0.2293	0.4629	0.2575	0.2794
186	2.50	0.2656	0.2322	0.4466	0.2592	0.2769
186	3.33	0.2259	0.2079	0.4155	0.2378	0.2587
186	3.48	0.2302	0.2115	0.3988	0.2306	0.2488
186	3.73	0.2236	0.2087	0.3826	0.2240	0.2405
186	4.00	0.2352	0.2091	0.3735	0.2241	0.2383
186	4.25	0.2253	0.2072	0.362[illegible]	0.2213	0.2339
186	4.50	0.2203	0.2046	0.3528	0.2178	0.2294
186	4.75	0.2072	0.1998	0.3413	0.2116	0.2236
186	5.00	0.2247	0.1993	0.3359	0.2119	0.2227
186	5.25	0.2183	0.1978	0.3297	0.2107	0.2205
186	5.50	0.2169	0.1963	0.3240	0.2095	0.2184
186	5.75	0.2108	0.1941	0.3179	0.2070	0.2155
186	6.00	0.2077	0.1918	0.3120	0.2046	0.2128
186	6.25	0.2033	0.1892	0.3060	0.2019	0.2099
186	6.50	0.2027	0.1870	0.3008	0.1997	0.2075
186	6.75	0.1965	0.1842	0.2951	0.1966	0.2045
186	7.00	0.1995	0.1822	0.2906	0.1947	0.2023
186	7.25	0.1924	0.1796	0.2855	0.1918	0.1995
186	7.50	0.1898	0.1770	0.2807	0.1890	0.1967
186	7.75	0.1816	0.1737	0.2752	0.1852	0.1933
186	8.00	0.1793	0.1706	0.2700	0.1816	0.1901
186	8.25	0.1624	0.1659	0.2632	0.1760	0.1859
186	8.50	0.1555	0.1610	0.2564	0.1699	0.1810
186	8.75	0.1535	0.15[illegible]	0.2500	0.1646	0.1764
186	9.00	0.1526	0.15[illegible]	0.2440	0.1597	0.1720
186	9.25	0.1441	0.1474	0.2377	0.1543	0.1671
186	9.50	0.1435	0.1431	0.2319	0.1495	0.1626
186	9.75	0.1404	0.1389	0.2263	0.1450	0.1581
186	10.00	0.1387	0.1350	0.2209	0.1409	0.1541
186	10.25	0.1370	0.1313	0.2159	0.1371	0.1502

LEAKAGE RATE SUMMARY UNIT 1

		TOTAL TIME			MASS/POINT	
DATE	TIME	TTLM	LMCALC	SL	LAM	L95
187	10.50	0.1330	0.1276	0.2109	0.1332	0.1463
187	10.75	0.1325	0.1241	0.2063	0.1297	0.1427
187	11.00	0.1276	0.1206	0.2017	0.1262	0.1391
187	11.25	0.1157	0.1163	0.1963	0.1216	0.1347
187	11.50	0.1162	0.1125	0.1913	0.1174	0.1307
187	11.75	0.1234	0.1095	0.1875	0.1148	0.1278
187	12.00	0.1220	0.1067	0.1839	0.1123	0.1250
187	12.25	0.1250	0.1044	0.1809	0.1104	0.1227
187	12.50	0.1227	0.1021	0.1779	0.1086	0.1206
187	12.75	0.1228	0.1000	0.1752	0.1069	0.1185
187	13.00	0.1217	0.0980	0.1727	0.1053	0.1166
187	13.25	0.1187	0.0959	0.1701	0.1036	0.1146
187	13.50	0.1250	0.0944	0.1684	0.1029	0.1135
187	13.75	0.1213	0.0929	0.1665	0.1018	0.1121
187	14.00	0.1172	0.0911	0.1644	0.1004	0.1104
187	14.25	0.1171	0.0895	0.1625	0.0993	0.1090
187	14.50	0.1148	0.0878	0.1605	0.0981	0.1076
187	14.75	0.1180	0.0865	0.1591	0.0972	0.1063
187	15.00	0.1151	0.0852	0.1575	0.0962	0.1051
187	15.25	0.1135	0.0838	0.1559	0.0952	0.1039
187	15.50	0.1125	0.0824	0.1543	0.0943	0.1027
187	15.75	0.1117	0.0811	0.1529	0.0933	0.1015
187	16.00	0.1099	0.0798	0.1514	0.0924	0.1004
187	16.25	0.1101	0.0786	0.1501	0.0915	0.0994
187	16.50	0.1107	0.0775	0.1489	0.0908	0.0985
187	16.75	0.1110	0.0766	0.1479	0.0903	0.0977
187	17.00	0.1094	0.0755	0.1469	0.0895	0.0967
187	17.25	0.1100	0.0746	0.1460	0.0891	0.0961
187	17.50	0.1103	0.0738	0.1452	0.0887	0.0955
187	17.75	0.1094	0.0730	0.1444	0.0882	0.0949
187	18.00	0.1080	0.0720	0.1436	0.0878	0.0943
187	18.25	0.1095	0.0715	0.1430	0.0874	0.0938
187	18.50	0.1073	0.0708	0.1423	0.0870	0.0932
187	18.75	0.1073	0.0701	0.1417	0.0866	0.0926
187	19.00	0.1091	0.0695	0.1413	0.0863	0.0922
187	19.25	0.1063	0.0689	0.1407	0.0860	0.0917
187	19.50	0.1085	0.0684	0.1403	0.0858	0.0914
187	19.75	0.1072	0.0678	0.1399	0.0856	0.0911
187	20.00	0.1073	0.0674	0.1395	0.0854	0.0907
187	20.25	0.1064	0.0669	0.1392	0.0852	0.0904

LEAKAGE RATE SUMMARY UNIT 1

		TOTAL TIME			MASS/POINT	
DATE	TIME	TTLM	LMCALC	SL	LAM	L95
187	20.50	0.1057	0.0664	0.1388	0.0851	0.0901
187	20.75	0.1064	0.0660	0.1385	0.0849	0.0899
187	21.00	0.1052	0.0655	0.1382	0.0847	0.0895
187	21.25	0.1067	0.0652	0.1380	0.0846	0.0893
187	21.50	0.1071	0.0649	0.1379	0.0846	0.0892
187	21.75	0.1017	0.0644	0.1374	0.0843	0.0888
187	22.00	0.0984	0.0637	0.1367	0.0837	0.0881
187	22.25	0.0952	0.0630	0.1359	0.0830	0.0874
187	22.50	0.0924	0.0622	0.1349	0.0821	0.0865
187	22.75	0.0919	0.0614	0.1340	0.0813	0.0857
187	23.00	0.0900	0.0606	0.1330	0.0804	0.0848
187	23.25	0.0861	0.0596	0.1318	0.0793	0.0837
187	23.50	0.0894	0.0588	0.1309	0.0786	0.0829
187	23.75	0.0880	0.0580	0.1300	0.0778	0.0821
187	24.00	0.0892	0.0573	0.0693	0.0771	0.0814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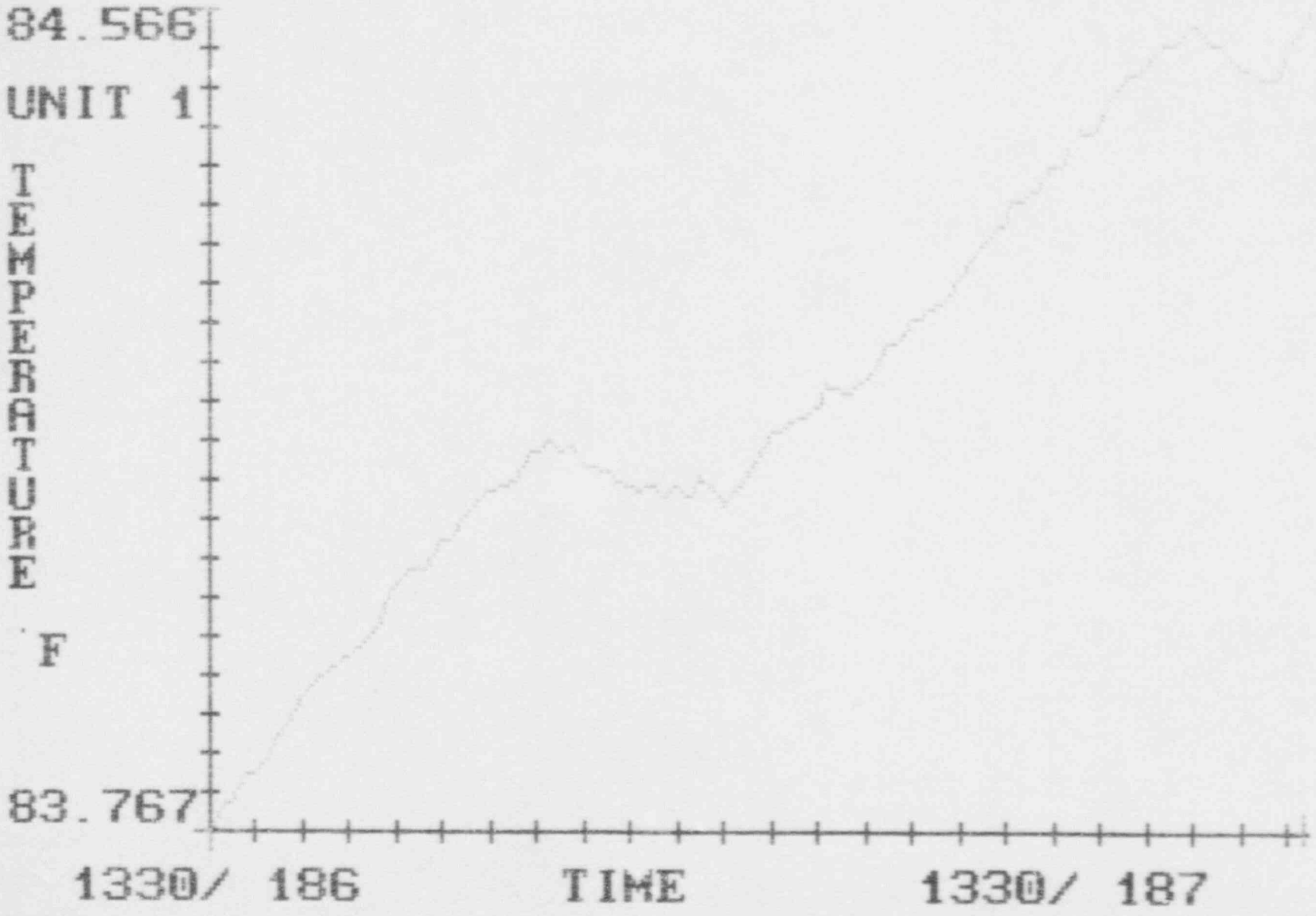
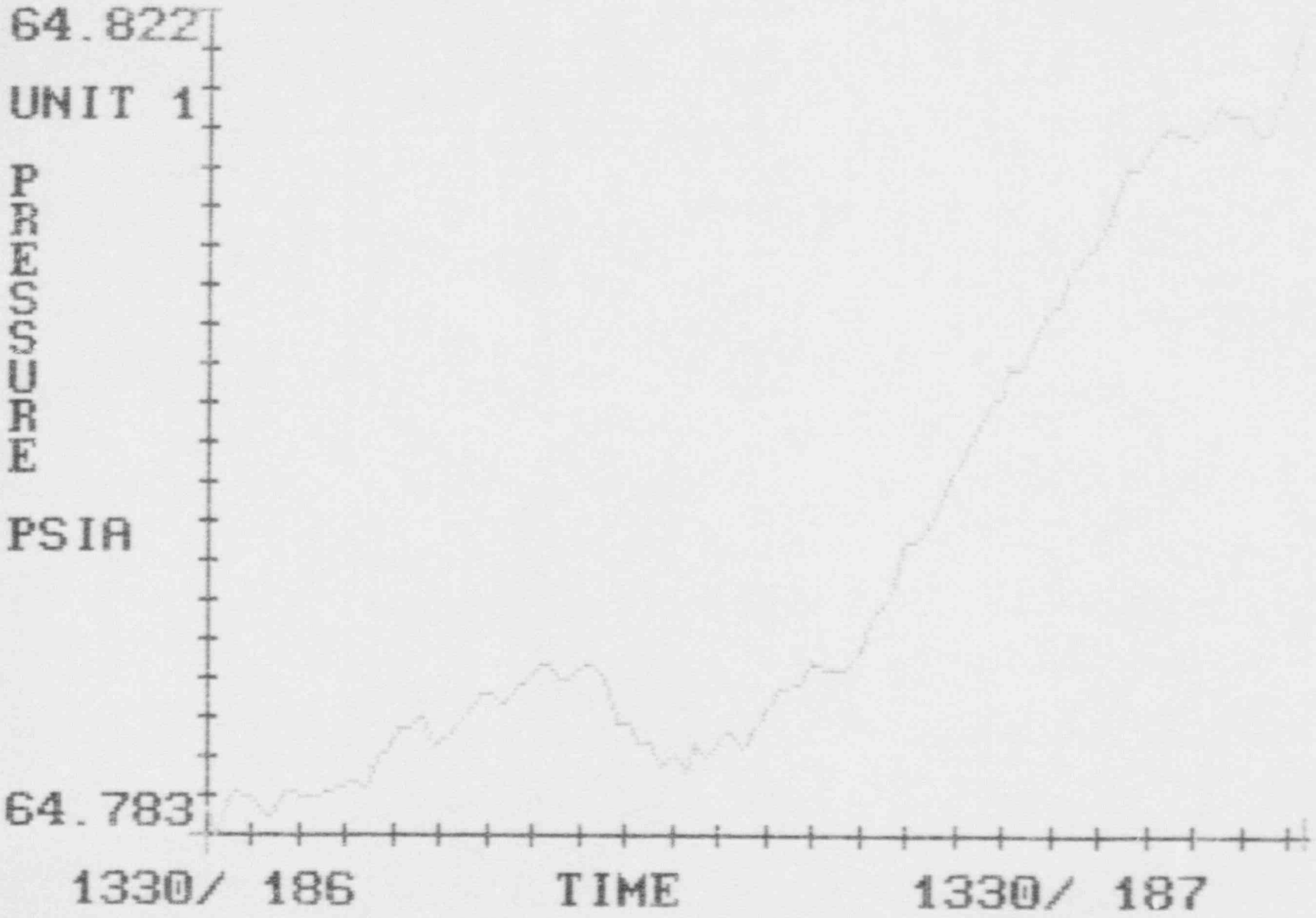
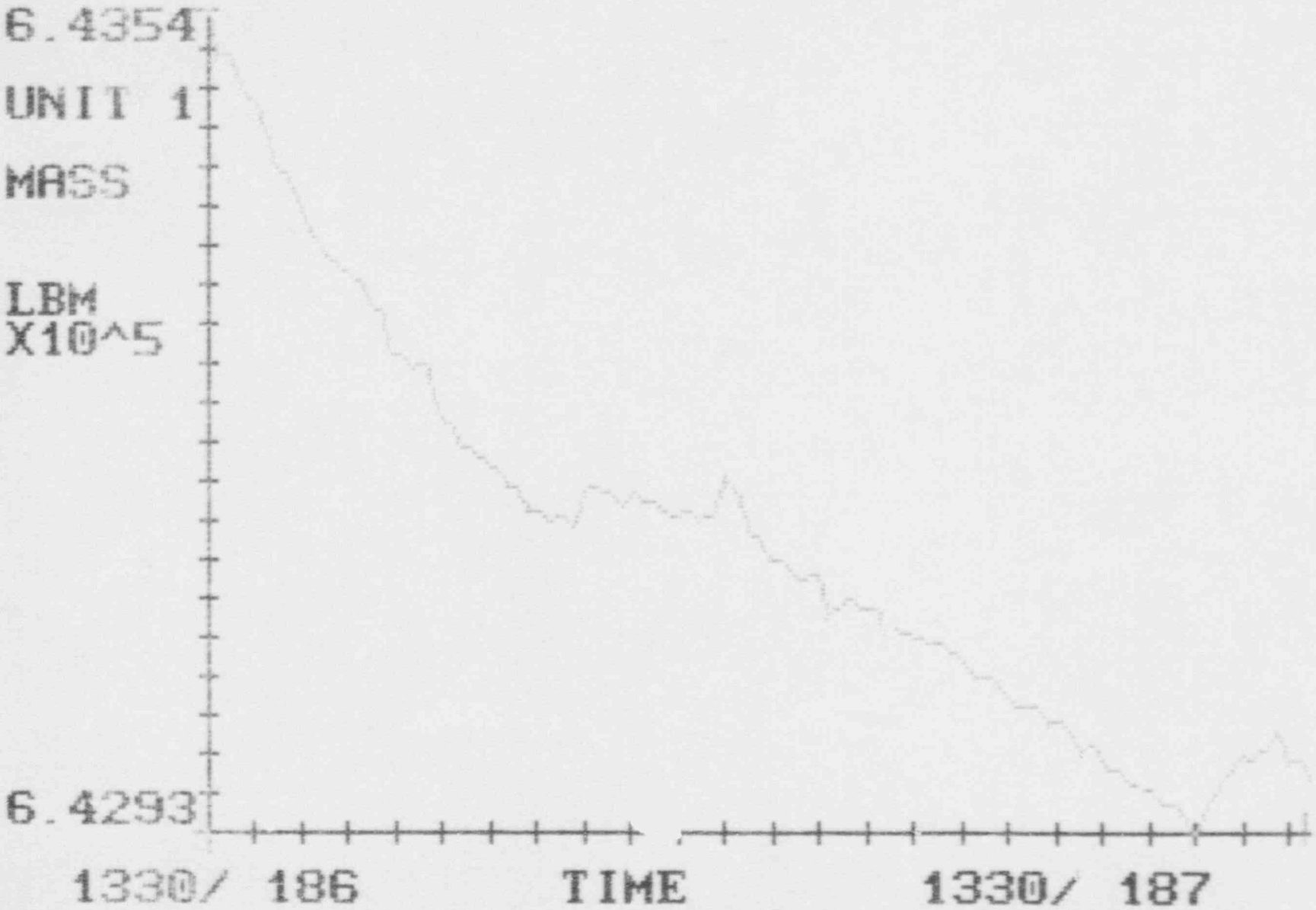
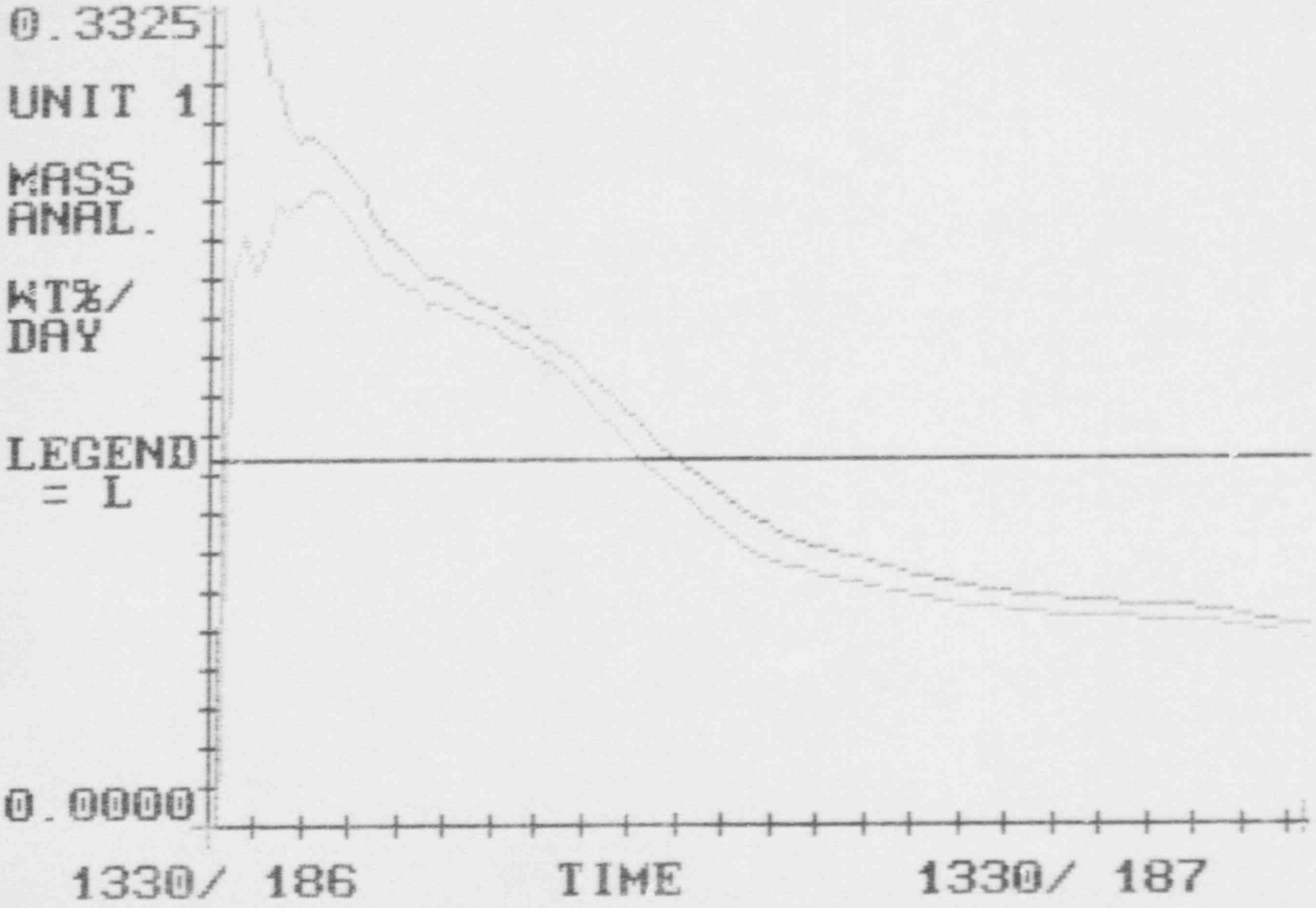
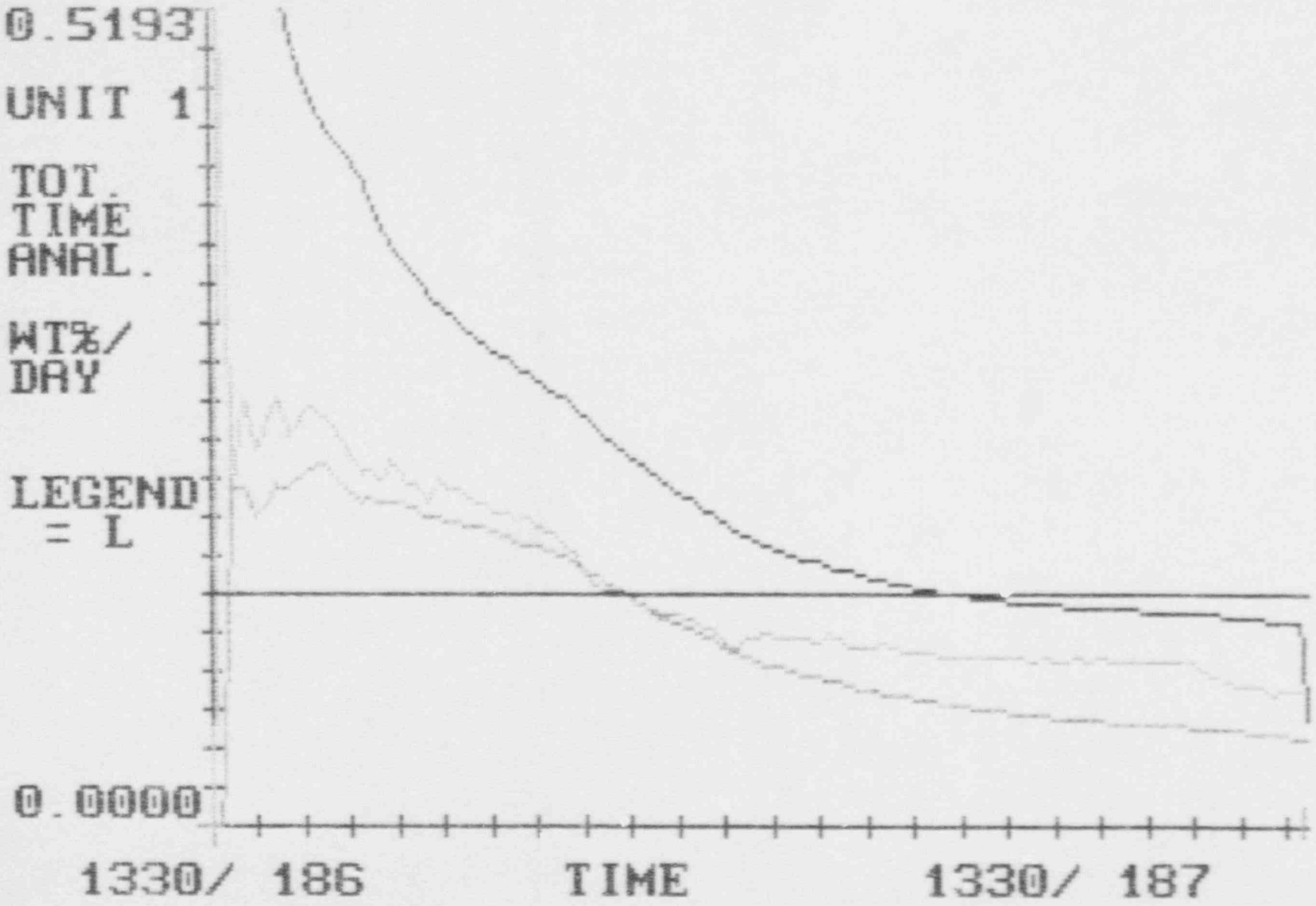
TIME
1330/ 187


84.566
UNIT 1
TEMPERATURE
F
83.767
1330/ 186
TIME
1330/ 187


64.822
UNIT 1
PRESSURE
PSIA
64.783
1330/ 186
TIME
1330/ 187


6.4354
UNIT 1
MASS
LBM
X10^5
6.4293
1330/ 186
TIME
1330/ 187


0.3325
UNIT 1
MASS
ANAL.
WT%/
DAY
LEGEND
= L
0.0000
1330/ 186
TIME
1330/ 187


0.5193
UNIT 1
TOT.
TIME
ANAL.
WT%/
DAY
LEGEND
= L
0.0000
1330/ 186
TIME
1330/ 187

APPENDIX D

VERIFICATION TEST PHASE
CALCULATIONS, DATA AND GRAPHS

VERIFICATION MODE
OPTIONS:

TIME= 1745
TEST SUMMARY

1 - MANUAL DATA ENTRY
2 - PARAMETER GRAPHS
3 - SENSOR PLOTS
4 - TREND ANALYSIS
5 - REPRINT CURRENT DATA PT
6 - SENSOR DIFFERENTIALS

P - PASS WORD MENU

SELECTED OPTION =

# OF DATA POINTS =	17
MODE DURATION (IN HOURS) =	4.00
TOT TIME MEASURED LEAK =	0.2748
TOT TIME CALCULATED LEAK =	0.2765
MASS PT LEAK =	0.2811
IMPOSED LEAK =	0.1999
TOT TIME UPPER LIMIT =	0.3072
TOT TIME LOWER LIMIT =	0.2072
MASS PT UPPER LIMIT =	0.3269
MASS PT LOWER LIMIT =	0.2269

TOT TIME VERIFICATION CRITERIA HAS BEEN MET

MASS PT VERIFICATION CRITERIA HAS BEEN MET

POINT SUMMARY: CURRENT VALUE/DIFFERENCE FROM PREVIOUS POINT

AVG TEMP:	84.775/ +0.001	AVG PRESS:	64.815 / +0.000
MASS:	642662.38/ +0.750	AVG DEW PRESS:	0.4178/ -0.0002
		TOTAL PRESS:	65.233 / -0.000

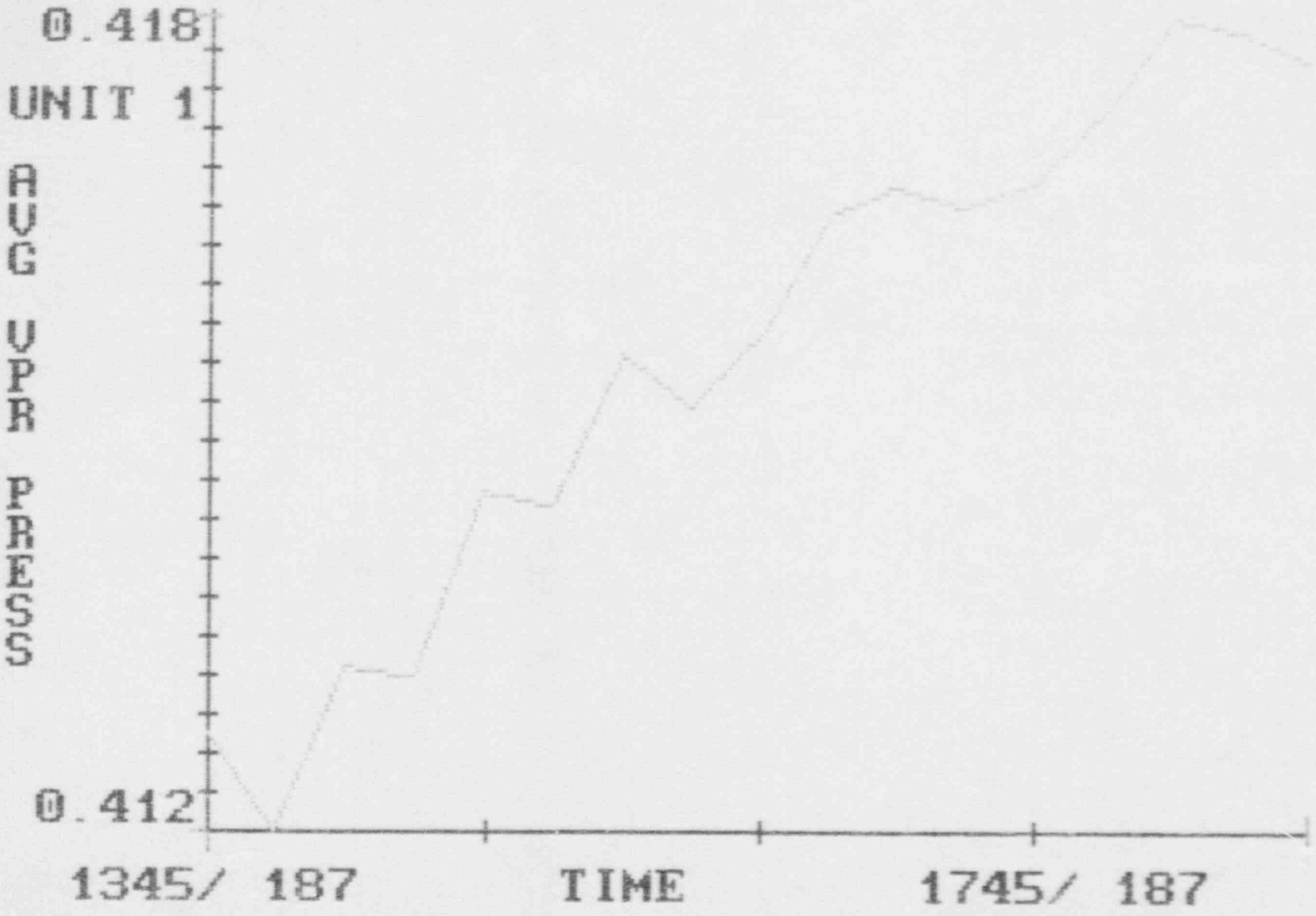
VERF MODE
Page 1

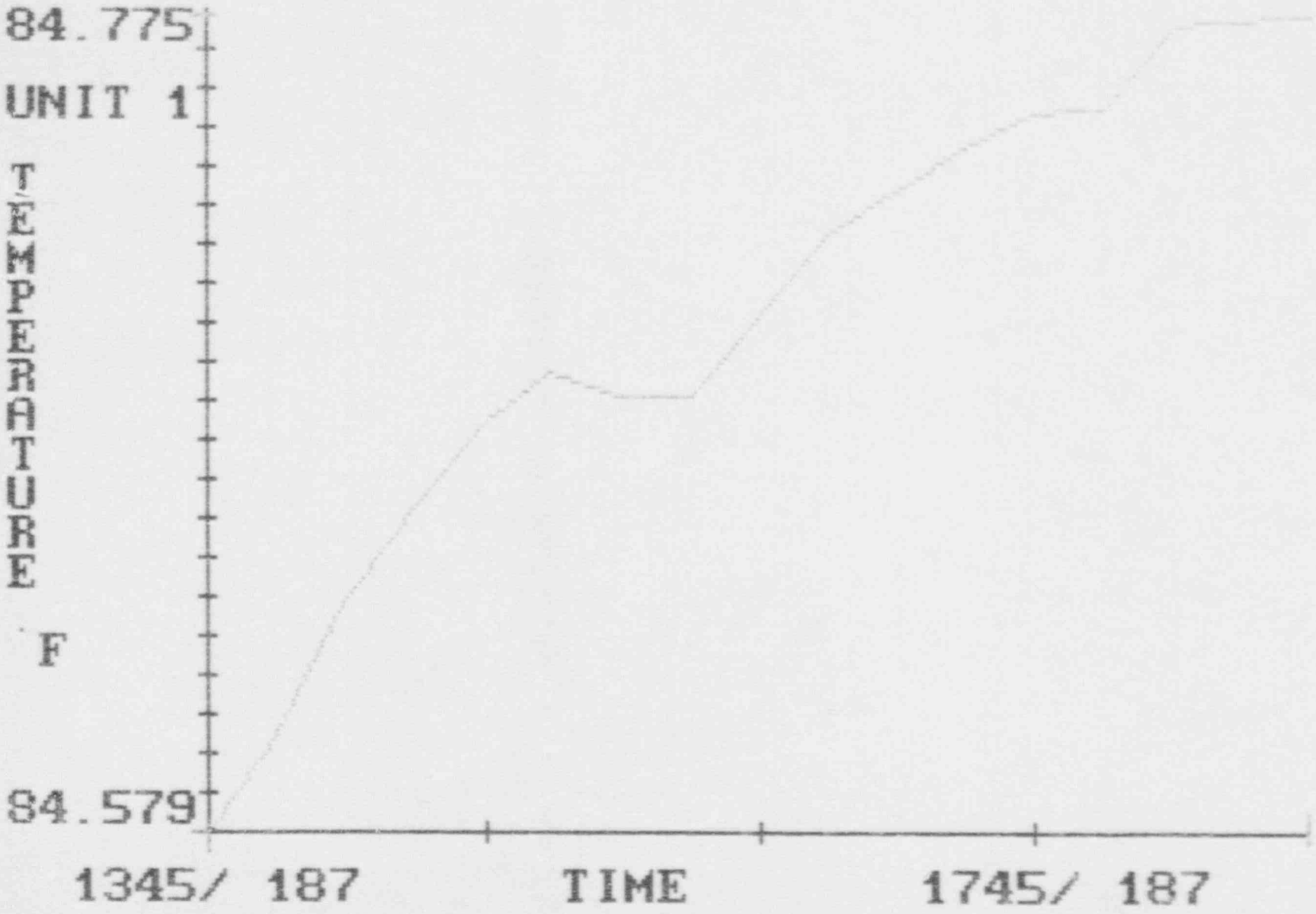
AVERAGE DATA VALUES

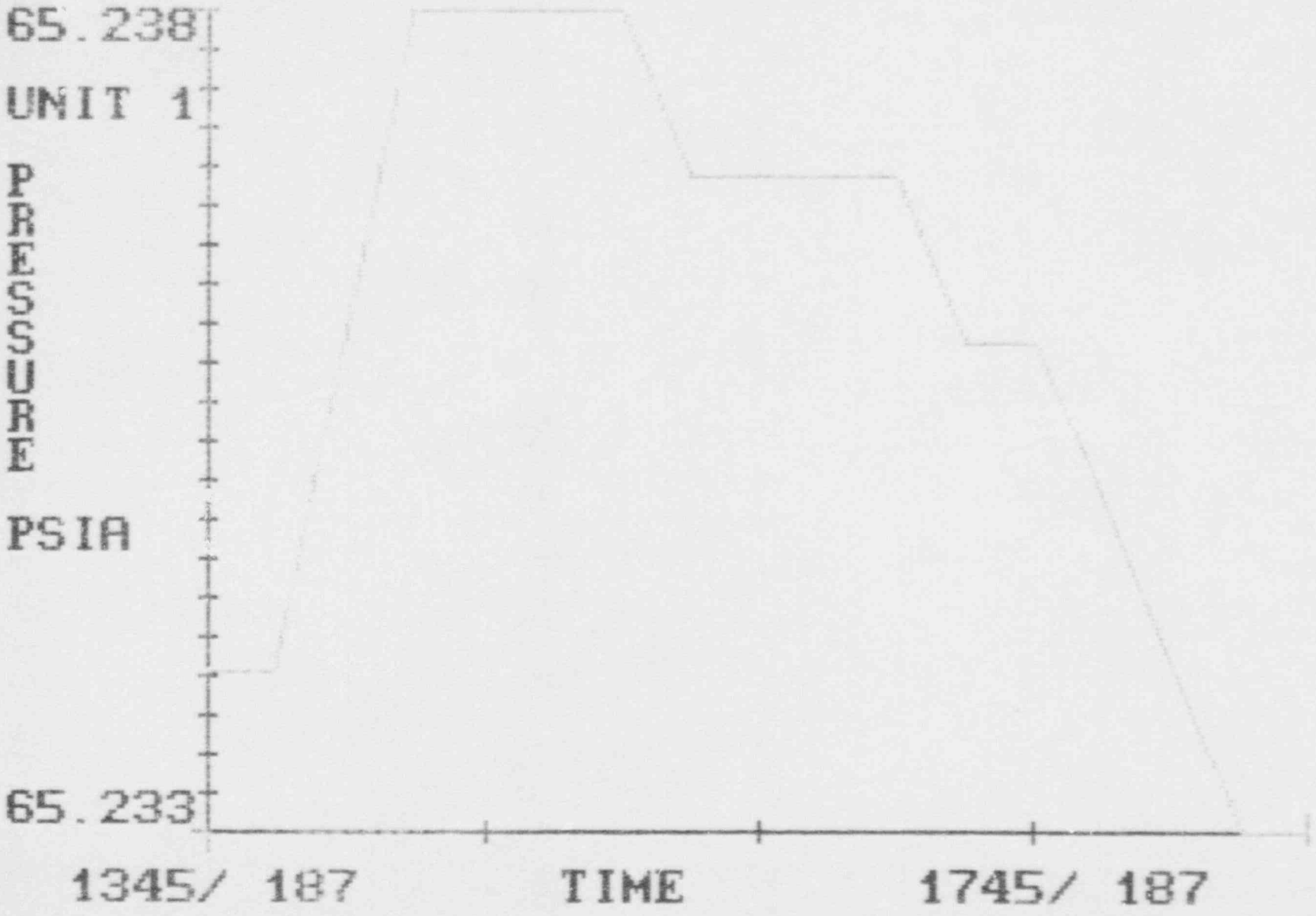
DATE	TIME	RTD	DEW PT.	VAP PRESS	DRY PRESS	MASS
187	0.00	84.579	73.778	0.412	64.822	642956.88
187	0.25	84.602	73.721	0.412	64.823	642937.50
187	0.50	84.635	73.818	0.413	64.823	642905.00
187	0.75	84.656	73.814	0.413	64.825	642899.81
187	1.00	84.677	73.922	0.414	64.824	642860.63
187	1.25	84.689	73.913	0.414	64.824	642847.50
187	1.50	84.684	73.998	0.415	64.823	642841.81
187	1.75	84.684	73.969	0.415	64.822	42836.31
187	2.00	84.704	74.010	0.416	64.822	642807.13
187	2.25	84.721	74.078	0.417	64.821	642776.69
187	2.50	84.733	74.094	0.417	64.820	642761.31
187	2.75	84.743	74.085	0.417	64.820	642740.38
187	3.00	84.751	74.098	0.417	64.819	642729.88
187	3.25	84.752	74.139	0.417	64.818	642712.50
187	3.50	84.772	74.195	0.418	64.816	642672.13
187	3.75	84.774	74.184	0.418	64.815	642661.63
187	4.00	84.775	74.167	0.418	64.815	642662.38

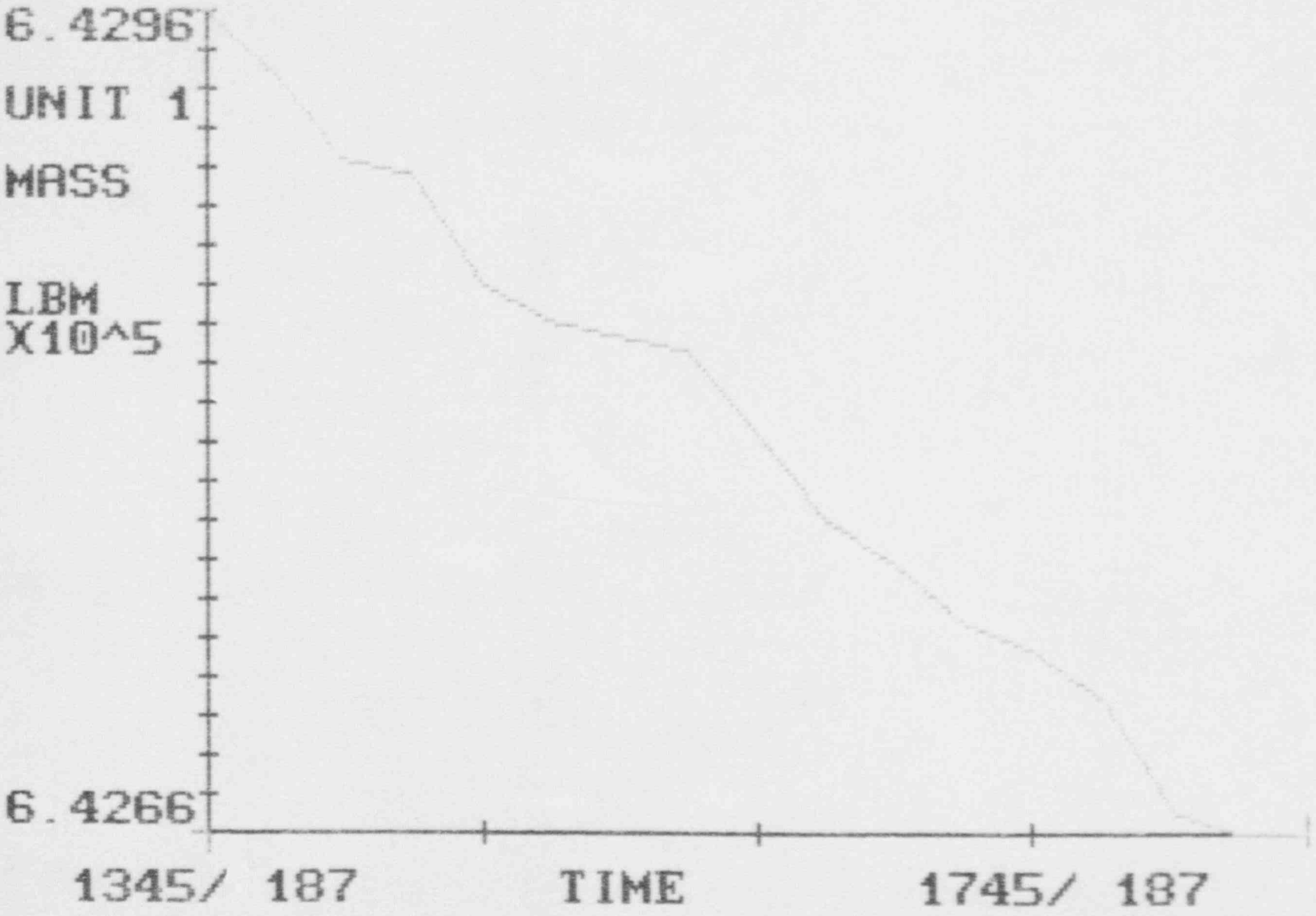
LEAKAGE RATE SUMMARY UNIT 1

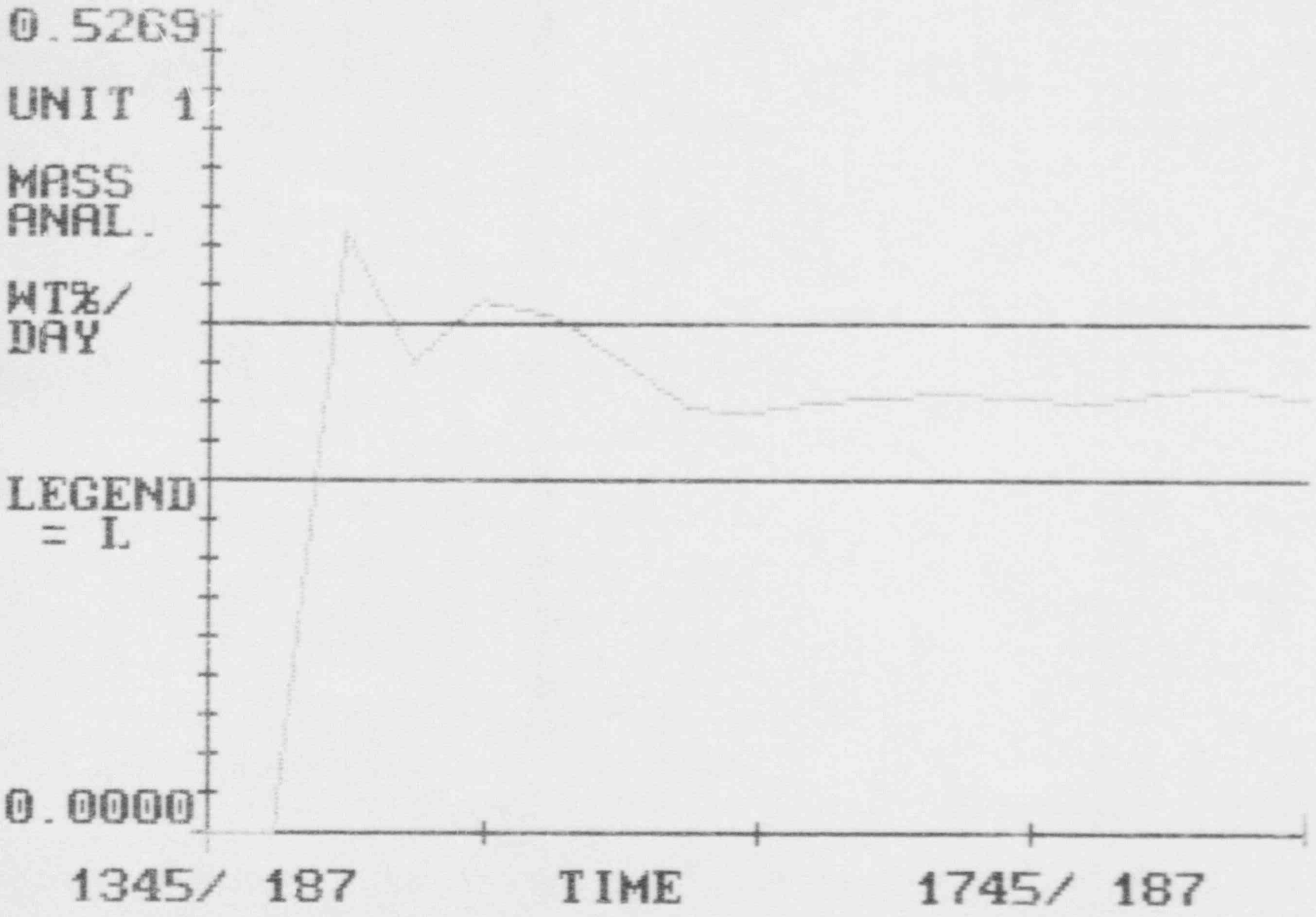
		TOTAL TIME			MASS/POINT	
DATE	TIME	TTIM	LMCALC	SL	LAM	L95
187	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
187	0.25	0.2895	0.0000	0.0000	0.0000	0.0000
187	0.50	0.3875	0.3875	0.0000	0.3370	0.8710
187	0.75	0.2845	0.3180	1.1128	0.3038	0.4631
187	1.00	0.3594	0.3462	0.6498	0.3440	0.4350
187	1.25	0.3267	0.3388	0.5349	0.3339	0.3892
187	1.50	0.2866	0.3137	0.4754	0.3047	0.3556
187	1.75	0.2571	0.2856	0.4283	0.2737	0.3243
187	2.00	0.2797	0.2778	0.4003	0.2699	0.3082
187	2.25	0.2990	0.2803	0.3913	0.2780	0.3093
187	2.50	0.2922	0.2799	0.3811	0.2796	0.3049
187	2.75	0.2938	0.2803	0.3742	0.2826	0.3036
187	3.00	0.2824	0.2774	0.3645	0.2795	0.2973
187	3.25	0.2808	0.2750	0.3565	0.2775	0.2928
187	3.50	0.3038	0.2791	0.3585	0.2844	0.2992
187	3.75	0.2940	0.2800	0.3560	0.2860	0.2990
187	4.00	0.2748	0.2765	0.3468	0.2811	0.2934

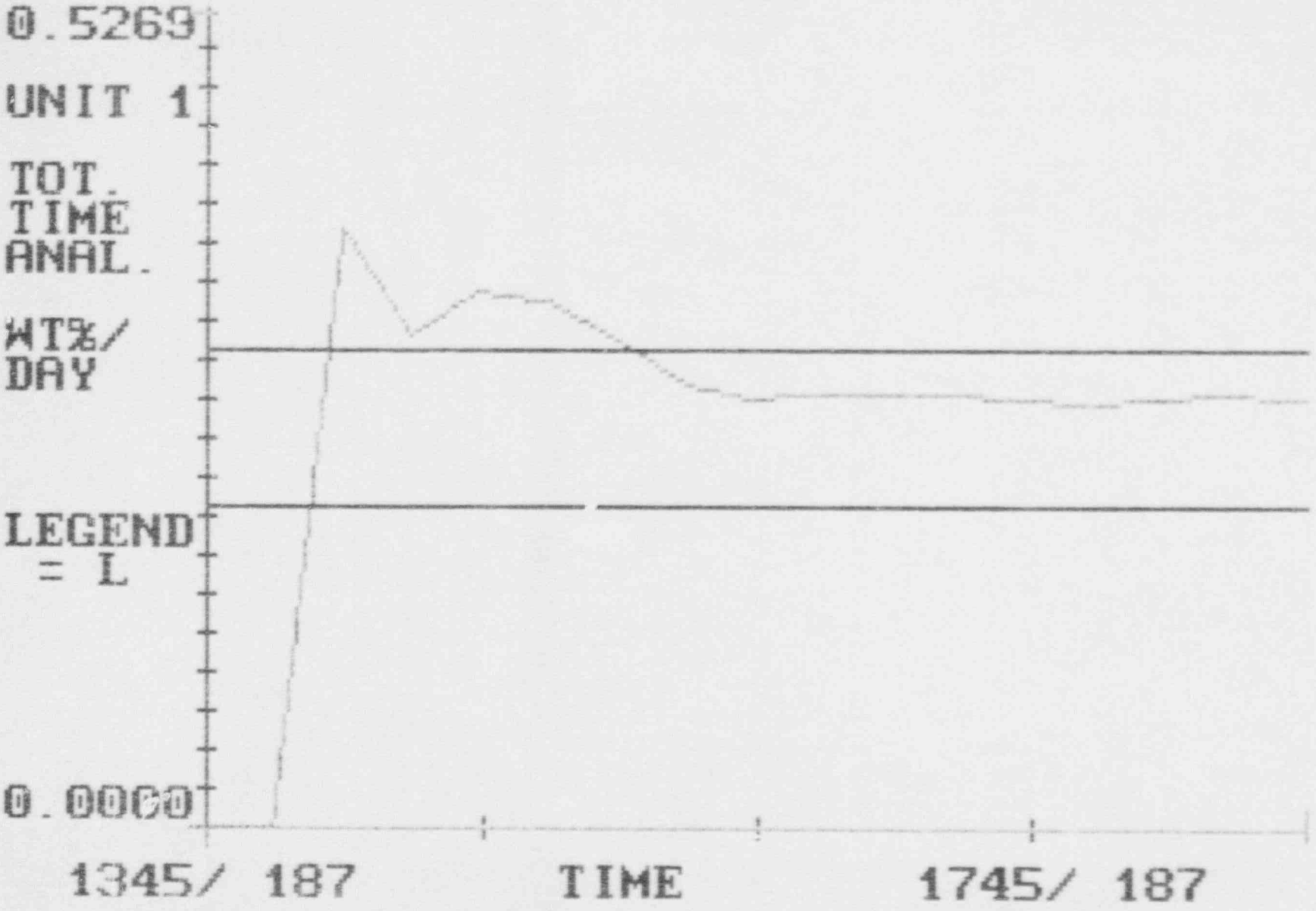

0.418
UNIT 1
AVG VPR PRESS
0.412
1345/ 187
TIME
1745/ 187


84.775
UNIT 1
TEMPERATURE
F
84.579
1345/ 187
TIME
1745/ 187


65.238
UNIT 1
PRESSURE
PSIA
65.233
1345/ 187
TIME
1745/ 187

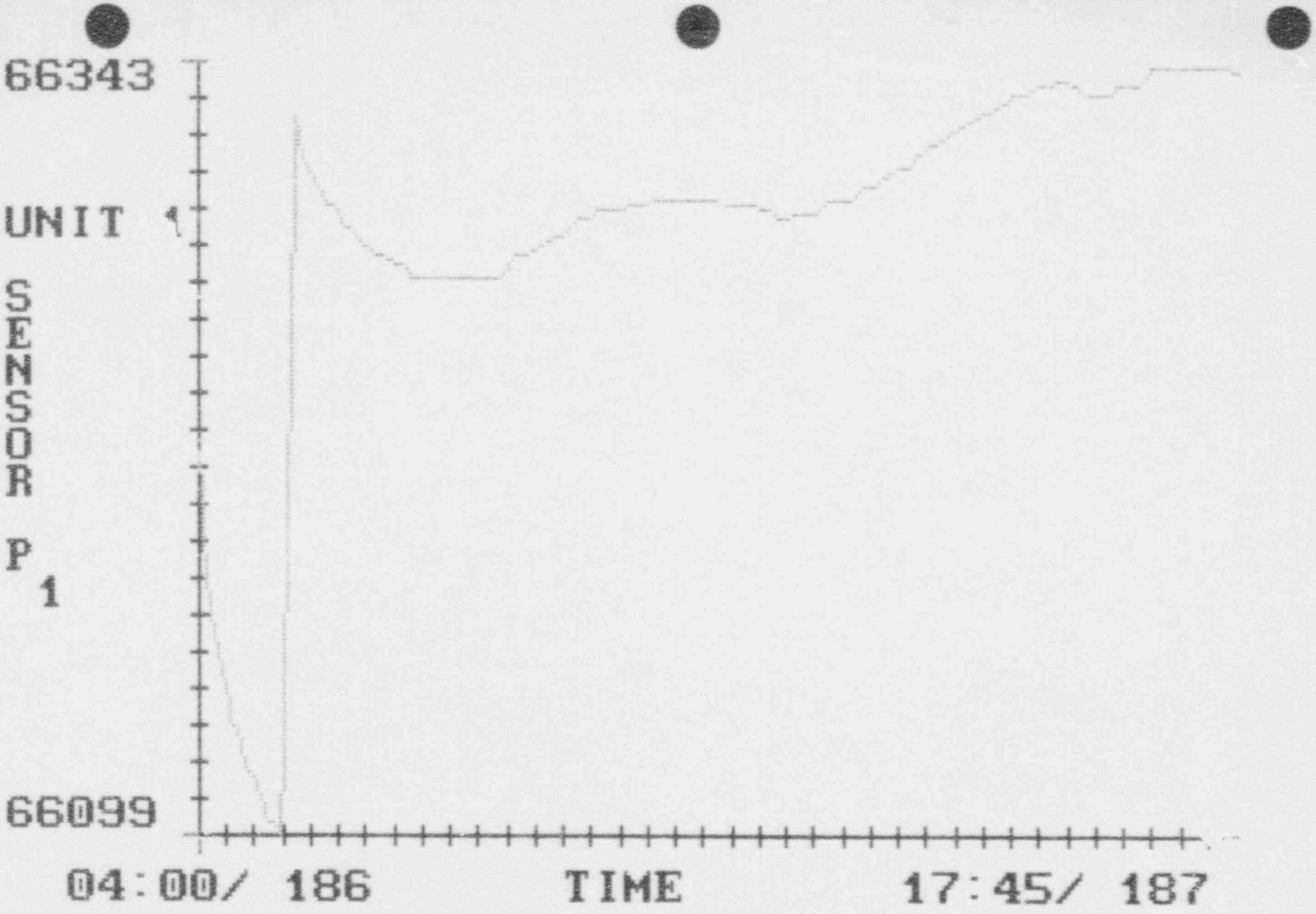

6.4296
UNIT 1
MASS
LBM
X10^5
6.4266
1345/ 187
TIME
1745/ 187

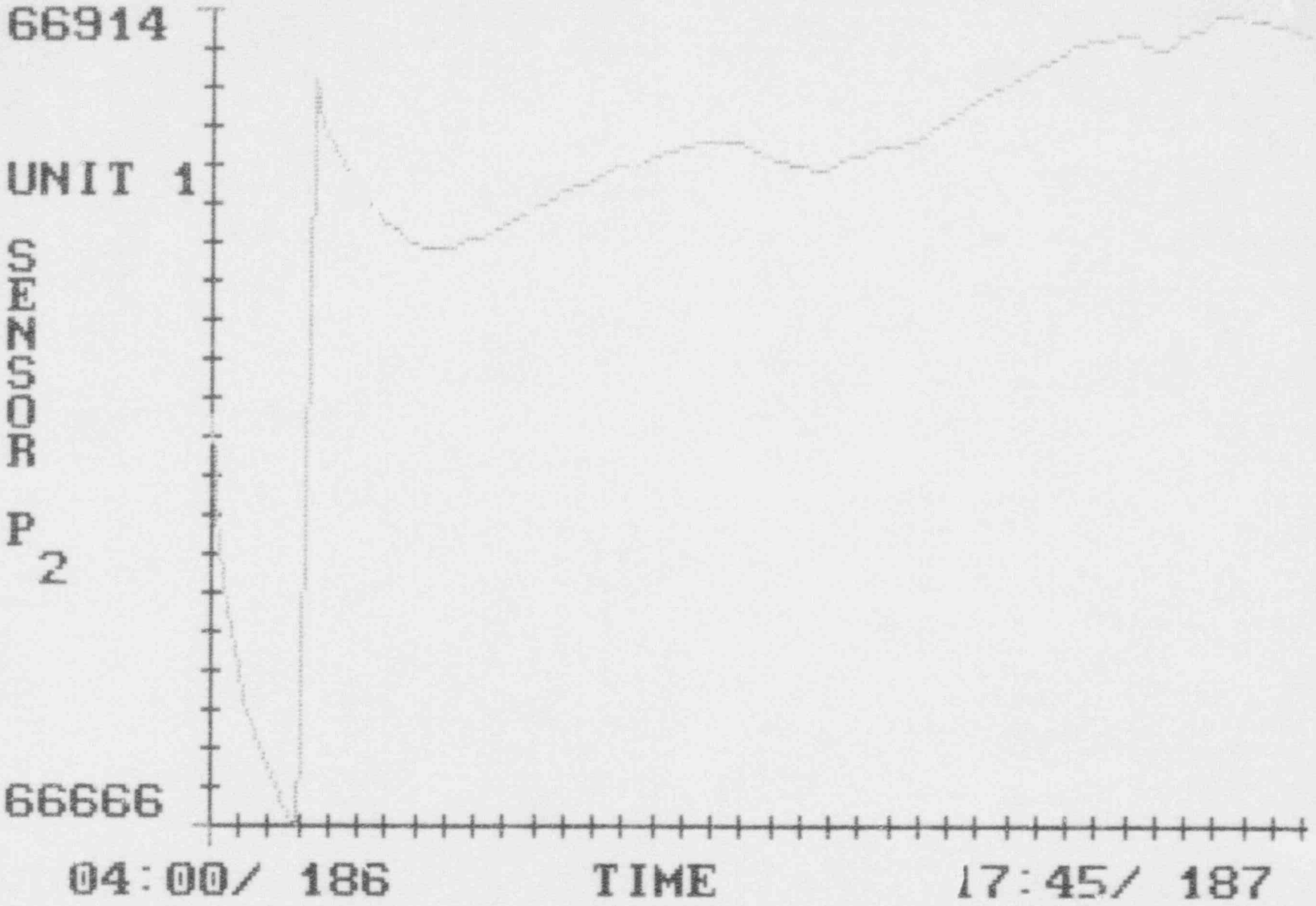

0.5269
UNIT 1
MASS
ANAL.
WT%/
DAY
LEGEND
= L
0.0000
1345/ 187
TIME
1745/ 187

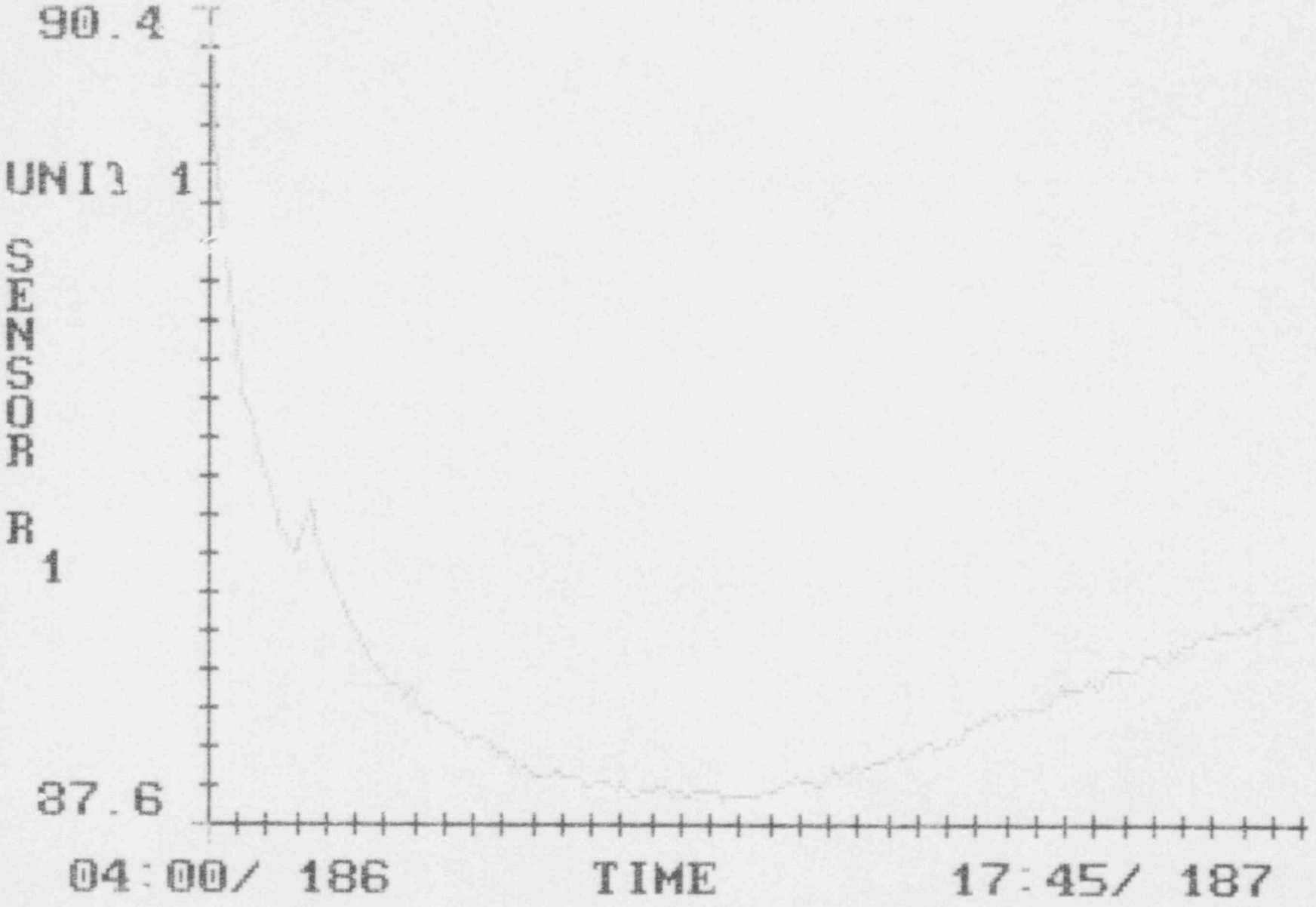

0.5269
UNIT 1
TOT.
TIME
ANAL.
WT%/
DAY
LEGEND
= L
0.0000
1345/ 187
TIME
1745/ 187

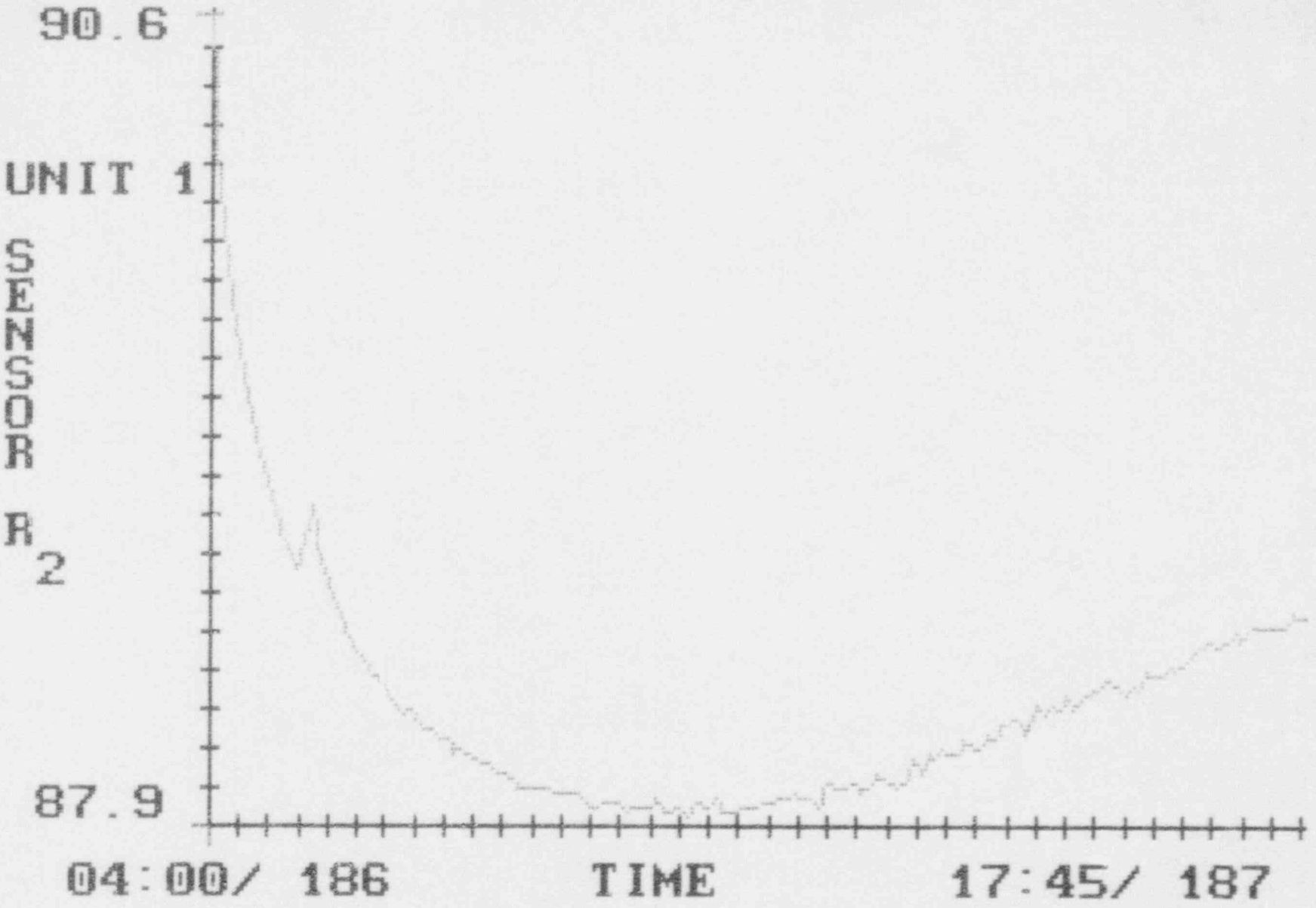
APPENDIX E

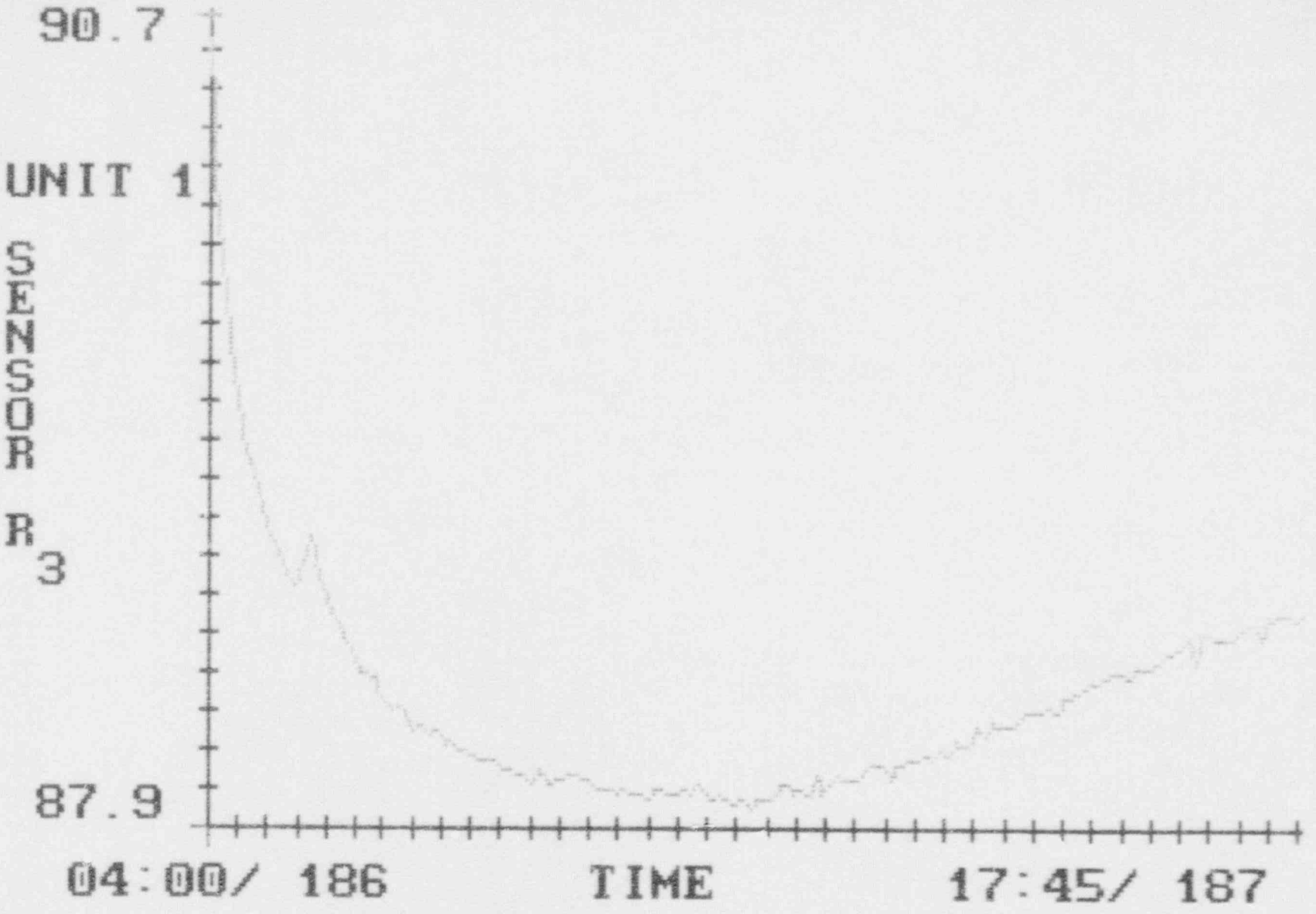
ILRT SENSOR GRAPHS

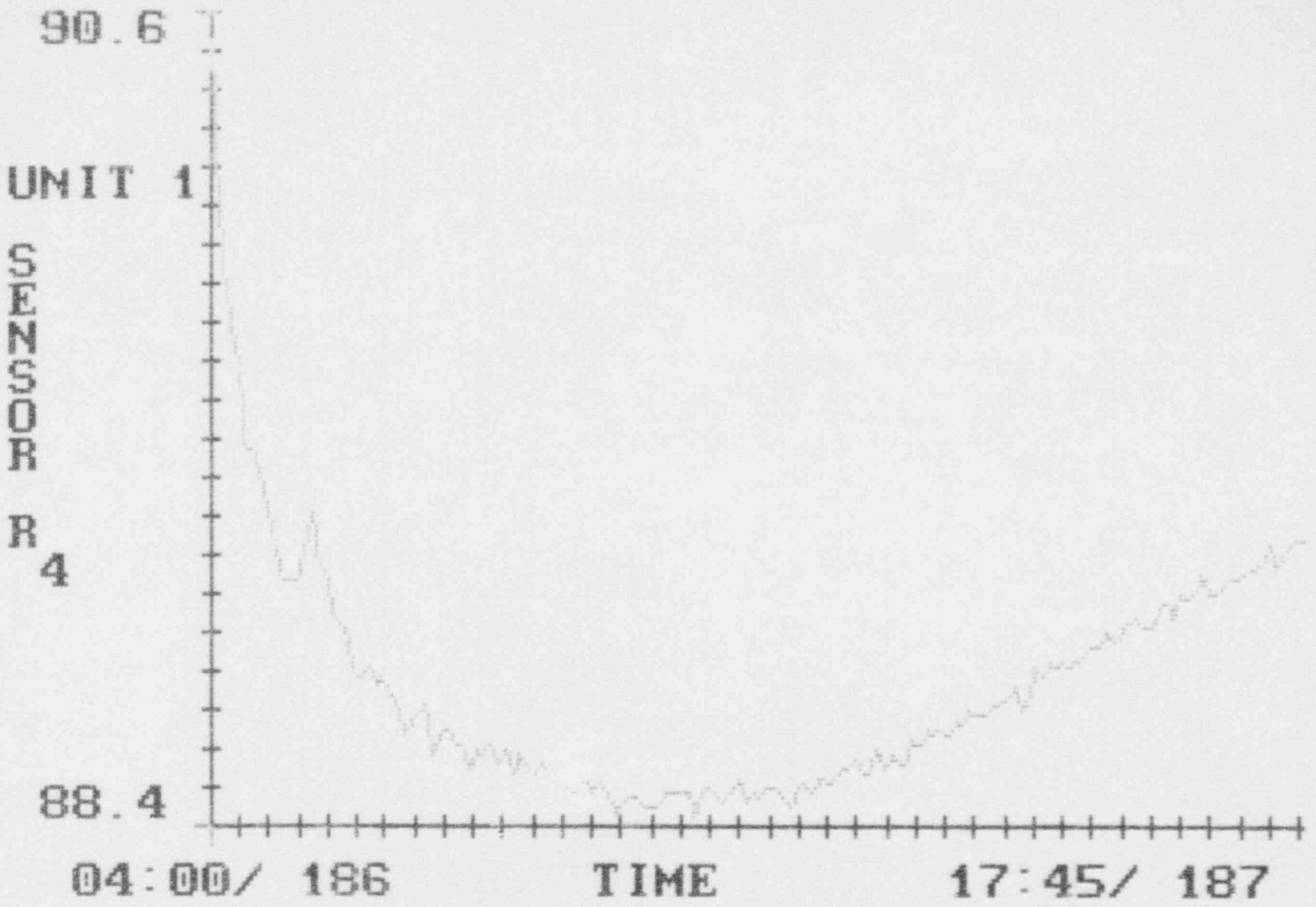

66343
UNIT 1
SENSOR P 1
66099
04:00/ 186
TIME
17:45/ 187

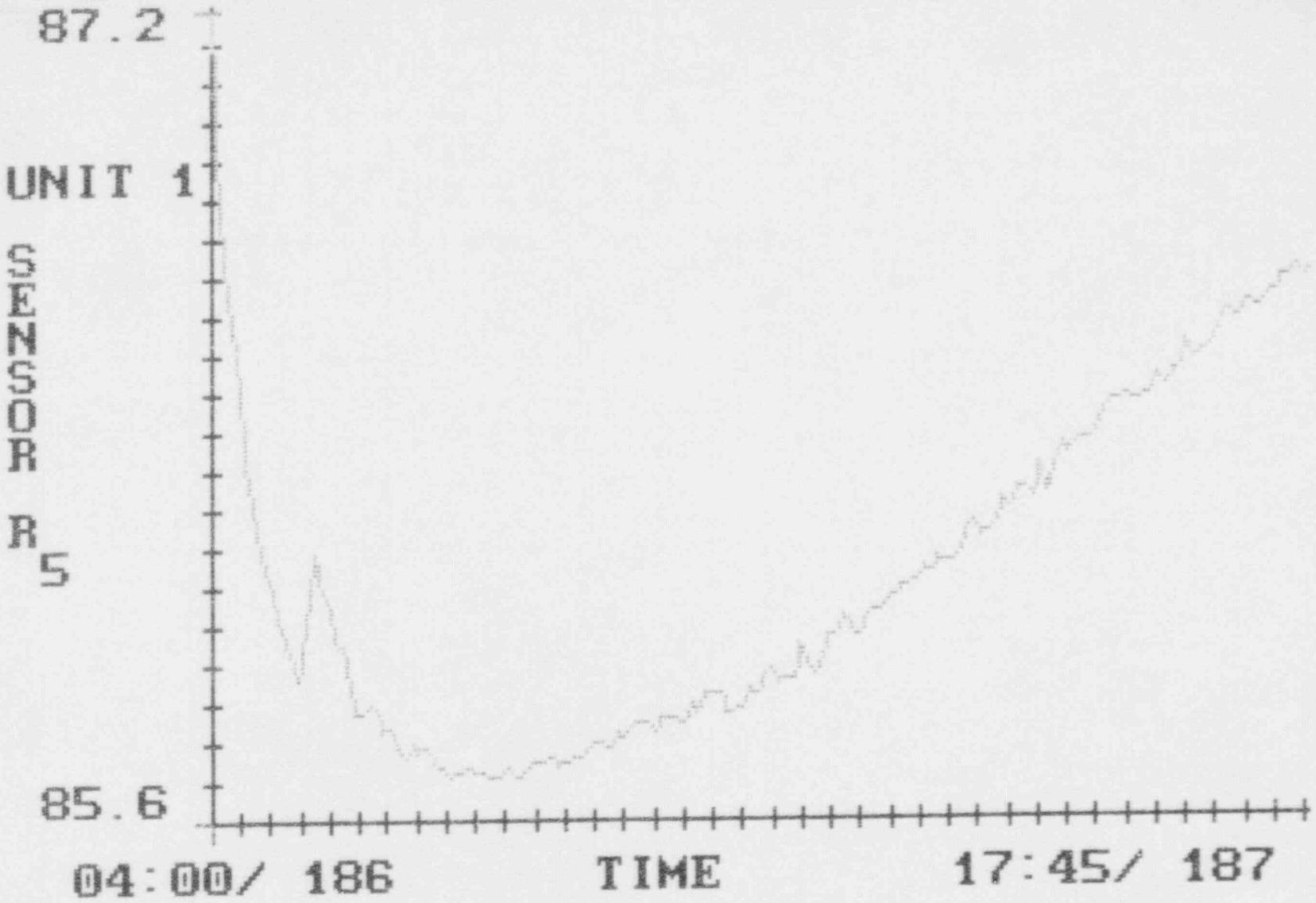

66914
UNIT 1
SENSOR
P2
66666
04:00/ 186
TIME
17:45/ 187

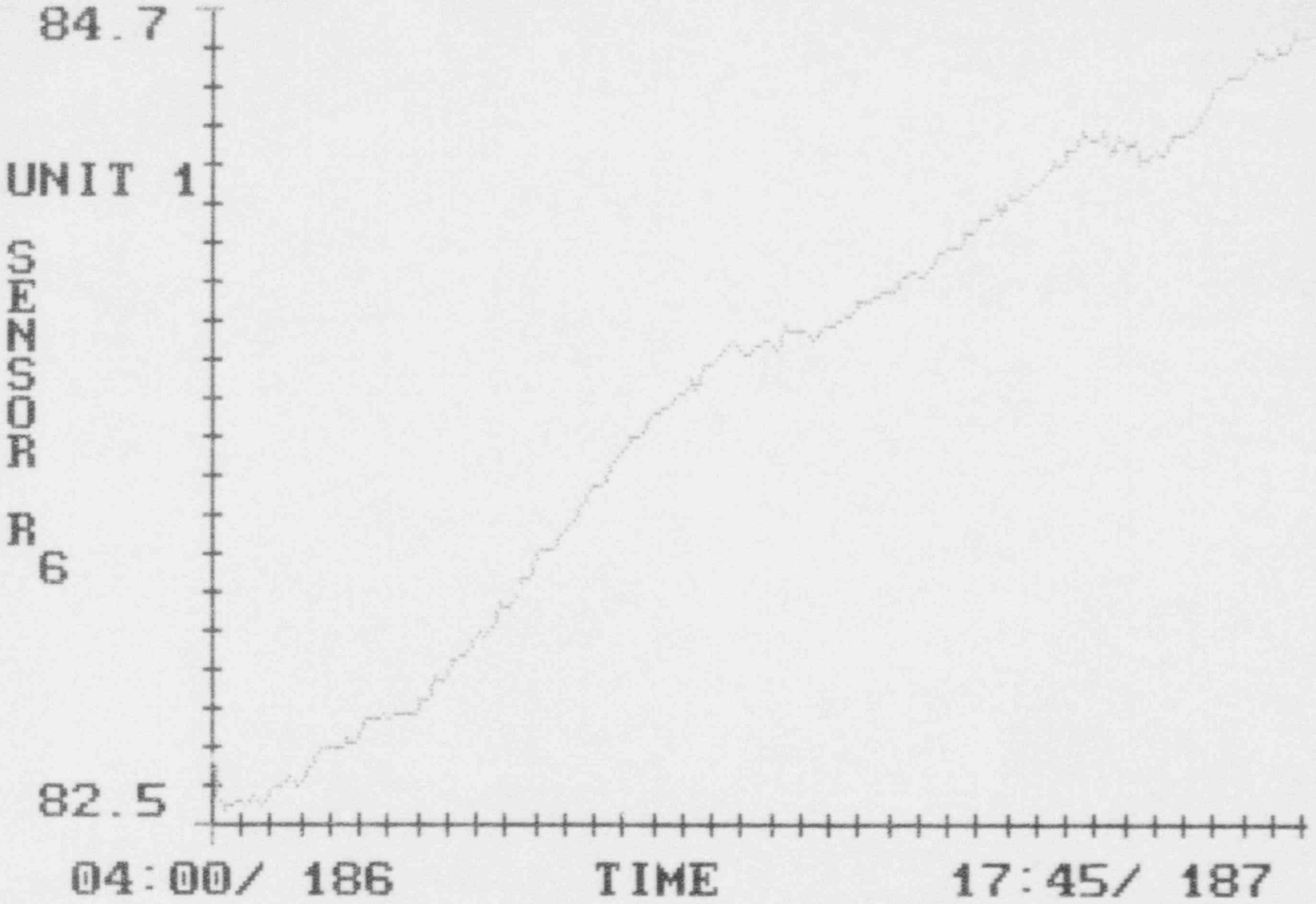

90.4
UNIT 1
SENSOR
R
1
87.6
04:00/ 186
TIME
17:45/ 187

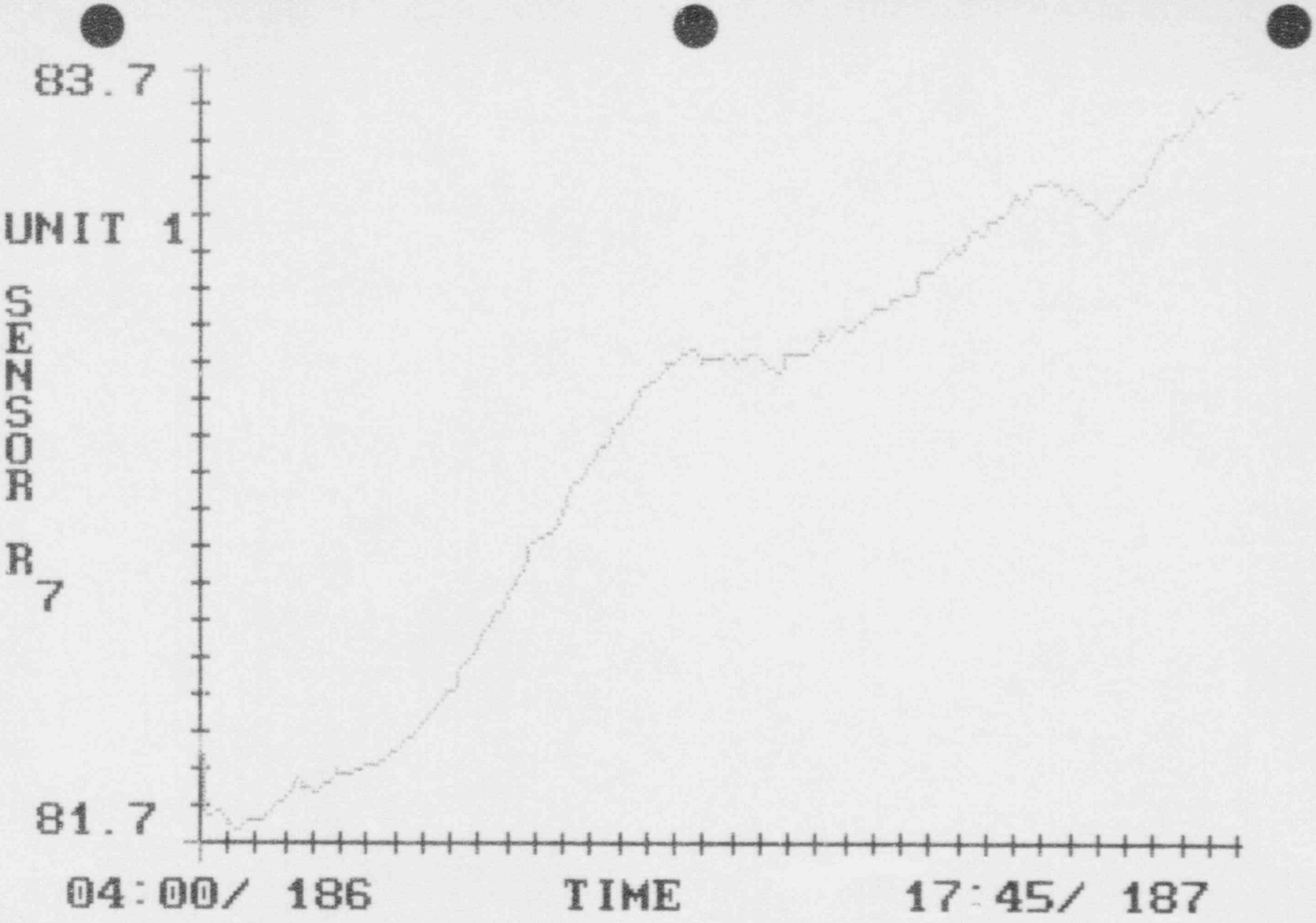

90.6
UNIT 1
SENSOR R2
87.9
04:00/ 186
TIME
17:45/ 187

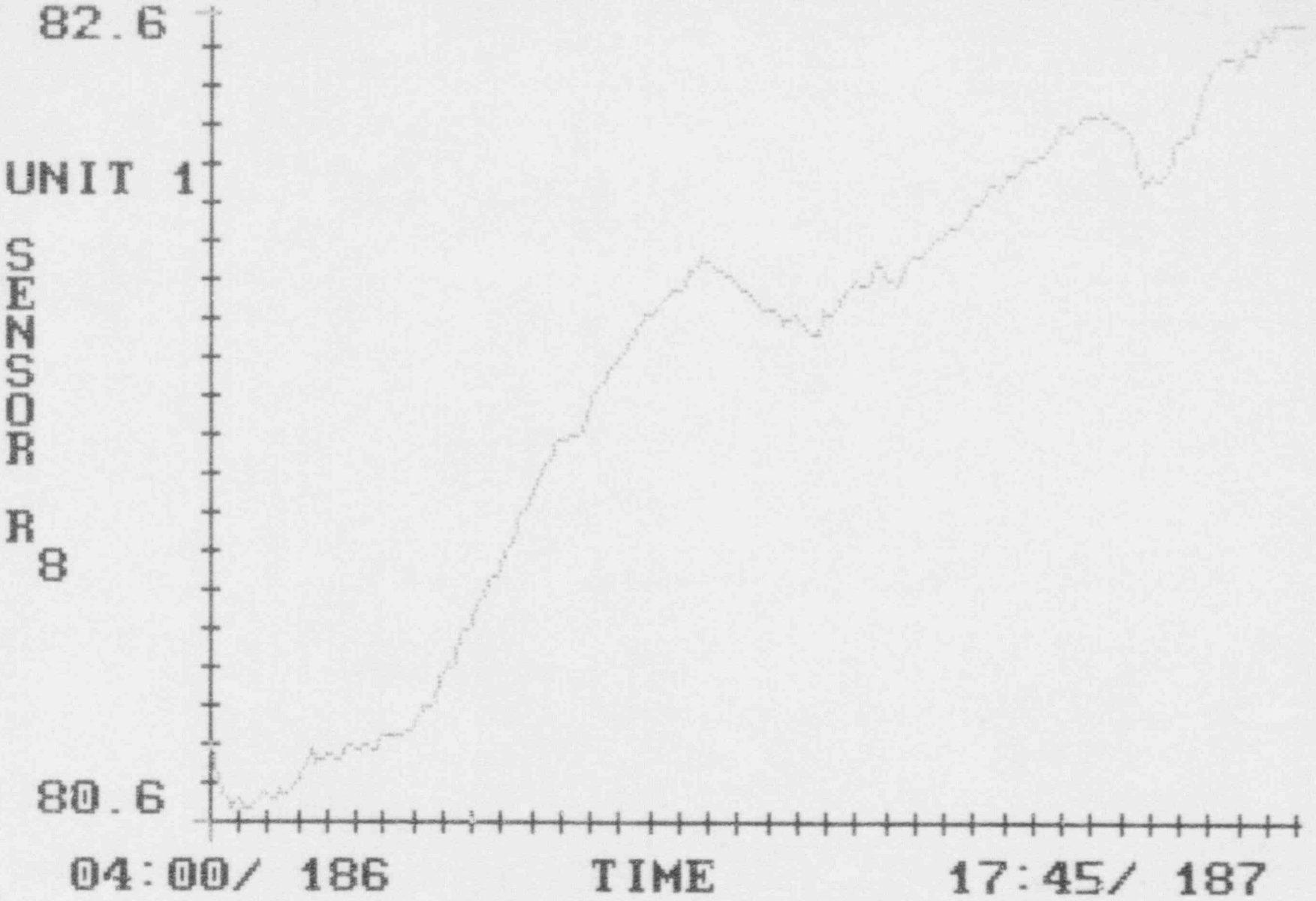

90.7
UNIT 1
SENSOR R3
87.9
04:00/ 186
TIME
17:45/ 187

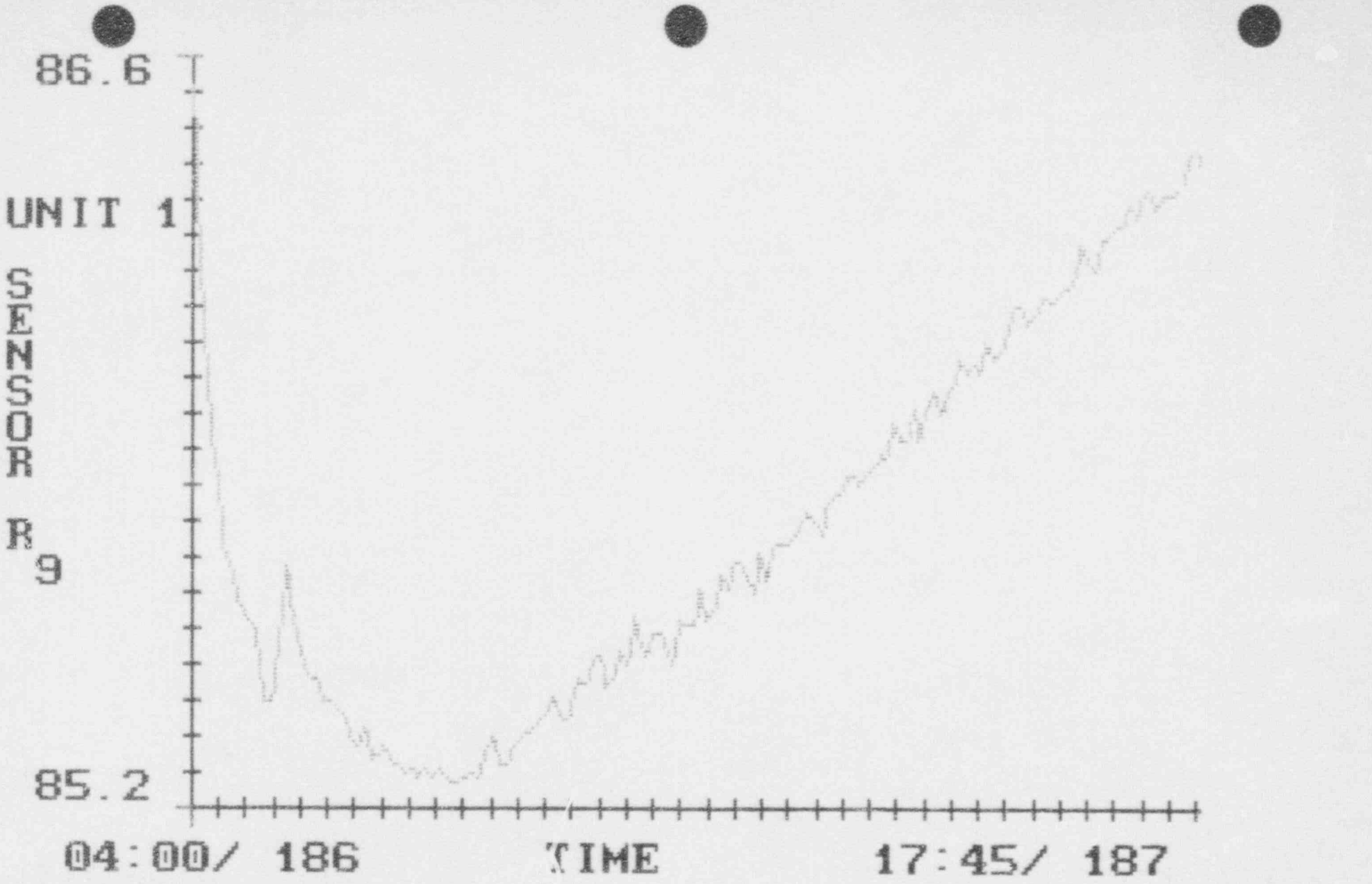

90.6
UNIT 1
SENSOR R4
88.4
04:00/ 186
TIME
17:45/ 187

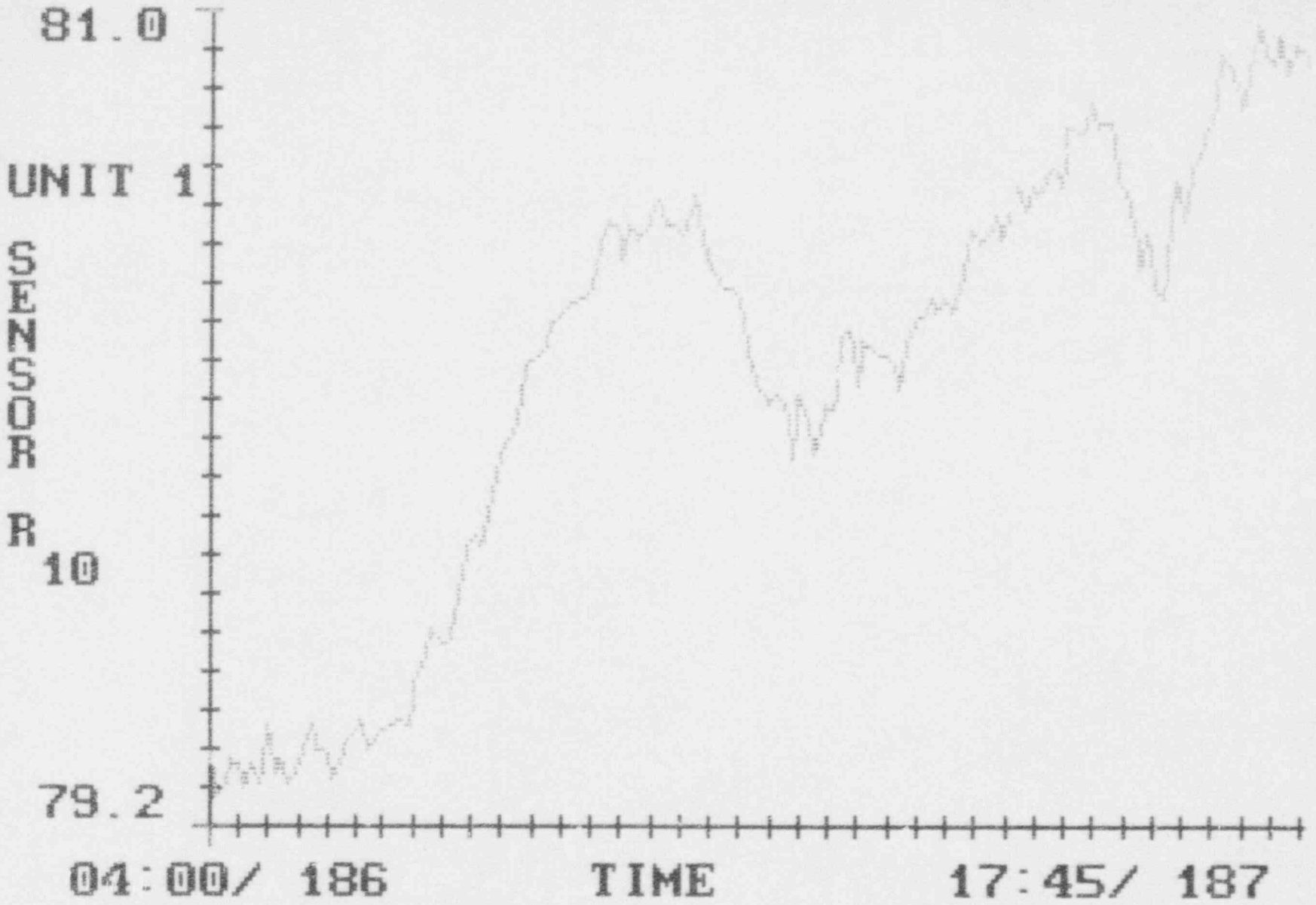

87.2
UNIT 1
SENSOR R5
85.6
04:00/ 186
TIME
17:45/ 187

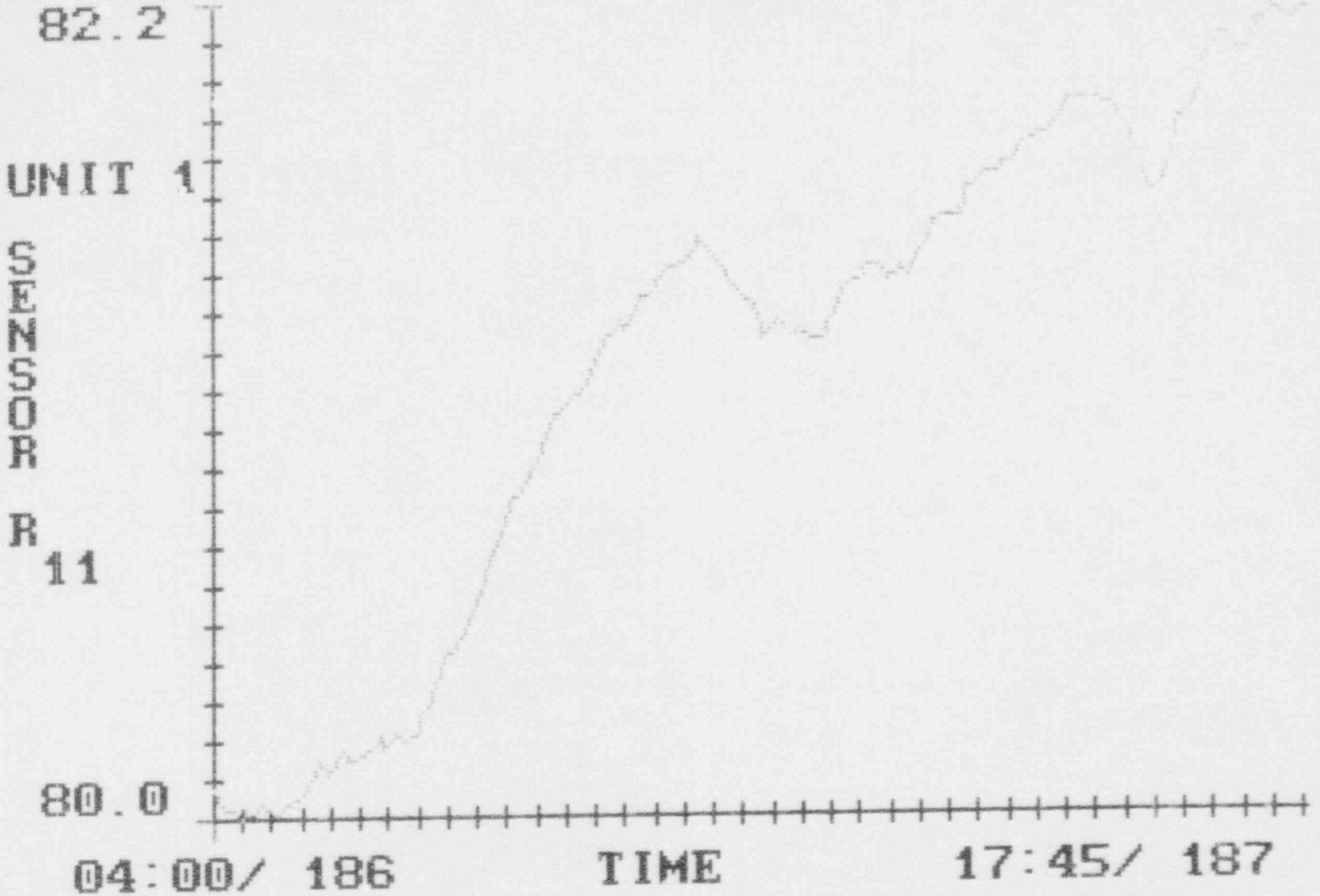

84.7
UNIT 1
SENSOR R6
82.5
04:00/ 186
TIME
17:45/ 187

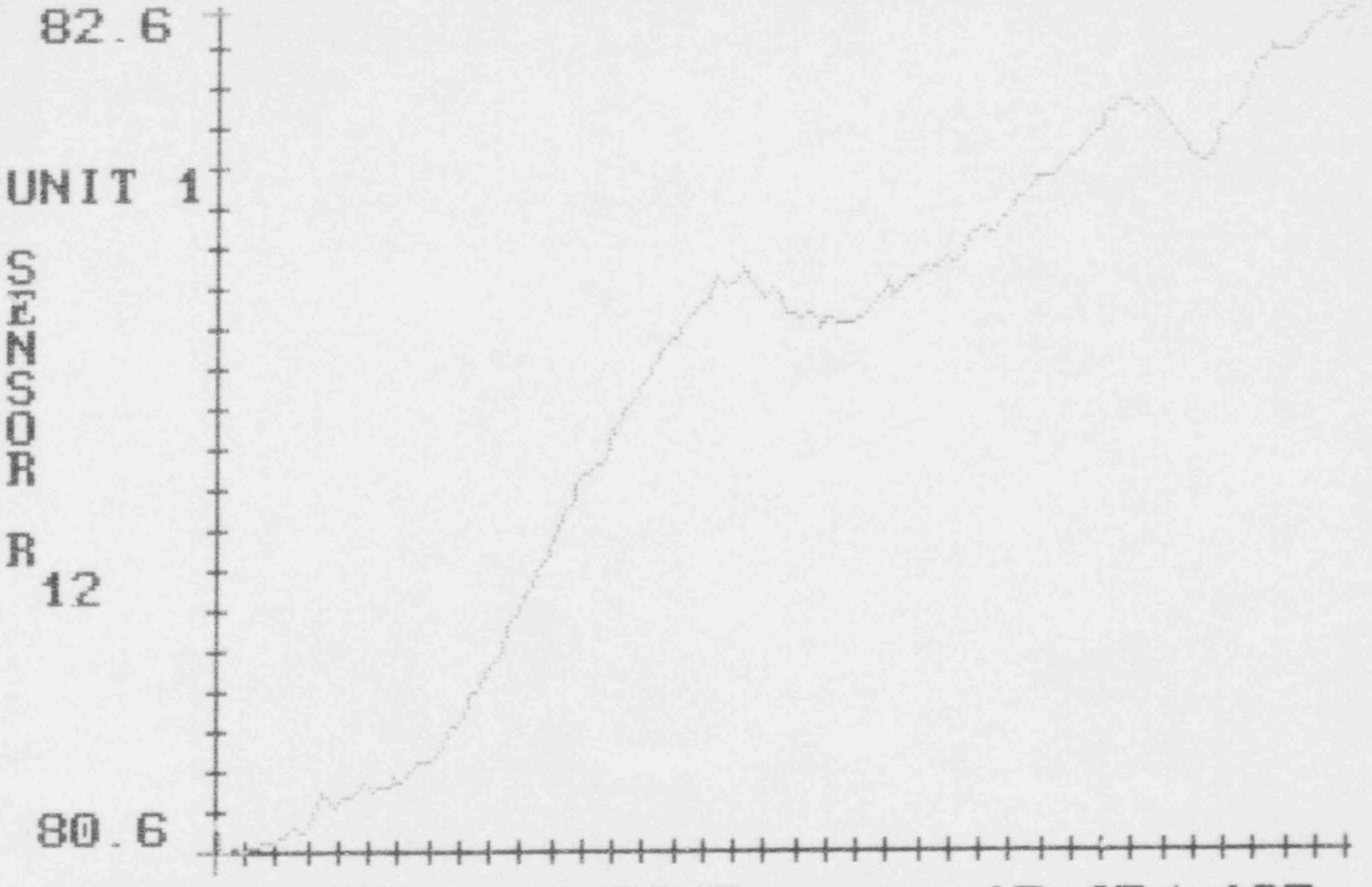

83.7
UNIT 1
SENSOR R7
81.7
04:00/ 186
TIME
17:45/ 187

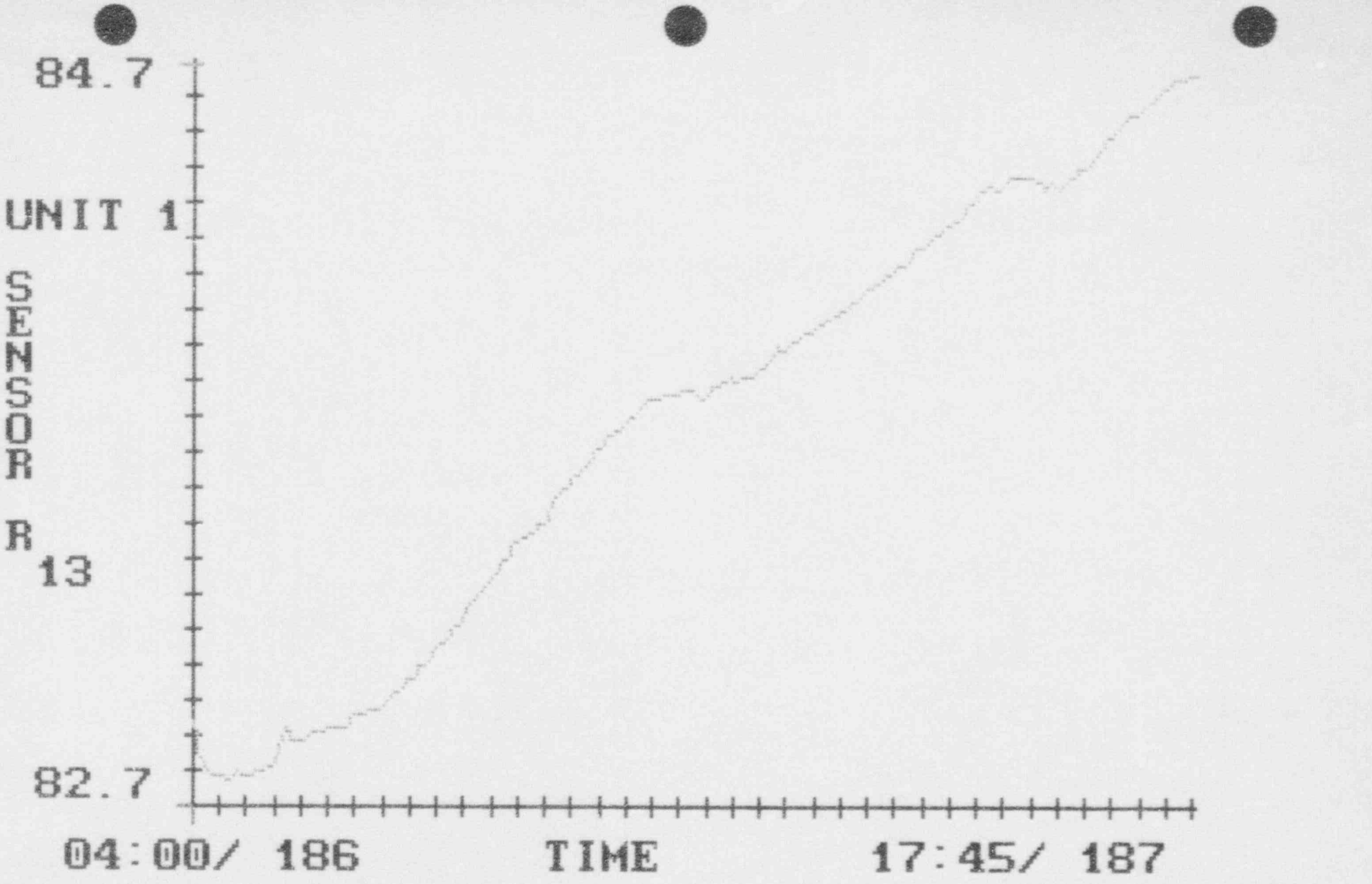

82.6
UNIT 1
SENSOR R8
80.6
04:00/ 186
TIME
17:45/ 187

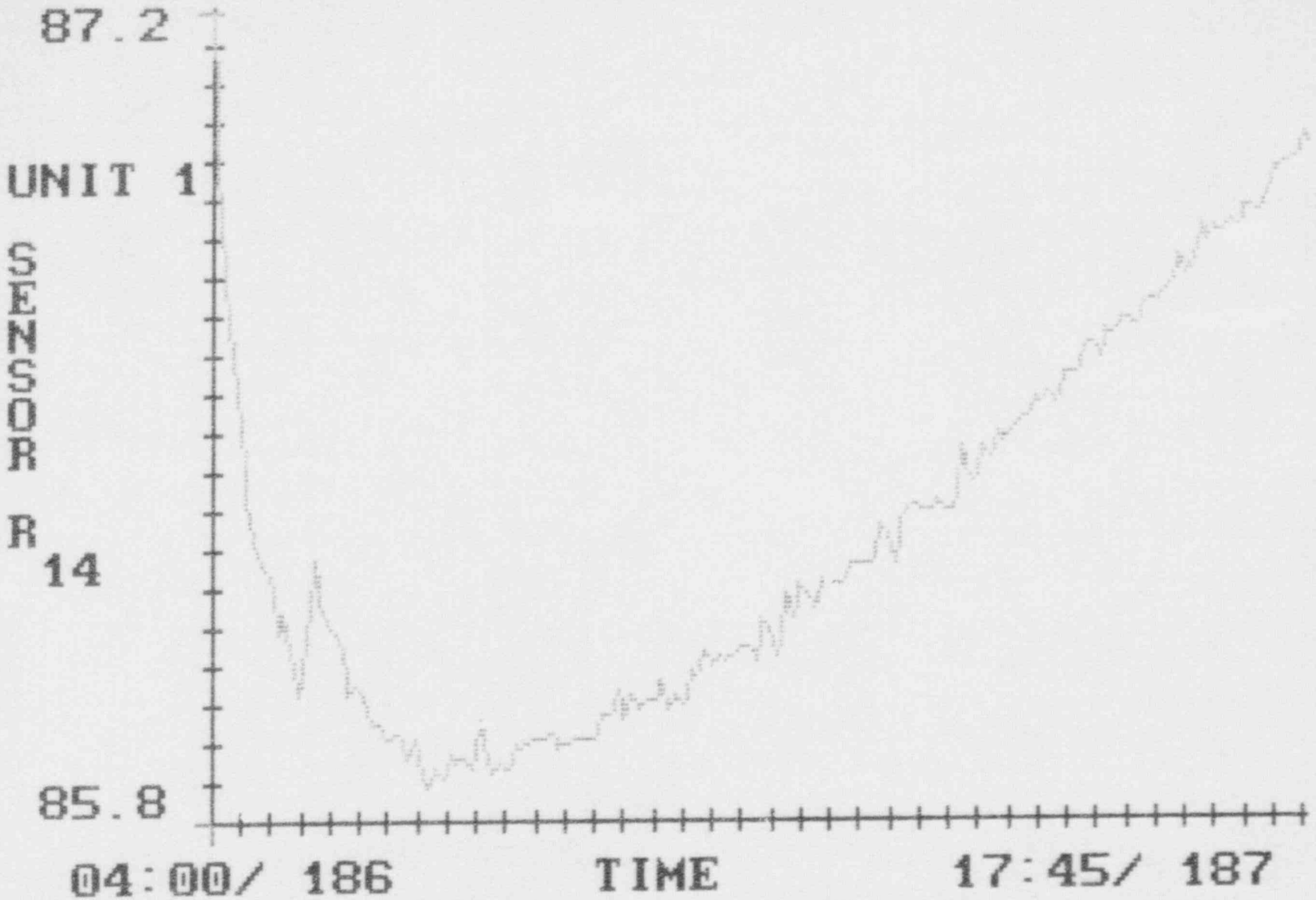

86.6
UNIT 1
SENSOR R 9
85.2
04:00/ 186
TIME
17:45/ 187

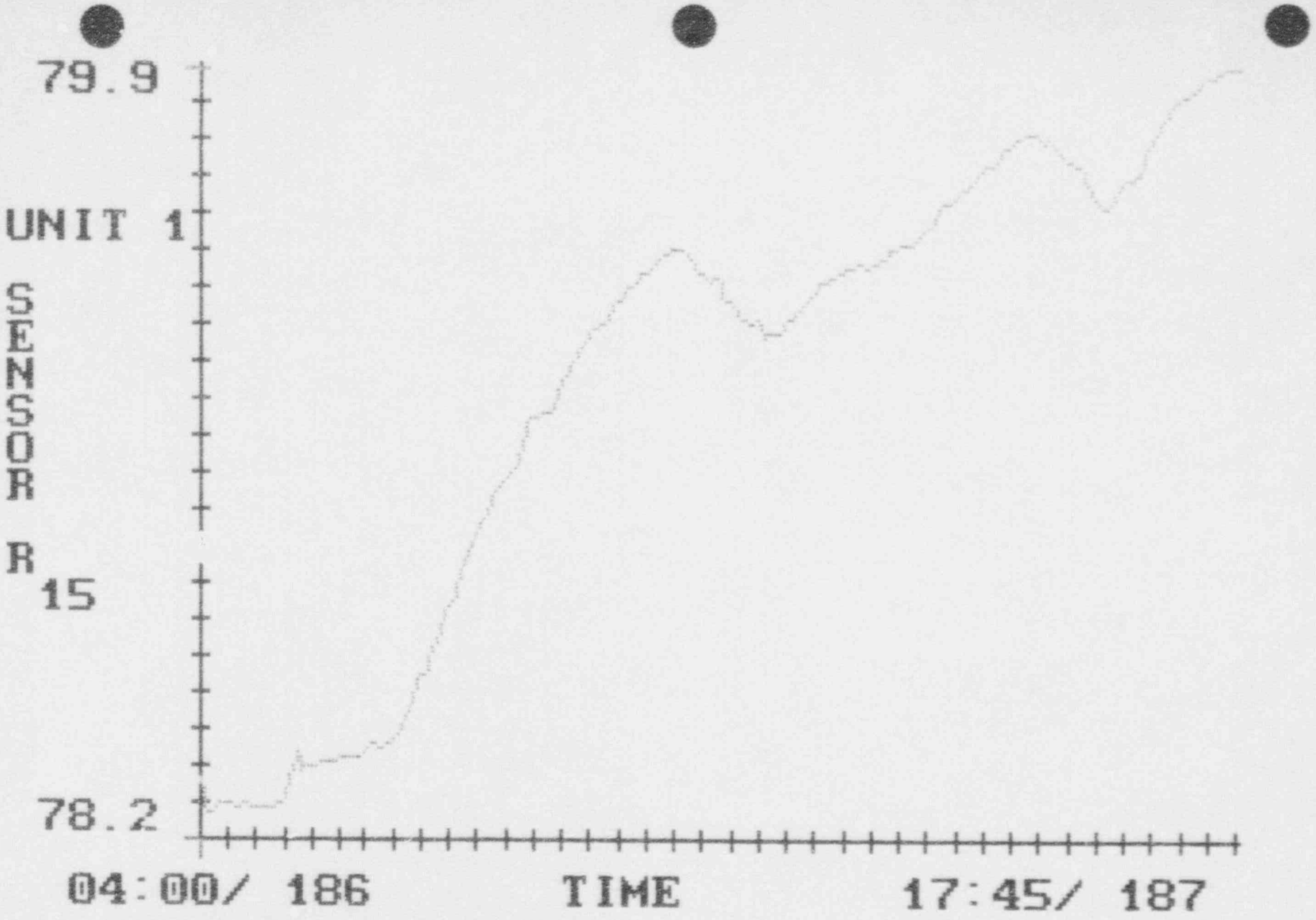

81.0
UNIT 1
SENSOR
R
10
79.2
04:00/ 186
TIME
17:45/ 187

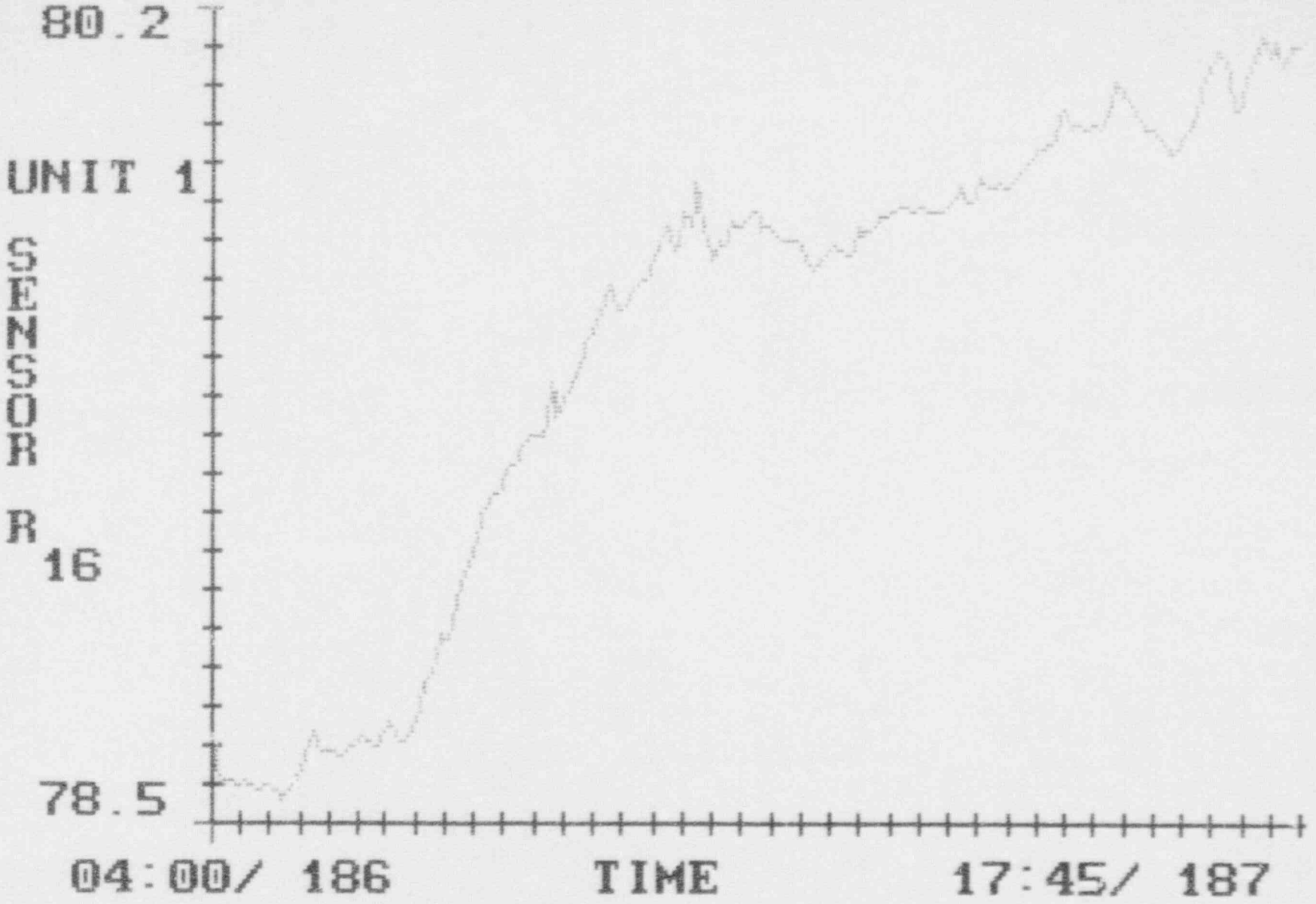

82.2
UNIT 1
SENSOR
R
11
80.0
04:00/ 186
TIME
17:45/ 187

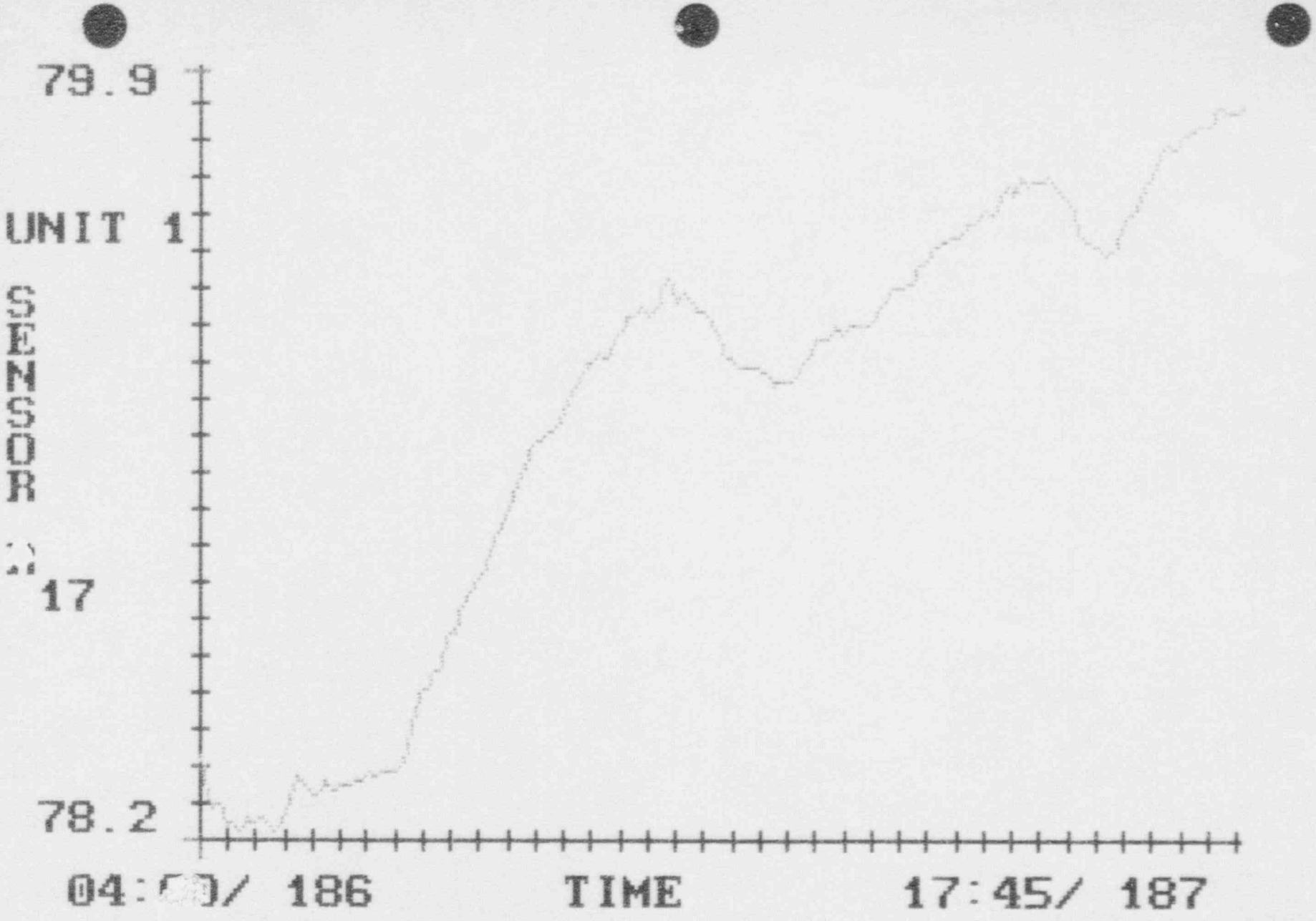

82.6
UNIT 1
SENSOR R
12
80.6
04:00/ 186
TIME
17:45/ 187

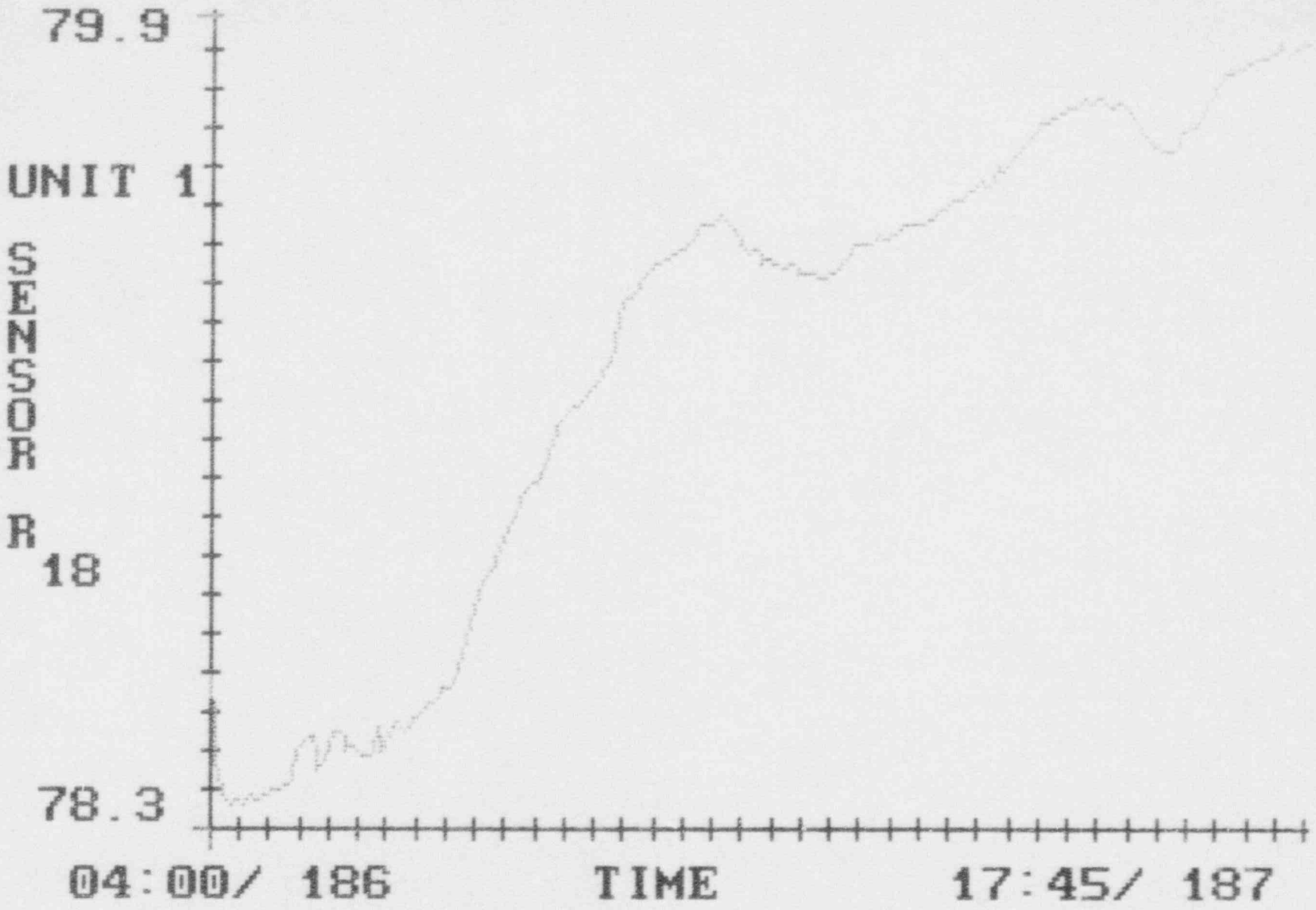

84.7
UNIT 1
SENSOR R
13
82.7
04:00/ 186
TIME
17:45/ 187

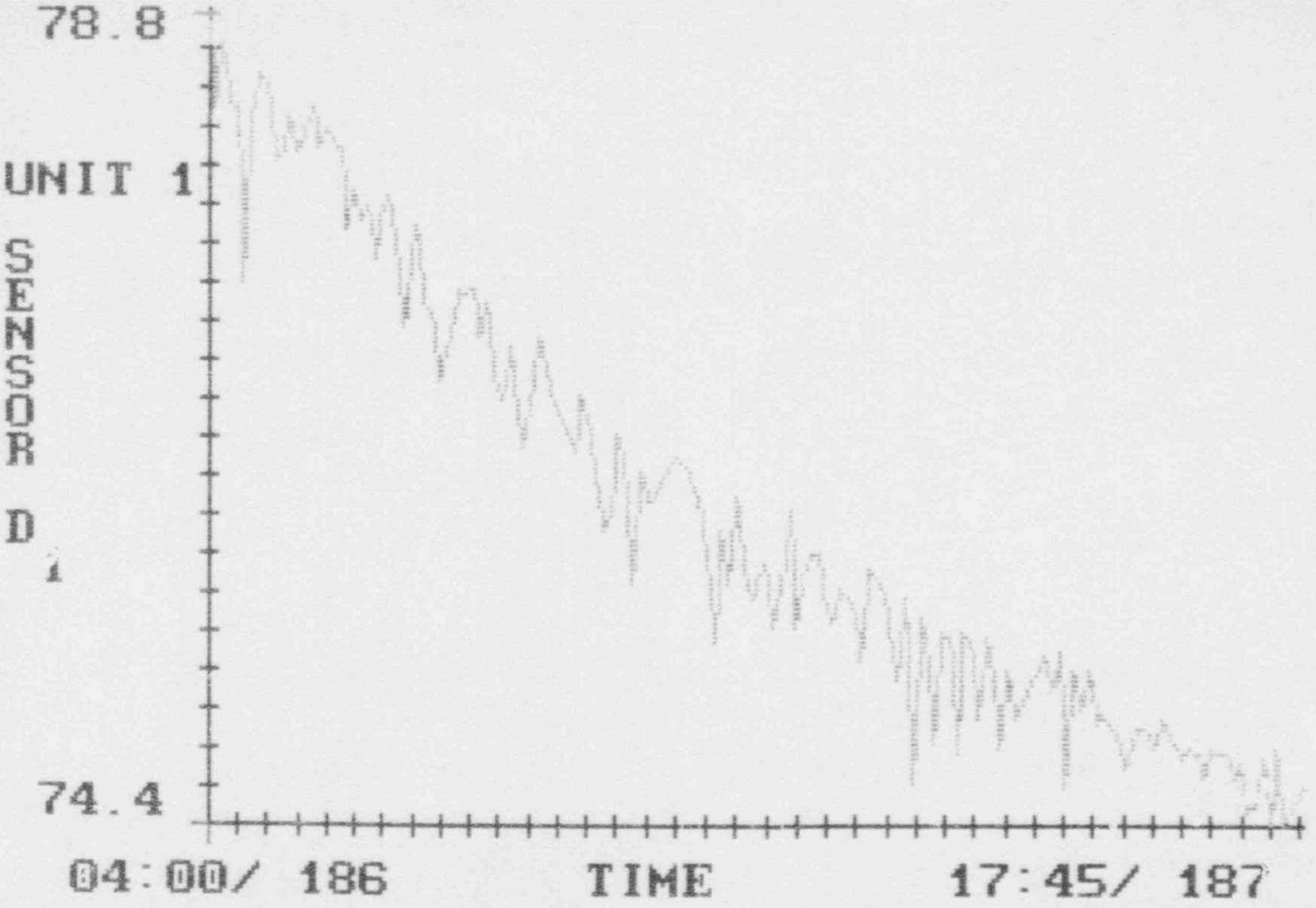

87.2
UNIT 1
SENSOR
R
14
85.8
04:00/ 186
TIME
17:45/ 187

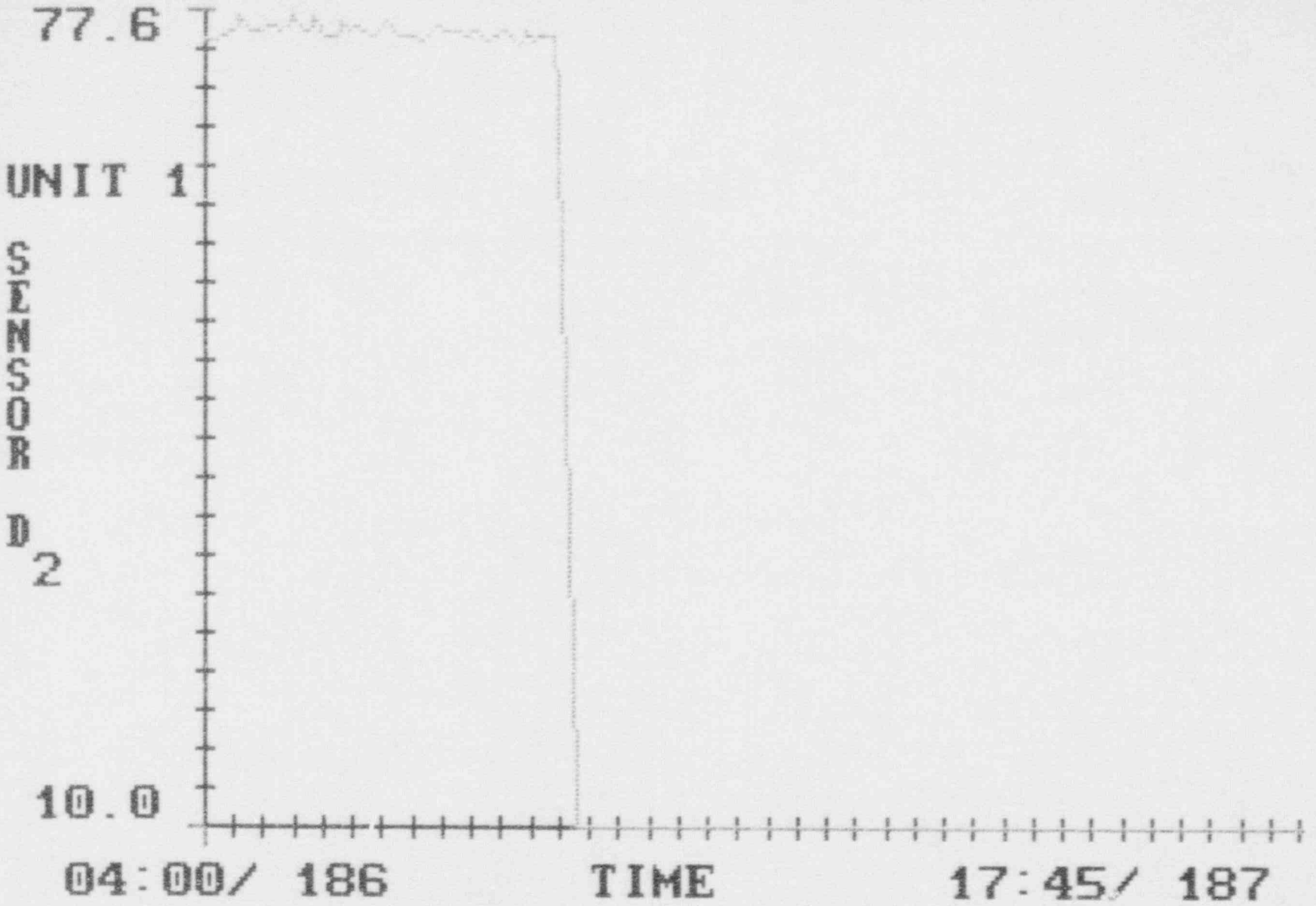

79.9
UNIT 1
SENSOR R
15
78.2
04:00/ 186
TIME
17:45/ 187

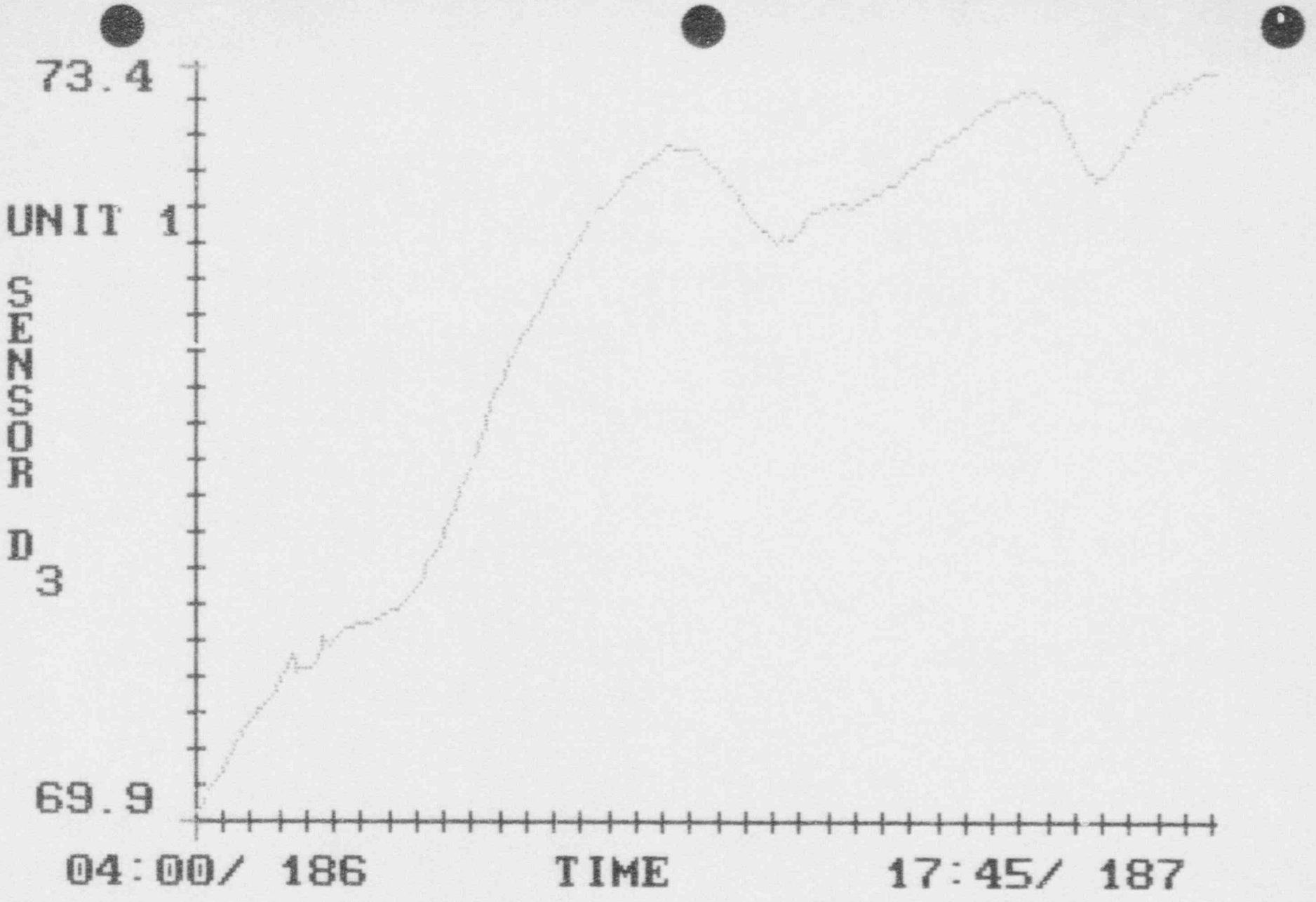

80.2
UNIT 1
SENSOR R
16
78.5
04:00/ 186
TIME
17:45/ 187

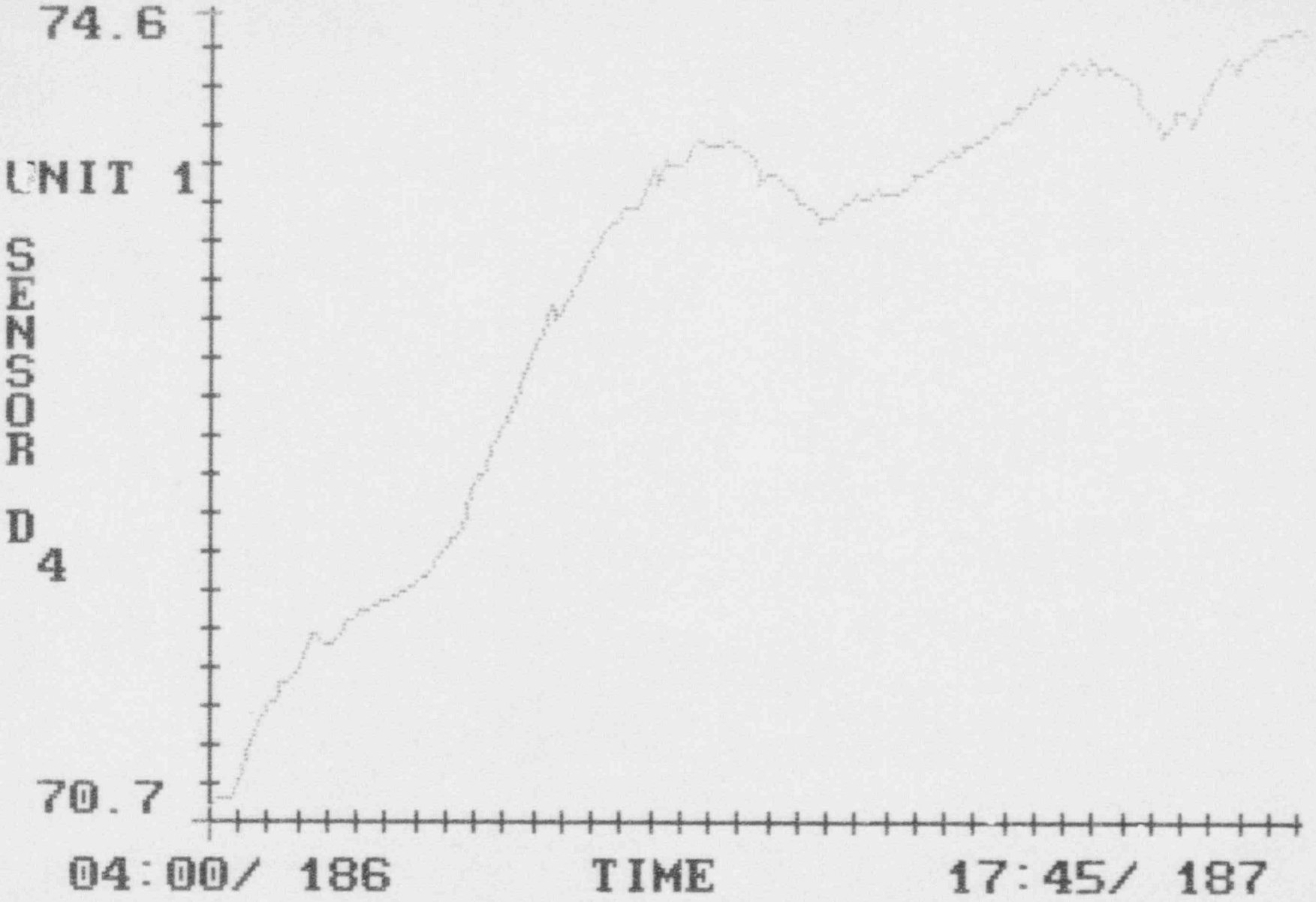

79.9
UNIT 1
SENSOR :
17
78.2
04:00/ 186
TIME
17:45/ 187

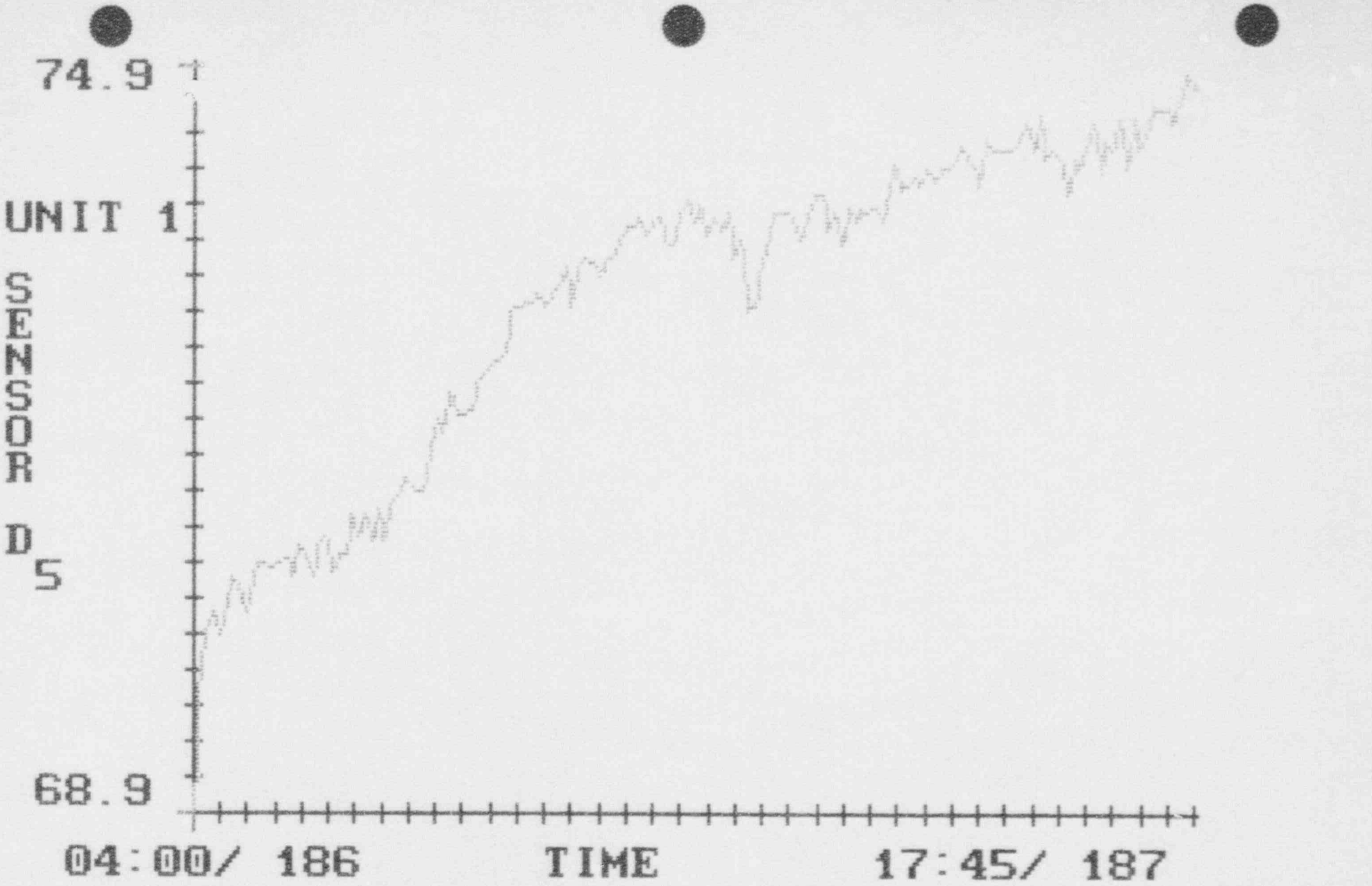

79.9
UNIT 1
SENSOR R
18
78.3
04:00/ 186
TIME
17:45/ 187

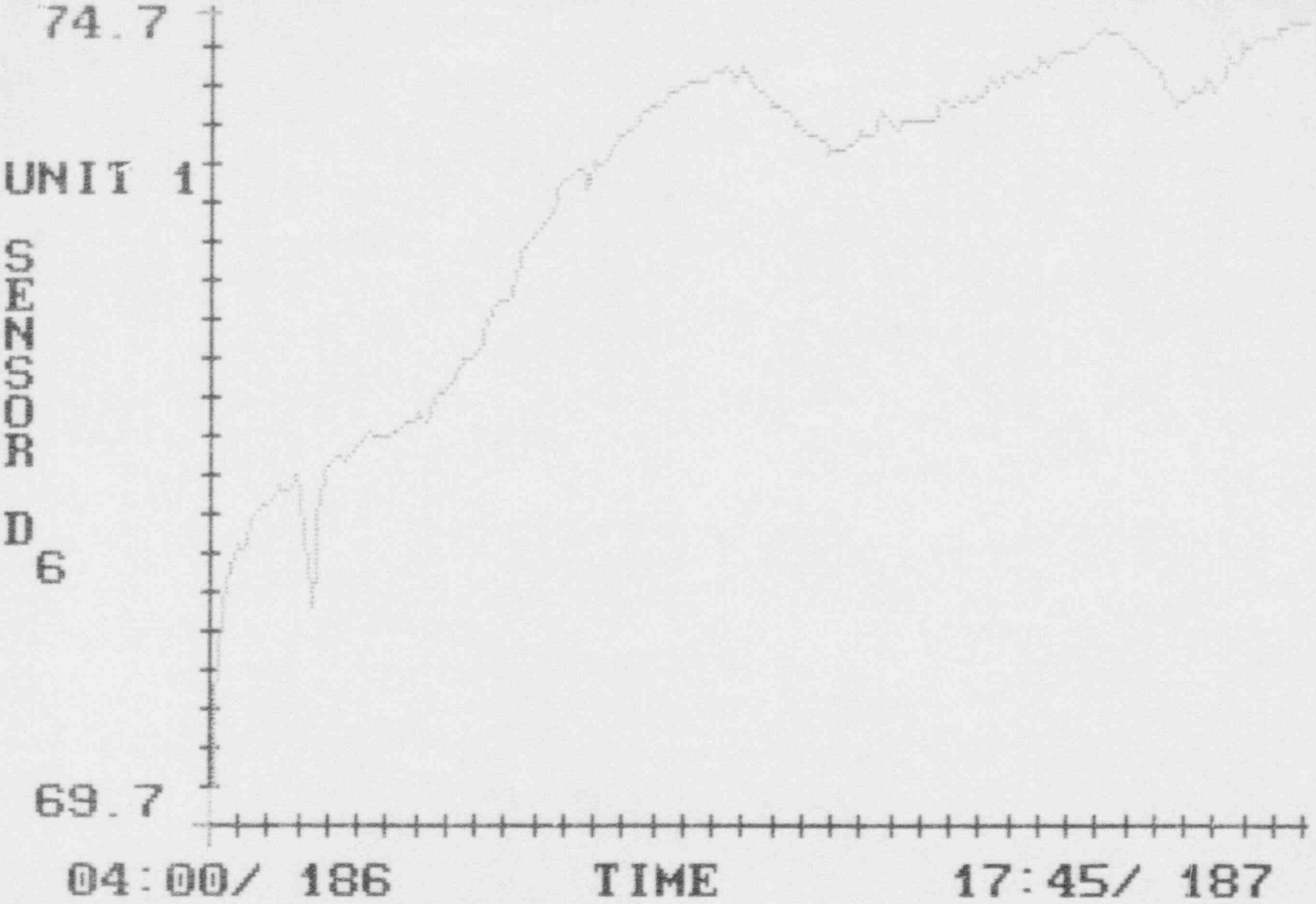

78.8
UNIT 1
SENSOR D1
74.4
04:00/ 186
TIME
17:45/ 187


77.6
UNIT 1
SENSOR D2
10.0
04:00/ 186
TIME
17:45/ 187


73.4
UNIT 1
SENSOR D3
69.9
04:00/ 186
TIME
17:45/ 187


74.6
UNIT 1
SENSOR D4
70.7
04:00/ 186
TIME
17:45/ 187


74.9
UNIT 1
SENSOR D5
68.9
04:00/ 186
TIME
17:45/ 187


74.7
UNIT 1
SENSOR
D
6
69.7
04:00/ 186
TIME
17:45/ 187

APPENDIX F

TEST DATA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 04:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66220	2	+66791

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+90.348	2	+90.577	3	+90.615
4	+90.527	5	+87.182	6	+82.693
7	+81.984	8	+80.802	9	+86.549
10	+79.364	11	+80.091	12	+80.682
13	+82.934	14	+87.188	15	+79.334
16	+78.692	17	+78.387	18	+78.602

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.746	2	+75.367
3	+69.952	4	+70.788
5	+68.934	6	+69.747

AVERAGE TEMPERATURE = +84.5455 DEG. F
AVERAGE PRESSURE = +65.1228 PSIA
MASS = +641964.38
AVG DEW POINT TEMP = +73.2362 DEG. F
AVG VAPOR PRESSURE = +0.4050 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 04:15

Pressure Instrusents in counts

channel	pressure	channel	pressure
1	+66191	2	+66759

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+89.938	2	+90.133	3	+90.126
4	+90.200	5	+86.892	6	+82.582
7	+81.790	8	+80.732	9	+86.319
10	+79.270	11	+80.065	12	+80.603
13	+82.852	14	+86.911	15	+78.271
16	+78.617	17	+78.326	18	+78.430

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.295	2	+75.282
3	+69.978	4	+70.806
5	+69.931	6	+70.529

AVERAGE TEMPERATURE = +84.3186 DEG. F
AVERAGE PRESSURE = +65.0929 PSIA
MASS = +641930.19
AVG DEW POINT TEMP = +73.2773 DEG. F
AVG VAPOR PRESSURE = +0.4055 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 04:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66170	2	+66739

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+89.675	2	+89.857	3	+89.833
4	+89.909	5	+86.683	6	+82.547
7	+81.773	8	+80.679	9	+86.068
10	+79.286	11	+80.030	12	+80.607
13	+82.817	14	+86.712	15	+78.270
16	+78.590	17	+78.276	18	+78.375

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.628	2	+75.306
3	+70.054	4	+70.817
5	+70.379	6	+71.127

AVERAGE TEMPERATURE = +84.1810 DEG. F
AVERAGE PRESSURE = +65.0728 PSIA
MASS = +641867.00
AVG DEW POINT TEMP = +73.4708 DEG. F
AVG VAPOR PRESSURE = +0.4082 PSIA

Calvert [illegible] Pts 1
INTEGR[illegible] LEAK RATE TEST
DATA [illegible] SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 04:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66157	2	+66724

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+89.422	2	+89.625	3	+89.555
4	+89.750	5	+86.563	6	+82.556
7	+81.794	8	+80.636	9	+85.890
10	+79.350	11	+80.035	12	+80.612
13	+82.791	14	+86.584	15	+78.285
16	+78.593	17	+78.285	18	+78.352

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.303	2	+75.825
3	+70.105	4	+70.822
5	+70.523	6	+71.321

AVERAGE TEMPERATURE = +84.0861 DEG. F
AVERAGE PRESSURE = +65.0591 PSIA
MASS = +641831.00
AVG DEW POINT TEMP = +73.5578 DEG. F
AVG VAPOR PRESSURE = +0.4094 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 05:00

Pressure Instruments in psia

channel	pressure	channel	pressure
1	+66146	2	+66713

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+89.239	2	+89.459	3	+89.366
4	+89.637	5	+86.430	6	+82.566
7	+81.749	8	+80.665	9	+85.795
10	+79.348	11	+80.004	12	+80.609
13	+82.791	14	+86.482	15	+78.282
16	+78.585	17	+78.234	18	+78.360

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.295	2	+76.066
3	+70.153	4	+70.913
5	+70.359	6	+71.434

AVERAGE TEMPERATURE = +84.0107 DEG. F
AVERAGE PRESSURE = +65.0483 PSIA
MASS = +641803.06
AVG DEW POINT TEMP = +73.6301 DEG. F
AVG VAPOR PRESSURE = +0.4104 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 05:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66136	2	+66704

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+89.090	2	+89.375	3	+89.224
4	+89.443	5	+86.303	6	+82.562
7	+81.755	8	+80.644	9	+85.690
10	+79.295	11	+80.036	12	+80.615
13	+82.792	14	+86.344	15	+78.282
16	+78.599	17	+78.245	18	+78.350

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.343	2	+77.207
3	+70.208	4	+70.999
5	+70.536	6	+71.412

AVERAGE TEMPERATURE = +83.9454 DEG. F
AVERAGE PRESSURE = +65.0390 PSIA
MASS = +641776.63
AVG DEW POINT TEMP = +73.7114 DEG. F
AVG VAPOR PRESSURE = +0.4115 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 05:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66131	2	+66697

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+89.022	2	+89.245	3	+89.158
4	+89.433	5	+86.212	6	+82.585
7	+81.747	8	+80.642	9	+85.658
10	+79.348	11	+80.020	12	+80.618
13	+82.783	14	+86.283	15	+78.275
16	+78.591	17	+78.230	18	78.373

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.241	2	+76.463
3	+70.257	4	+71.115
5	+70.799	6	+71.582

AVERAGE TEMPERATURE = +83.9128 DEG. F
AVERAGE PRESSURE = +65.0332 PSIA
MASS = +641743.13
AVG DEW POINT TEMP = +73.8116 DEG. F
AVG VAPOR PRESSURE = +0.4129 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 05:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66122	2	+66690

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.690	2	+89.128	3	+89.062
4	+89.352	5	+86.120	6	+82.563
7	+81.765	8	+80.664	9	+85.588
10	+79.306	11	+80.043	12	+80.635
13	+82.798	14	+86.247	15	+78.282
16	+78.575	17	+78.260	18	+78.363

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.465	2	+76.345
3	+70.333	4	+71.192
5	+70.689	6	+71.661

AVERAGE TEMPERATURE = +83.8707 DEG. F
AVERAGE PRESSURE = +65.0253 PSIA
MASS = +641708.19
AVG DEW POINT TEMP = +73.8610 DEG. F
AVG VAPOR PRESSURE = +0.4136 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 06:00

Pressure instruments in counts

channel	pressure	channel	pressure
1	+66118	2	+66684

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.803	2	+89.039	3	+89.935
4	+89.250	5	+86.070	6	+82.594
7	+81.771	8	+80.677	9	+85.560
10	+79.429	11	+80.036	12	+80.633
13	+82.785	14	+86.232	15	+78.279
16	+78.581	17	+78.247	18	+78.369

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.395	2	+76.335
3	+70.379	4	+71.267
5	+70.536	6	+71.670

AVERAGE TEMPERATURE = +83.6398 DEG. F
AVERAGE PRESSURE = +65.020A PSIA
MASS = +8416?7.44
AVG DEW POINT TEMP = +73.0803 DEG. F
AVG VAPOR PRESSURE = +0.4134 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 19s
TIME : 09:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66111	2	+66679

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+80.722	2	+88.967	3	+88.874
4	+89.157	5	+85.998	6	+82.605
7	+81.771	8	+80.667	9	+95.542
10	+79.318	11	+80.023	12	+80.645
13	+82.794	14	+86.131	15	+78.280
16	+78.575	17	+78.251	18	+78.382

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.001	2	+76.788
3	+70.428	4	+71.296
5	+70.863	6	+71.733

AVERAGE TEMPERATURE = +83.8000 DEG. F
AVERAGE PRESSURE = +65.0145 PSIA
MASS = +641677.38
AVG DEW POINT TEMP = +73.9134 DEG. F
AVG VAPOR PRESSURE = +0.4143 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 06:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66196	2	+66674

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.639	2	+88.876	3	+88.835
4	+89.093	5	+85.977	6	+82.606
7	+81.774	8	+80.691	9	+85.510
10	+79.357	11	+80.038	12	+80.639
13	+82.797	14	+86.160	15	+78.276
16	+78.558	17	+78.242	18	+78.379

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.028	2	+76.553
3	+70.436	4	+71.379
5	+70.903	6	+71.789

AVERAGE TEMPERATURE = +83.7808 DEG. F
AVERAGE PRESSURE = +65.0097 PSIA
MASS = +641655.13
AVG DEW POINT TEMP = +73.8865 DEG. F
AVG VAPOR PRESSURE = +0.4139 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 06:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66104	2	+66670

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.598	2	+88.827	3	+88.774
4	+89.071	5	+83.925	6	+82.640
7	+81.905	8	+80.674	9	+85.401
10	+79.299	11	+80.049	12	+80.665
13	+82.801	14	+86.088	15	+78.276
16	+78.579	17	+78.230	18	+78.392

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.250	2	+76.348
3	+70.478	4	+71.382
5	+70.924	6	+71.759

AVERAGE TEMPERATURE = +83.7551 DEG. F
AVERAGE PRESSURE = +65.0067 PSIA
MASS = +641654.31
AVG DEW POINT TEMP = +73.8997 DEG. F
AVG VAPOR PRESSURE = +0.4141 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 07:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66100	2	+66667

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.548	2	+88.760	3	+88.739
4	+89.076	5	+85.881	6	+82.609
7	+81.811	8	+80.702	9	+85.401
10	+79.335	11	+80.064	12	+80.659
13	+82.817	14	+86.024	15	+78.289
16	+78.611	17	+78.253	18	+78.454

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.056	2	+77.377
3	+70.535	4	+71.432
5	+70.869	6	+71.870

AVERAGE TEMPERATURE = +83.7476 DEG. F
AVERAGE PRESSURE = +65.0033 PSIA
MASS = +641599.13
AVG DEW POINT TEMP = +74.1172 DEG. F
AVG VAPOR PRESSURE = +0.4171 PSIA

SUMMARY OF MEASURED DATA

Calvert cliffs 1

DATE: 186 TIME: 07:30

TEMP RTD	1	= +88.732	DEG. F
TEMP RTD	2	= +88.961	DEG. F
TEMP RTD	3	= +88.914	DEG. F
TEMP RTD	4	= +89.259	DEG. F
TEMP RTD	5	= +86.125	DEG. F
TEMP RTD	6	= +82.693	DEG. F
TEMP RTD	7	= +81.868	DEG. F
TEMP RTD	8	= +80.790	DEG. F
TEMP RTD	9	= +85.652	DEG. F
TEMP RTD	10	= +79.432	DEG. F
TEMP RTD	11	= +80.142	DEG. F
TEMP RTD	12	= +80.748	DEG. F
TEMP RTD	13	= +82.925	DEG. F
TEMP RTD	14	= +86.256	DEG. F
TEMP RTD	15	= +78.395	DEG. F
TEMP RTD	16	= +78.697	DEG. F
TEMP RTD	17	= +78.346	DEG. F
TEMP RTD	18	= +78.489	DEG. F

PRESS GAUGE 1	= +66.326	COUNTS
PRESS GAUGE 2	= +66.894	COUNTS

DEW CELL TEMP 1	= +78.294	DEG. F
DEW CELL TEMP 2	= +76.370	DEG. F
DEW CELL TEMP 3	= +70.672	DEG. F
DEW CELL TEMP 4	= +71.617	DEG. F
DEW CELL TEMP 5	= +70.941	DEG. F
DEW CELL TEMP 6	= +71.066	DEG. F

AVERAGE TEMPERATURE	= +0.000	DEG. F
AVERAGE PRESSURE	= +0.000	PSIA
AVERAGE DEW TEMP	= +0.000	DEG. F
AVERAGE VPR PRESS	= +0.000	PSIA

calvert cliffs 0
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 07:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66317	2	+66894

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.607	2	+88.830	3	+88.813
4	+89.137	5	+86.073	6	+82.701
7	81.848	8	+80.752	9	+85.585
10	+79.374	11	+80.163	12	+80.735
13	+82.881	14	+86.175	15	+78.360
16	+78.663	17	+78.332	18	+78.419

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.070	2	+77.522
3	+70.605	4	+71.618
5	+70.820	6	+71.637

AVERAGE TEMPERATURE = +83.8269 DEG. F
AVERAGE PRESSURE = +65.2218 PSIA
MASS = +0.00
AVG DEW POINT TEMP = +74.1697 DEG. F
AVG VAPOR PRESSURE = +0.4179 PSIA

Calvert cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 08:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66311	2	+66877

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.528	2	+88.743	3	+88.723
4	+89.094	5	+86.035	6	+82.720
7	+81.851	8	+80.761	9	+85.513
10	+79.382	11	+80.130	12	+80.715
13	+82.881	14	+86.148	15	+78.367
16	+78.656	17	+78.317	18	+78.443

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.186	2	+76.072
3	+70.620	4	+71.560
5	+71.051	6	+71.878

AVERAGE TEMPERATURE = +83.7952 DEG. F
AVERAGE PRESSURE = +65.2159 PSIA
MASS = +543684.69
AVG DEW POINT TEMP = +73.8989 DEG. F
AVG VAPOR PRESSURE = +0.4141 PSIA

SUMMARY OF MEASURED DATA

Calvert cliffs 1

DATE: 186 TIME: 08:15

TEMP RTD	1	= +88.453	DEG. F
TEMP RTD	2	= +88.661	DEG. F
TEMP RTD	3	= +88.639	DEG. F
TEMP RTD	4	= +88.986	DEG. F
TEMP RTD	5	= +85.961	DEG. F
TEMP RTD	6	= +82.722	DEG. F
TEMP RTD	7	= +81.835	DEG. F
TEMP RTD	8	= +80.773	DEG. F
TEMP RTD	9	= +85.463	DEG. F
TEMP RTD	10	= +79.312	DEG. F
TEMP RTD	11	= +80.159	DEG. F
TEMP RTD	12	= +80.737	DEG. F
TEMP RTD	13	= +82.888	DEG. F
TEMP RTD	14	= +86.131	DEG. F
TEMP RTD	15	= +78.364	DEG. F
TEMP RTD	16	= +78.657	DEG. F
TEMP RTD	17	= +78.309	DEG. F
TEMP RTD	18	= +78.495	DEG. F

PRESS GAUGE 1	= +66.306	COUNTS
PRESS GAUGE 2	= +66.872	COUNTS

DEW CELL TEMP 1	= +78.093	DEG. F
DEW CELL TEMP 2	= +75.900	DEG. F
DEW CELL TEMP 3	= +70.629	DEG. F
DEW CELL TEMP 4	= +71.580	DEG. F
DEW CELL TEMP 5	= +70.939	DEG. F
DEW CELL TEMP 6	= +71.937	DEG. F

AVERAGE TEMP. RATURE	= +0.000	DEG. F
AVERAGE PRESSURE	= +0.000	PSIA
AVERAGE DEW TEMP	= +0.000	DEG. F
AVERAGE VPR PRESS	= +0.000	PSIA

Calvert cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 08:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66301	2	+66868

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.392	2	+88.607	3	+88.598
4	+88.954	5	+85.946	6	+82.72[illegible]
7	+81.861	8	+80.764	9	+85.446
10	+79.350	11	+80.186	12	+80.732
13	+82.905	14	+86.094	15	+78.378
16	+78.642	17	+78.332	18	+78.498

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.070	2	+75.897
3	+70.669	4	+71.609
5	+70.796	6	+71.981

AVERAGE TEMPERATURE = +83.7475 DEG. F
AVERAGE PRESSURE = +65.2060 PSIA
MASS = +643652.38
AVG DEW POINT TEMP = +73.8361 DEG. F
AVG VAPOR PRESSURE = +0.4132 PSIA

Calvert cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 08:45

Pressure Instrumentr in counts

channel	pressure	channel	pressure
1	+66298	2	+66864

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.354	2	+88.546	3	+88.562
4	+88.938	5	+85.893	6	+82.736
7	+81.866	8	+80.786	9	+85.449
10	+79.388	11	+80.168	12	+80.749
13	+82.914	14	+86.021	15	+78.378
16	+78.657	17	+78.331	18	+78.460

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.642	2	+76.867
3	+70.762	4	+71.666
5	+71.061	6	+71.952

AVERAGE TEMPERATURE = +83.7316 DEG. F
AVERAGE PRESSURE = +65.2031 PSIA
MASS = +643617.63
AVG DEW POINT TEMP = +74.0110 DEG. F
AVG VAPOR PRESSURE = +0.4187 PSIA

Calvert cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 09:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66298	2	+66861

in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.284	2	+88.504	3	+88.505
4	+88.821	5	+85.818	6	+82.731
7	+81.892	8	+80.793	9	+85.403
10	+79.405	11	+80.165	12	+80.767
13	+82.913	14	+86.035	15	+78.378
16	+78.663	17	+78.315	18	+78.466

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.856	2	+76.361
3	+70.723	4	+71.685
5	+71.131	6	+71.998

AVERAGE TEMPERATURE = +83.7059 DEG. F
AVERAGE PRESSURE = +65.2031 PSIA
MASS = +643657.00
AVG DEW POINT TEMP = +73.9472 DEG. F
AVG VAPOR PRESSURE = +0.4148 PSIA

Calvert cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 18o
TIME : 09:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66293	2	+66858

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.246	2	+88.476	3	+88.446
4	+88.809	5	+85.815	6	+82.782
7	+81.883	8	+80.789	9	+85.400
10	+79.443	11	+80.175	12	+80.746
13	+82.923	14	+86.016	15	+78.384
16	+78.686	17	+78.329	18	+78.443

Dow Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.688	2	+7o.4~4
3	+70.767	4	+7).722
5	+70.843	6	~/2.058

AVERAGE TEMPERATURE = +83.6964 DEG. F
AVERAGE PRESSURE = +65.1982 PSIA
MASS = +643621.81
AVG DEW POINT TEMP = +77.9295 DEG. F
AVG VAPOR PRESSURE = 4 .4145 PSIA

Calvert cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 09:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66292	2	+66856

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.194	2	+88.424	3	+88.436
4	+88.839	5	+85.829	6	+82.791
7	+81.290	8	+80.802	9	+85.389
10	+79.377	11	+80.191	12	+80.766
13	+82.922	14	+85.975	15	+78.389
16	+78.680	17	+78.329	18	+78.447

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.771	2	+76.216
3	+70.802	4	+71.727
5	+70.990	6	+72.122

AVERAGE TEMPERATURE = +83.6886 DEG. F
AVERAGE PRESSURE = +65.1625 PSIA
MASS = +643477.50
AVG DEW POINT TEMP = +73.9164 DEG. F
AVG VAPOR PRESSURE = +0.4143 PSIA

Calvert cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 09:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66288	2	+66852

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.156	2	+88.411	3	+88.418
4	+86.789	5	+85.810	6	+82.789
7	+81.897	8	+80.789	9	+85.363
10	+79.394	11	+80.230	12	+80.764
13	+82.920	14	+85.971	15	+78.387
16	+78.671	17	+78.335	18	+79.508

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.482	2	+75.715
3	+70.809	4	+71.760
5	+70.980	6	+72.091

AVERAGE TEMPERATURE = +83.6816 DEG. F
AVERAGE PRESSURE = +65.1786 PSIA
MASS = +643471.63
AVG DEW POINT TEMP = +73.7362 DEG. F
AVG VAPOR PRESSURE = +0.4118 PSIA

Calvert cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 10:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66287	2	+66851

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.143	2	+88.391	3	+88.369
4	+86.819	5	+85.774	6	+82.809
7	+81.893	8	+80.810	9	+85.339
10	+79.405	11	+80.195	12	+80.781
13	+82.940	14	+85.957	15	+78.392
16	+78.692	17	+78.341	18	+78.454

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.708	2	+76.269
3	+70.817	4	+71.775
5	+71.313	6	+72.085

AVERAGE TEMPERATURE = +83.6727 DEG. F
AVERAGE PRESSURE = +65.1777 PSIA
MASS = +643443.31
AVG DEW POINT TEMP = +73.9490 DEG. F
AVG VAPOR PRESSURE = +0.4148 PSIA

Calvert cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 10:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66286	2	+66850

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.093	2	+88.348	3	+88.345
4	+88.772	5	+85.781	6	+82.801
7	+81.906	8	+80.818	9	+85.325
10	+79.423	11	+80.215	12	+80.772
13	+82.950	14	+85.943	15	+78.410
16	+78.717	17	+78.352	18	+79.494

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.827	2	+76.860
3	+70.826	4	+71.783
5	+71.128	6	+72.082

AVERAGE TEMPERATURE = +83.6666 DEG. F
AVERAGE PRESSURE = +65.1767 PSIA
MASS = +643419.81
AVG DEW POINT TEMP = +74.0996 DEG. F
AVG VAPOR PRESSURE = +0.4169 PSIA

Calvert cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 10:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66283	2	+66848

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.084	2	+88.313	3	+88.314
4	+88.729	5	+85.751	6	+82.812
7	+81.912	8	+80.818	9	+85.350
10	+79.434	11	+80.224	12	+80.795
13	+82.955	14	+85.958	15	+78.414
16	+78.692	17	+78.347	18	+78.511

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.537	2	+76.104
3	+70.837	4	+71.810
5	+71.327	6	+72.133

AVERAGE TEMPERATURE = +83.6597 DEG. F
AVERAGE PRESSURE = +65.1747 PSIA
MASS = +643438.38
AVG DEW POINT TEMP = +73.8851 DEG. F
AVG VAPOR PRESSURE = +0.4139 PSIA

CALVERT CLIFFS 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 10:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66782	2	+66846

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+83.047	2	+88.281	3	+88.319
4	+88.650	5	+85.726	6	+82.806
7	+81.922	8	+80.818	9	+85.293
10	+79.446	11	+80.221	12	+[illegible].824
13	+82.968	14	+85.911	15	+78.410
16	+78.678	17	+78.360	18	+78.495

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.121	2	+75.877
3	+70.852	4	+71.817
5	+71.104	6	+72.174

AVERAGE TEMPERATURE = +83.6433 DEG. F
AVERAGE PRESSURE = +65.1720 PSIA
MASS = +643460.25
AVG DEW POINT TEMP = +73.7259 DEG. F
AVG VAPOR PRESSURE = +0.4117 PSIA

CALVERT CLIFFS 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 196
TIME : 11:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66281	2	+66844

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.070	2	+88.293	3	+88.266
4	+88.690	5	+85.757	6	+92.814
7	+81.945	8	+80.828	9	+85.302
10	+79.434	11	+80.227	12	+80.816
13	+82.972	14	+85.948	15	+78.416
16	+78.704	17	+78.360	18	+73.520

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.731	2	+75.872
3	+70.871	4	+71.941
5	+71.333	6	+72.172

AVERAGE TEMPERATURE = +83.6539 DEG. F
AVERAGE PRESSURE = +65.1708 PSIA
MASS = +643411.69
AVG DEW POINT TEMP = +73.8469 DEG. F
AVG VAPOR PRESSURE = +0.4134 PSIA

CALVERT CLIFFS 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 11:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66280	2	+66844

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+83.021	2	+88.258	3	+8[illegible].250
4	+88.710	5	+85.737	6	+[illegible].344
7	+81.948	8	+80.851	9	+85.321
10	+79.522	11	+80.278	12	+80.824
13	+87.981	14	+85.903	15	+78.431
16	+78.724	17	+78.360	18	+78.523

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+7[illegible].6	2	+75.712
3	+70.890	4	+71.882
5	+71.110	6	+72.233

AVERAGE TEMPERATURE = +83.6560 DEG. F
AVERAGE PRESSURE = +65.1708 PSIA
MASS = +643410.50
AVG DEW POINT TEMP = +73.8376 DEG. F
AVG VAPOR PRESSURE = +0.4132 PSIA

CALVERT CLIFFS 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 11:36

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66280	2	+66843

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.991	2	+88.229	3	+88.250
4	+88.734	5	+85.751	6	+82.853
7	+81.971	8	+80.891	9	+85.299
10	+79.565	11	+80.313	12	+80.848
13	+83.006	14	+85.864	15	+78.462
16	+78.799	17	+78.385	18	+78.540

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.250	2	+75.529
3	+70.886	4	+71.902
5	+71.386	6	+72.181

AVERAGE TEMPERATURE = +83.6684 DEG. F
AVERAGE PRESSURE = +65.1698 PSIA
MASS = +643402.31
AVG DEW POINT TEMP = +73.7197 DEG. F
AVG VAPOR PRESSURE = +0.4116 PSIA

CALVERT CLIFFS 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 11:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66843

Rtds in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.994	2	+88.235	3	+89.227
4	+88.606	5	+85.720	6	+82.910
7	+81.979	8	+80.894	9	+85.286
10	+79.646	11	+80.374	12	+80.886
13	+83.013	14	+85.900	15	+78.503
16	+78.825	17	+78.465	18	+78.556

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.200	2	+76.287
3	+70.925	4	+71.955
5	+71.443	6	+72.322

AVERAGE TEMPERATURE = +83.6742 DEG. F
AVERAGE PRESSURE = +65.1698 PSIA
MASS = +643368.38
AVG DEW POINT TEMP = +73.9166 DEG. F
AVG VAPOR PRESSURE = +0.4143 PSIA

CALVERT CLIFFS 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 12:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66843

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.962	2	+88.198	3	+88.247
4	+88.661	5	+85.705	6	+82.902
7	+82.006	8	+80.963	9	+85.273
10	+79.628	11	+80.444	12	+80.909
13	+83.049	14	+85.876	15	+79.564
16	+78.904	17	+78.524	18	+78.579

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.817	2	+76.536
3	+70.967	4	+72.001
5	+71.603	6	+72.364

AVERAGE TEMPERATURE = +83.6932 DEG. F
AVERAGE PRESSURE = +65.1698 PSIA
MASS = +643345.44
AVG DEW POINT TEMP = +73.9192 DEG. F
AVG VAPOR PRESSURE = +0.4144 PSIA

CALVERT CLIFFS 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 12:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66843

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.963	2	+88.205	3	+88.191
4	+88.665	5	+85.688	6	+82.945
7	+82.023	8	+81.001	9	+85.282
10	+79.608	11	+80.455	12	+80.938
13	+83.049	14	+85.920	15	+78.570
16	+78.894	17	+78.537	18	+78.585

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.015	2	+76.072
3	+71.017	4	+72.077
5	+71.537	6	+72.416

AVERAGE TEMPERATURE = +83.6976 DEG. F
AVERAGE PRESSURE = +65.1698 PSIA
MASS = +643345.94
AVG DEW POINT TEMP = +73.8780 DEG. F
AVG VAPOR PRESSURE = +0.4138 PSIA

CALVERT CLIFFS 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 1E6
TIME : 12:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66843

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.944	2	+88.151	3	+88.209
4	+88.647	5	+85.702	6	+82.948
7	+82.038	8	+30.963	9	+85.264
10	+79.638	11	+80.477	12	+80.975
13	+83.082	14	+85.903	15	+78.611
16	+78.944	17	+78.573	18	+78.596

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.117	2	+76.214
3	+71.095	4	+72.087
5	+71.492	6	+72.479

AVERAGE TEMPERATURE = +83.7024 DEG. F
AVERAGE PRESSURE = +65.1698 PSIA
MASS = +643329.63
AVG DEW POINT TEMP = +73.9553 DEG. F
AVG VAPOR PRESSURE = +0.4149 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 12:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66944

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.918	2	+88.160	3	+88.180
4	+88.633	5	+85.696	6	+82.965
7	+82.069	8	+81.069	9	+85.279
10	+79.731	11	+80.520	12	+80.981
13	+83.088	14	+85.910	15	+79.649
16	+79.010	17	+78.582	18	+78.659

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.317	2	+76.113
3	+71.145	4	+72.145
5	+71.493	6	+72.564

AVERAGE TEMPERATURE = +83.7220 DEG. F
AVERAGE PRESSURE = +65.1708 PSIA
MASS = +643309.17
AVG DEW POINT TEMP = +74.0048 DEG. F
AVG VAPOR PRESSURE = +0.4156 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 13:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66845

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.898	2	+88.148	3	+88.172
4	+88.559	5	+85.710	6	+83.010
7	+82.101	8	+81.079	9	+85.260
10	+79.824	11	+80.569	12	+81.033
13	+83.128	14	+85.896	15	+78.712
16	+79.055	17	+78.651	18	+78.710

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.305	2	+75.776
3	+71.203	4	+72.323
5	+71.868	6	+72.584

AVERAGE TEMPERATURE = +83.7374 DEG. F
AVERAGE PRESSURE = +65.1718 PSIA
MASS = +643302.00
AVG DEW POINT TEMP = +73.9957 DEG. F
AVG VAPOR PRESSURE = +0.4154 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 12/
TIME : 13:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66845

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.915	2	+88.137	3	+88.184
4	+88.610	5	+85.699	6	+83.033
7	+82.096	8	+81.137	9	+85.281
10	+79.843	11	+80.627	12	+81.057
13	+83.143	14	+85.981	15	+78.735
16	+79.101	17	+78.662	18	+78.768

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.310	2	+76.200
3	+71.305	4	+72.381
5	+72.074	6	+72.634

AVERAGE TEMPERATURE = +83.7600 DEG. F
AVERAGE PRESSURE = +65.1718 PSIA
MASS = +643254.06
AVG DEW POINT TEMP = +74.1485 DEG. F
AVG VAPOR PRESSURE = +0.4176 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 13:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66846

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.901	2	+88.116	3	+88.145
4	+88.598	5	+85.696	6	+83.015
7	+82.145	8	+81.149	9	+85.270
10	+79.823	11	+80.677	12	+81.073
13	+83.152	14	+85.931	15	+78.770
16	+79.148	17	+78.714	18	+78.794

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.064	2	+73.625
3	+71.337	4	+72.372
5	+71.957	6	+72.761

AVERAGE TEMPERATURE = +83.7666 DEG. F
AVERAGE PRESSURE = +65.1728 PSIA
MASS = +643281.19
AVG DEW POINT TEMP = +73.9659 DEG. F
AVG VAPOR PRESSURE = +0.4130 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 13:49

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66847

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.886	2	+88.113	3	+88.137
4	+88.624	5	+85.691	6	+87.046
7	+82.171	8	+81.199	9	+85.257
10	+79.905	11	+80.732	12	+81.138
13	+83.184	14	+85.885	15	+78.822
16	+79.187	17	+78.739	18	+78.814

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.246	2	+75.022
3	+71.458	4	+72.514
5	+72.277	6	+72.377

AVERAGE TEMPERATURE = +83.7859 DEG. F
AVERAGE PRESSURE = +45.1737 PSIA
MASS = +643563.38
AVG DEW POINT TEMP = +73.9958 DEG. F
AVG VAPOR PRESSURE = +0.4105 PSIA

Calvert Cliffs-1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 14:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66849

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.849	2	+88.085	3	+88.147
4	+82.577	5	+85.690	6	+83.104
7	+82.197	8	+81.210	9	+85.255
10	+79.998	11	+80.778	12	+81.167
13	+83.190	14	+85.907	15	+78.863
16	+79.197	17	+78.772	18	+78.854

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.83.	2	+75.819
3	+71.519	4	+72.590
5	+72.088	6	+72.940

AVERAGE TEMPERATURE = +83.7964 DEG. F
AVERAGE PRESSURE = +65.1757 PSIA
MASS = +643262.63
AVG DEW POINT TEMP = +74.0557 DEG. F
AVG VAPOR PRESSURE = +0.4163 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 14:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66850

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.857	2	+88.087	3	+88.107
4	+88.612	5	+85.708	6	+83.096
7	+82.237	8	+81.277	9	+85.261
10	+80.055	11	+80.853	12	+81.219
13	+83.239	14	+85.900	15	+78.906
16	+79.240	17	+78.793	18	+78.892

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.705	2	+76.222
3	+71.595	4	+72.660
5	+72.081	6	+72.938

AVERAGE TEMPERATURE = +83.8219 DEG. F
AVERAGE PRESSURE = +65.1767 PSIA
MASS = +643229.81
AVG DEW POINT TEMP = +74.1447 DEG. F
AVG VAPOR PRESSURE = +0.4175 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 14:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66851

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.805	2	+88.067	3	+88.102
4	+88.551	5	+85.690	6	+83.134
7	+82.266	8	+81.309	9	+8. 767
10	+80.061	11	+80.874	12	+81.250
13	+83.262	14	+85.936	15	+78.936
16	+79.252	17	+78.839	18	+78.924

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.015	2	+75.506
3	+71.694	4	+72.743
5	+72.126	6	+73.107

AVERAGE TEMPERATURE = +83.8270 DEG. F
AVERAGE PRESSURE = +65.1777 PSIA
MASS = +643239.13
AVG DEW POINT TEMP = +74.1035 DEG. F
AVG VAPOR PRESSURE = +0.4169 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 14:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66852

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.788	2	+88.043	3	+88.089
4	+88.606	5	+85.694	6	+83.174
7	+82.292	8	+81.359	9	+85.260
10	+80.117	11	+80.896	12	+81.277
13	+83.279	14	+85.926	15	+78.965
16	+79.286	17	+78.874	18	+78.949

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.777	2	+75.180
3	+71.777	4	+72.822
5	+72.348	6	+73.230

AVERAGE TEMPERATURE = +83.8423 DEG. F
AVERAGE PRESSURE = +65.1786 PSIA
MASS = +643240.38
AVG DEW POINT TEMP = +74.0331 DEG. F
AVG VAPOR PRESSURE = +0.4160 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 184
TIME : 15:09

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66276	2	+66853

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.805	2	+88.044	3	+88.087
4	+88.577	5	+85.705	6	+83.174
7	+82.305	8	+81.382	9	+85.311
10	+80.218	11	+80.932	12	+81.298
13	+83.306	14	+85.939	15	+78.982
16	+79.301	17	+78.907	18	+78.973

Dew Cell temperaturec in degrees F

channel	cell temp	channel	cell temp
1	+76.464	2	+76.005
3	+71.881	4	+72.908
5	+72.415	6	+73.289

AVERAGE TEMPERATURE = +83.8603 DEG. F
AVERAGE PRESSURE = +65.1796 PSIA
MASS = +643205.94
AVG DEW POINT TEMP = +74.1977 DEG. F
AVG VAPOR PRESSURE = +0.4183 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 15:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66280	2	+66855

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.782	2	+88.035	3	+88.061
4	+88.557	5	+85.719	6	+83.241
7	+82.348	8	+81.424	9	+85.334
10	+86.233	11	+80.97?	12	+81.353
13	+83.328	14	+85.949	15	+79.000
16	+79.313	17	+76.942	18	+78.985

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.724	2	+75.436
3	+71.934	4	+73.010
5	+72.506	6	+73.353

AVERAGE TEMPERATURE = +83.8741 DEG. F
AVERAGE PRESSURE = +65.1816 PSIA
MASS = +643313.63
AVG DEW POINT TEMP = +74.1656 DEG. F
AVG VAPOR PRESSURE = +0.4176 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 15:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66282	2	+66856

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.774	2	+89.038	3	+88.107
4	+88.577	5	+85.716	6	+83.259
7	+82.389	8	+81.472	9	+85.289
10	+90.258	11	+81.047	12	+81.401
13	+83.363	14	+85.943	15	+79.026
16	+79.319	17	+78.993	18	+79.023

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.063	2	+75.935
3	+72.027	4	+73.077
5	+72.522	6	+73.399

AVERAGE TEMPERATURE = +83.8954 DEG. F
AVERAGE PRESSURE = +65.1825 PSIA
MASS = +643166.13
AVG DEW POINT TEMP = +74.3949 DEG. F
AVG VAPOR PRESSURE = +0.4210 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 19A
TIME : 15:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66283	2	+66857

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.773	2	+88.037	3	+88.060
4	+88.542	5	+85.728	6	+83.252
7	+82.414	8	+81.504	9	+85.287
10	+80.322	11	+81.088	12	+81.430
13	+83.374	14	+85.951	15	+79.071
16	+79.426	17	+79.035	18	+79.068

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.881	2	+75.965
3	+72.103	4	+73.199
5	+72.584	6	+73.489

AVERAGE TEMPERATURE = +83.9116 DEG. F
AVERAGE PRESSURE = +65.1835 PSIA
MASS = +643155.00
AVG DEW POINT TEMP = +74.4067 DEG. F
AVG VAPOR PRESSURE = +0.4212 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : STABLE
DATE : 186
TIME : 16:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66283	2	+66859

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.786	2	+88.023	3	+88.050
4	+88.551	5	+85.708	6	+83.276
7	+82.463	8	+81.538	9	+85.313
10	+80.323	11	+81.098	12	+81.478
13	+83.406	14	+85.926	15	+79.121
16	+79.359	17	+79.063	18	+79.092

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.757	2	+75.793
3	+72.137	4	+73.126
5	+72.920	6	+73.606

AVERAGE TEMPERATURE = +83.9226 DEG. F
AVERAGE PRESSURE = +65.1845 PSIA
MASS = +643363.25
AVG DEW POINT TEMP = +72.8392 DEG. F
AVG VAPOR PRESSURE = +0.3996 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 15:50

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+56387	2	+56861

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.770	2	+88.026	3	+88.085
4	+88.488	5	+85.726	6	+83.774
7	+82.507	8	+81.559	9	+85.387
10	+80.369	11	+81.183	12	+81.527
13	+83.447	14	+85.949	15	+79.148
16	+79.466	17	+79.109	18	+79.142

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.428	2	+0.369
3	+72.314	4	+73.330
5	+73.007	6	+73.745

AVERAGE TEMPERATURE = +83.9193 DEG. F
AVERAGE PRESSURE = +65.1674 PSIA
MASS = +643197.19
AVG DEW POINT TEMP = +74.0624 DEG. F
AVG VAPOR PRESSURE = +0.4164 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 184
TIME : 14:59

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+56208	2	+66861

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.735	2	+88.009	3	+88.076
4	+88.533	5	+83.742	6	+83.396
7	+82.519	8	+81.588	9	+85.3[illegible]
10	+80.371	11	+81.189	12	+81.550
13	+83.465	14	+85.943	15	+79.168
16	+79.507	17	+79.112	18	+79.150

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.741	2	+0.344
3	+72.354	4	+73.3[illegible]
5	+73.066	6	+73.613

AVERAGE TEMPERATURE = +83.9591 DEG. F
AVERAGE PRESSURE = +65.1874 PSIA
MASS = +643168.50
AVG DEW POINT TEMP = +74.1847 DEG. F
AVG VAPOR PRESSURE = [illegible]0.4181 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 17:14

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66289	2	+66063

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.736	2	+87.977	3	+88.079
4	+88.501	5	+85.754	6	+83.421
7	+82.562	8	+81.649	9	+85.376
10	+80.403	11	+81.243	12	+81.601
13	+83.471	14	+85.945	15	+79.213
16	+79.538	17	+79.156	18	+79.167

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.617	2	+0.366
3	+72.406	4	+73.455
5	+72.950	6	+73.790

AVERAGE TEMPERATURE = +83.9775 DEG. F
AVERAGE PRESSURE = +65.1894 PSIA
MASS = +643167.63
AVG DEW POINT TEMP = +74.1743 DEG. F
AVG VAPOR PRESSURE = +0.4179 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 17:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66291	2	+66864

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.757	2	+87.970	3	+88.034
4	+88.530	5	+85.757	6	+83.427
7	+82.620	8	+81.675	9	+85.412
10	+80.499	11	+81.288	12	+81.636
13	+83.528	14	+85.986	15	+79.245
16	+79.577	17	+79.200	18	+79.202

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.292	2	+0.372
3	+72.480	4	+73.512
5	+73.056	6	+73.756

AVERAGE TEMPERATURE = +84.0036 DEG. F
AVERAGE PRESSURE = +65.1903 PSIA
MASS = +643156.69
AVG DEW POINT TEMP = +74.1009 DEG. F
AVG VAPOR PRESSURE = +0.4169 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 17:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66294	2	+56866

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.764	2	+87.998	3	+88.041
4	+88.484	5	+85.749	6	+83.470
7	+82.640	8	+81.718	9	+85.382
10	+80.543	11	+81.301	12	+81.669
13	+83.548	14	+85.986	15	+79.275
16	+79.631	17	+79.231	18	+79.219

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.007	2	+0.367
3	+72.531	4	+73.558
5	+73.120	6	+73.841

AVERAGE TEMPERATURE = +84.0170 DEG. F
AVERAGE PRESSURE = +65.1923 PSIA
MASS = +643168.88
AVG DEW POINT TEMP = +74.0398 DEG. F
AVG VAPOR PRESSURE = +0.4160 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 18:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66295	2	+66867

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.721	2	+87.986	3	+88.038
4	+82.146	5	+85.774	6	+82.500
7	+82.266	8	+81.733	9	+85.371
10	+80.535	11	+81.337	12	+81.703
13	+82.558	14	+86.026	15	+79.301
16	+79.580	17	+79.257	18	+79.316

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.103	2	+0.372
3	+72.572	4	+73.582
5	+73.269	6	+73.951

AVERAGE TEMPERATURE = +84.0245 DEG. F
AVERAGE PRESSURE = +65.1933 PSIA
MASS = +643159.38
AVG DEW POINT TEMP = +74.1123 DEG. F
AVG VAPOR PRESSURE = +0.4171 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 18:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66295	2	+66867

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.757	2	+87.986	3	+88.021
4	+88.464	5	+85.763	6	+83.509
7	+82.681	8	+81.744	9	+85.400
10	+80.458	11	+81.321	12	+81.712
13	+83.583	14	+85.977	15	+79.321
16	+79.579	17	+79.258	18	+79.330

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.528	2	+0.366
3	+72.627	4	+73.625
5	+72.955	6	+73.950

AVERAGE TEMPERATURE = +84.0269 DEG. F
AVERAGE PRESSURE = +65.1933 PSIA
MASS = +643136.50
AVG DEW POINT TEMP = +74.2567 DEG. F
AVG VAPOR PRESSURE = +0.4191 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 194
TIME : 18:20

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66297	2	+66867

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.724	2	+87.957	3	+88.043
4	+88.481	5	+85.789	6	+83.555
7	+82.717	8	+81.779	9	+85.446
10	+80.537	11	+81.359	12	+81.750
13	+83.598	14	+86.024	15	+79.325
16	+79.608	17	+79.278	18	+79.341

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.387	2	+0.364
3	+72.679	4	+73.652
5	+73.286	6	+73.962

AVERAGE TEMPERATURE = +84.0477 DEG. F
AVERAGE PRESSURE = +65.1933 PSIA
MASS = +643111.56
AVG DEW POINT TEMP = +74.2595 DEG. F
AVG VAPOR PRESSURE = +0.4191 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 18:45

Pressure Instruments in count

channel	pressure	channel	pressure
1	+66297	2	+66868

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.709	2	+87.974	3	+88.026
4	+88.481	5	+85.797	6	+83.554
7	+82.731	8	+81.820	9	+85.435
10	+80.503	11	+81.414	12	+81.785
13	+83.628	14	+85.994	15	+79.341
16	+79.631	17	+79.272	18	+79.371

Dew all temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.718	2	+0.364
3	+72.723	4	+73.650
5	+73.356	6	+74.047

AVERAGE TEMPERATURE = +84.0554 DEG. F
AVERAGE PRESSURE = +65.1943 P.IA
MASS = 343140.19
AVG DEW POINT TEMP = 74.0570 DEG. F
'3 VAPOR PRESSURE = +0.4163 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 19:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66297	2	+66869

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.727	2	+87.966	3	+88.028
4	+88.458	5	+85.791	6	+83.590
7	+82.778	8	+81.851	9	+85.475
10	+80.519	11	+81.408	12	+81.908
13	+83.653	14	+86.010	15	+79.374
16	+79.635	17	+79.306	18	+79.391

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.322	2	+0.366
3	+72.744	4	+73.764
5	+73.309	6	+74.095

AVERAGE TEMPERATURE = +84.0703 DEG. F
AVERAGE PRESSURE = +65.1952 PSIA
MASS = +643100.25
AVG DEW POINT TEMP = +74.2878 DEG. F
AVG VAPOR PRESSURE = +0.4195 PSIA

Calvert Cliffs I
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 1[illegible]:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66297	2	+66870

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.722	2	+97.965	3	+88.002
4	+88.461	5	+85.774	6	+83.625
7	+82.795	8	+81.854	9	+85.487
10	+80.581	11	+81.443	12	+81.825
13	+83.667	14	+86.013	15	+79.393
16	+79.690	17	+79.332	18	+79.408

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.156	2	+0.366
3	+72.782	4	+73.843
5	+73.211	6	+74.133

AVERAGE TEMPERATURE = +84.0805 DEG. F
AVERAGE PRESSURE = +65.1962 PSIA
MASS = +643103.31
AVG DEW POINT TEMP = +74.2484 DEG. F
AVG VAPOR PRESSURE = +0.4190 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 19:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66297	2	+66871

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.735	2	+88.005	3	+88.047
4	+88.458	5	+85.801	6	+83.618
7	+82.801	8	+81.868	9	+85.432
10	+80.584	11	+81.459	12	+81.849
13	+83.692	14	+86.047	15	+79.412
16	+79.715	17	+79.354	18	+79.408

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.164	2	+0.366
3	+72.801	4	+73.779
5	+73.306	6	+74.128

AVERAGE TEMPERATURE = +84.0954 DEG. F
AVERAGE PRESSURE = +65.1972 PSIA
MASS = +643094.19
AVG DEW POINT TEMP = +74.2573 DEG. F
AVG VAPOR PRESSURE = +0.4191 PSIA

Calvert Cliffs 2
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 19:45

Pressure instruments in counts

channel	pressure	channel	pressure
1	+66298	2	+66872

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.741	2	+87.954	3	+88.041
4	+88.502	5	+85.806	6	+87.630
7	+82.835	8	+81.892	9	+85.446
10	+80.529	11	+81.486	12	+81.868
13	+83.711	14	+86.000	15	+79.422
16	+79.750	17	+79.362	18	+79.417

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.268	2	+0.364
3	+72.868	4	+71.881
5	+73.339	6	+74.205

AVERAGE TEMPERATURE = +84.1011 DEG. F
AVERAGE PRESSURE = +65.1982 PSIA
MASS = +643085.63
AVG DEW POINT TEMP = +74.3396 DEG. F
AVG VAPOR PRESSURE = +0.4203 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : JBA
TIME : 20:00

Pressure instruments in counts

channel	pressure	channel	pressure
1	+66298	2	+66972

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.707	2	+87.957	3	+88.028
4	+83.497	5	+85.803	6	+83.665
7	+82.872	8	+81.921	9	+85.496
10	+80.537	11	+81.483	12	+81.886
13	+83.721	14	+86.022	15	+79.449
16	+79.698	17	+79.377	18	+79.429

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.356	2	+0.366
3	+72.882	4	+73.864
5	+73.475	6	+74.212

AVERAGE TEMPERATURE = +84.1082 DEG. F
AVERAGE PRESSURE = +65.1982 PSIA
MASS = +643070.81
AVG DEW POINT TEMP = +74.3853 DEG. F
AVG VAPOR PRESSURE = +0.4209 PSIA

Calvert Cliffs :
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 20:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66298	2	+66673

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.727	2	+87.970	3	+88.032
4	+88.499	5	+85.791	6	+83.674
7	+82.888	8	+81.913	9	+85.473
10	+80.510	11	+81.503	12	+81.906
13	+83.738	14	+86.004	15	+79.454
16	+79.785	17	+79.361	18	+79.434

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.396	2	+0.366
3	+72.917	4	+73.876
5	+73.588	6	+74.224

AVERAGE TEMPERATURE = +84.1138 DEG. F
AVERAGE PRESSURE = +65.1991 PSIA
MASS = +643068.50
AVG DEW POINT TEMP = +74.4239 DEG. F
AVG VAPOR PRESSURE = +0.4214 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 20:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66874

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.715	2	+87.936	3	+88.049
4	+88.501	5	+85.829	6	+83.706
7	+82.893	8	+81.962	9	+85.562
10	+80.567	11	+81.530	12	+81.953
13	+83.752	14	+86.062	15	+79.469
16	+79.747	17	+79.380	18	+79.458

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.347	2	+0.366
3	+72.963	4	+73.936
5	+73.609	6	+74.259

AVERAGE TEMPERATURE = +84.1338 DEG. F
AVERAGE PRESSURE = +65.2001 PSIA
MASS = +643053.94
AVG DEW POINT TEMP = +74.3287 DEG. F
AVG VAPOR PRESSURE = +0.4215 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 20:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66875

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.719	2	+87.966	3	+88.024
4	+88.439	5	+85.817	6	+83.639
7	+82.914	8	+81.958	9	+85.524
10	+80.603	11	+81.561	12	+81.967
13	+83.769	14	+86.055	15	+79.484
16	+79.838	17	+79.418	18	+79.475

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.281	2	+0.316
3	+72.956	4	+73.956
5	+73.666	6	+74.266

AVERAGE TEMPERATURE = +84.1389 DEG. F
AVERAGE PRESSURE = +65.2011 PSIA
MASS = +643058.94
AVG DEW POINT TEMP = +74.4185 DEG. F
AVG VAPOR PRESSURE = +0.4214 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 21:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66875

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.727	2	+87.982	3	+88.050
4	+88.447	5	+35.855	6	+83.754
7	+82.942	8	+82.600	9	+85.491
10	+80.456	11	+81.541	12	+81.938
13	+83.784	14	+86.099	15	+79.407
16	+79.744	17	+79.440	18	+79.403

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.170	2	+0.250
3	+72.978	4	+73.985
5	+73.509	6	+74.773

AVERAGE TEMPERATURE = +84.1473 DEG. F
AVERAGE PRESSURE = +65.2011 PSIA
MASS = +643054.69
AVG DEW POINT TEMP = +74.7782 DEG. F
AVG VAPOR PRESSURE = +0.4208 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 21:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66875

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.722	2	+87.974	3	+88.018
4	+88.516	5	+85.850	6	+83.754
7	+82.939	8	+81.987	9	+85.528
10	+80.439	11	+81.517	12	+81.955
13	+83.799	14	+86.068	15	+79.505
16	+79.678	17	+79.385	18	+79.490

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.816	2	+0.366
3	+73.024	4	+73.965
5	+73.638	6	+74.333

AVERAGE TEMPERATURE = +84.1379 DEG. F
AVERAGE PRESSURE = +65.2011 PSIA
MASS = +e43078.75
AVG DEW POINT TEMP = +70.2833 DEG. F
AVG VAPOR PRESSURE = +0.4195 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 21:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66875

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.721	2	+88.000	3	+88.015
4	+89.191	5	+85.955	6	+83.772
7	+82.977	8	+81.967	9	+85.531
10	+80.403	11	+81.492	12	+81.985
13	+83.807	14	+86.088	15	+79.505
16	+79.718	17	+79.412	18	+79.501

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.399	2	+0.250
3	+73.030	4	+73.973
5	+73.660	6	+74.322

AVERAGE TEMPERATURE = +84.1473 DEG. F
AVERAGE PRESSURE = +65.2011 PSIA
MASS = +643092.00
AVG DEW POINT TEMP = +74.1447 DEG. F
AVG VAPOR PRESSURE = +0.4175 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 21:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66875

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.695	2	+87.960	3	.018
4	+88.472	5	+85.815	6	+83.793
7	+82.965	8	+81.961	9	+85.501
10	+70.397	11	+81.466	12	+81.962
13	+83.919	14	+86.076	15	+79.486
16	+79.708	17	+79.397	18	+79.493

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.008	2	+0.382
3	+73.022	4	+73.951
5	+73.484	6	+74.362

AVERAGE TEMPERATURE = +84.1261 DEG. F
AVERAGE PRESSURE = +65.2011 PS.A
MASS = +a43085.31
AVG DEW POINT TEMP = +74.3284 DEG. F
AVG VAPOR PRESSURE = +0.4202 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 10/
TIME : 02:20

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66875

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.712	2	+87.965	3	+88.009
4	+88.493	5	+85.818	6	+83.812
7	+82.975	8	+81.947	9	+85.473
10	+80.392	11	+81.459	12	+81.941
13	+83.819	14	+86.084	15	+79.457
16	+79.760	17	+79.373	18	+79.480

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.730	2	+0.364
3	+73.017	4	+73.980
5	+73.446	6	+74.282

AVERAGE TEMPERATURE = +84.1242 DEG. F
AVERAGE PRESSURE = +65.2011 PSIA
MASS = +643102.19
AVG DEW POINT TEMP = +74.2336 DEG. F
AVG VAPOR PRESSURE = +0.4188 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 10/
TIME : 22:17

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66700	2	+66875

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.713	2	+87.963	3	+87.900
4	+88.539	5	+85.820	6	+83.787
7	+82.949	8	+81.933	9	+88.687
10	+80.360	11	+91.410	12	+81.919
13	+83.808	14	+86.102	15	+79.447
16	+79.754	17	+79.367	18	+79.447

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.193	2	+0.367
3	+77.011	4	+77.951
5	+73.719	6	+74.347

AVERAGE TEMPERATURE = +81.1221 DEG. F
AVERAGE PRESSURE = +65.2011 PSIA
MASS = +543078.94
AVG DEW POINT TEMP = +74.4178 DEG. F
AVG VAPOR PRESSURE = +0.4214 PSIA

Calvert Cliffs
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 154
TIME : 22:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66873

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.713	2	+87.974	3	+88.003
4	+89.475	5	+85.859	6	+83.781
7	+82.952	8	+81.915	9	+85.545
10	+80.241	11	+81.393	12	+81.936
13	+83.822	14	+86.106	15	+79.431
16	+79.766	17	+79.341	18	+79.429

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.788	2	+0.366
3	+73.011	4	+73.931
5	+73.796	6	+74.264

AVERAGE TEMPERATURE = +84.1132 DEG. F
AVERAGE PRESSURE = +65.1991 PSIA
MASS = +643090.13
AVG DEW POINT TEMP = +74.2745 DEG. F
AVG VAPOR PRESSURE = +0.4193 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 106
TIME : 20:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	-66872

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.715	2	+87.970	3	+87.979
4	+88.497	5	+85.855	6	+83.801
7	+82.959	8	+81.890	9	+85.549
10	+80.178	11	+81.346	12	+81.909
13	+83.828	14	+86.082	15	+79.437
16	+79.780	17	+79.309	18	+79.435

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.639	2	+0.366
3	+72.973	4	+73.873
5	+73.620	6	+74.206

AVERAGE TEMPERATURE = +84.1046 DEG. F
AVERAGE PRESSURE = +65.1982 PSIA
MASS = +643103.56
AVG DEW POINT TEMP = +74.1814 DEG. F
AVG VAPOR PRESSURE = +0.4180 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 23:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66299	2	+66871

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.702	2	+87.973	3	+88.315
4	+88.481	5	+85.881	6	+83.907
7	+82.959	8	+81.884	9	+85.611
10	+80.166	11	+81.295	12	+81.884
13	+83.816	14	+86.157	15	+79.397
16	+79.740	17	+79.281	18	+79.406

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+73.747	2	+0.250
3	+72.946	4	+73.786
5	+73.770	6	+74.214

AVERAGE TEMPERATURE = +84.1031 DEG. F
AVERAGE PRESSURE = +65.1972 PSIA
MASS = +643091.39
AVG DEW POINT TEMP = +74.2121 DEG. F
AVG VAPOR PRESSURE = +0.4165 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 17:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66298	2	+66870

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.731	2	+87.982	3	+88.009
4	+88.517	5	+85.900	6	+87.821
7	+82.966	8	+81.869	9	+85.557
10	+80.142	11	+81.318	12	+81.884
13	+83.799	14	+86.132	15	+79.390
16	+79.748	17	+79.264	18	+79.422

Dew Cell Temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.840	2	+0.363
3	+72.924	4	+73.817
5	+73.516	6	+74.107

AVERAGE TEMPERATURE = +84.1047 DEG. F
AVERAGE PRESSURE = +65.1962 PSIA
MASS = +5430B0.28
AVG DEW POINT TEMP = +74.2092 DEG. F
AVG VAPOR PRESSURE = +0.4164 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 23:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66298	2	+66869

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.728	2	+87.991	3	+88.014
4	+88.717	5	+85.876	6	+83.793
7	+82.943	8	+81.871	9	+85.574
10	+80.157	11	+81.337	12	+81.864
13	+83.840	14	+86.091	15	+79.361
16	+79.734	17	+79.251	18	+79.412

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.485	2	+0.364
3	+72.869	4	+73.811
5	+75.661	6	+74.128

AVERAGE TEMPERATURE = +84.0990 DEG. F
AVERAGE PRESSURE = +65.1952 PSIA
MASS = +643095.13
AVG DEW POINT TEMP = +74.0806 DEG. F
AVG VAPOR PRESSURE = +0.4166 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 186
TIME : 23:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66298	2	+66869

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.747	2	+88.008	3	+88.055
4	+88.401	5	+85.879	6	+83.954
7	+82.954	8	+81.837	9	+83.633
10	+80.139	11	+81.321	12	+81.878
13	+83.839	14	+86.192	15	+79.347
16	+79.718	17	+79.251	18	+79.403

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.750	2	+0.366
3	+72.840	4	+73.768
5	+73.459	6	+74.102

AVERAGE TEMPERATURE = +84.1082 DEG. F
AVERAGE PRESSURE = +65.1952 PSIA
MASS = +643075.25
AVG DEW POINT TEMP = +74.1457 DEG. F
AVG VAPOR PRESSURE = +0.4175 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 00:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66293	2	+66868

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.760	2	+89.006	3	+88.063
4	+88.465	5	+85.882	6	+83.840
7	+82.972	8	+81.846	9	+85.614
10	+80.020	11	+81.304	12	+81.846
13	+83.844	14	+86.154	15	+79.341
16	+79.724	17	+79.245	18	+79.405

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.112	2	+0.367
3	+72.792	4	+73.753
5	+73.698	6	+74.011

AVERAGE TEMPERATURE = +84.0995 DEG. F
AVERAGE PRESSURE = +65.1943 PSIA
MASS = +643060.38
AVG DEW POINT TEMP = +74.2569 DEG. F
AVG VAPOR PRESSURE = +0.4191 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 09:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66298	2	+66868

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.768	2	+88.014	3	+88.017
4	+88.504	5	+85.943	6	+83.837
7	+82.969	8	+81.861	9	+85.630
10	+80.163	11	+81.314	12	+81.866
13	+83.857	14	+86.210	15	+79.745
16	+79.719	17	+79.251	18	+79.393

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.483	2	+0.251
3	+72.787	4	+73.712
5	+73.359	6	+73.997

AVERAGE TEMPERATURE = +84.1171 DEG. F
AVERAGE PRESSURE = +65.1943 PSIA
MASS = +643077.06
AVG DEW POINT TEMP = +73.9867 DEG. F
AVG VAPOR PRESSURE = +0.4153 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 00:30

Pressure Instruments in psiA

channel	pressure	channel	pressur
1	+66297	2	+66867

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.759	2	+89.006	3	+88.037
4	+88.530	5	+85.913	6	+83.848
7	+82.942	8	+81.871	9	+85.659
10	+80.119	11	+81.309	12	+81.863
13	+83.848	14	+86.193	15	+79.307
16	+79.678	17	+79.240	18	+79.391

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.781	2	+0.251
3	+72.699	4	+73.678
5	+73.472	6	+73.944

AVERAGE TEMPERATURE = +84.1057 DEG. F
AVERAGE PRESSURE = +65.1933 PSIA
MASS = +643068.69
AVG DEW POINT TEMP = +74.0743 DEG. F
AVG VAPOR PRESSURE = +0.4165 PSIA

Calvert Cliffs 1

INTEGRATED LEAK RATE TEST

DATA POINT SUMMARY SHEET

TEST MODE : TEST

DATE : 187

TIME : 00:45

Pressure Instruments in psia

channel	pressure	channel	pressure
1	+66297	2	+66866

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.754	2	+88.012	3	+88.021
4	+88.499	5	+85.890	6	+87.811
7	+82.936	8	+81.811	9	+85.677
10	+90.033	11	+81.286	12	+81.958
13	+83.856	14	+86.169	15	+79.316
16	+79.663	17	+79.209	18	+79.390

Dew Cell Temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.883	2	+0.291
3	+72.665	4	+73.664
5	+72.930	6	+73.942

AVERAGE TEMPERATURE = +84.0891 DEG. F

AVERAGE PRESSURE = +65.1923 PSIA

MASS = +643082.28

AVG DEW POINT TEMP = +74.0473 DEG. F

AVG VAPOR PRESSURE = +0.4162 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 01:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66294	2	+66866

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.745	2	+87.980	3	+88.092
4	+88.539	5	+F5.927	6	+87.840
7	+82.916	8	+81.805	9	+85.603
10	+80.081	11	+81.289	12	+81.854
13	+83.859	14	+86.234	15	+79.319
16	+79.681	17	+79.220	18	+79.383

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.888	2	+0.250
3	+72.645	4	+73.680
5	+72.967	6	+73.902

AVERAGE TEMPERATURE = +84.0998 DEG. F
AVERAGE PRESSURE = +65.1923 PSIA
MASS = +643071.81
AVG DEW POINT TEMP = +74.0220 DEG. F
AVG VAPOR PRESSURE = +0.4159 PSIA

Calvert Cliffs
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE :
DATE :
TIME :

Pressure Instruments in Psia

channel	pressure	channel	pressure
1	+66.704	2	+65.966

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.760	2	+89.637	3	+88.028
4	+88.540	5	+85.763	6	+83.850
7	+82.966	8	+81.854	9	+85.679
10	+80.137	11	+81.373	12	+81.058
13	+83.869	14	+86.219	15	+79.336
16	+79.690	17	+79.216	18	+79.783

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.639	2	+0.256
3	+72.624	4	+73.603
5	+73.237	6	+73.831

AVERAGE TEMPERATURE	=	+84.1212	DEG. F
AVERAGE PRESSURE	=	+65.1933	PSIA
MASS	=	+643056.69	
AVG DEW POINT TEMP	=	+73.9586	DEG. F
AVG VAPOR PRESSURE	=	+0.4149	PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 01:79

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66295	2	+66867

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.802	2	+88.060	3	+88.061
4	+88.525	5	+85.969	6	+83.850
7	+82.968	8	+81.860	9	+85.672
10	+80.128	11	+81.367	12	+81.869
13	+83.889	14	+86.213	15	+79.350
16	+79.710	17	+79.214	18	+79.386

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.521	2	+0.256
3	+72.572	4	+73.603
5	+73.451	6	+73.854

AVERAGE TEMPERATURE = +84.1291 DEG. F
AVERAGE PRESSURE = +65.1933 PSIA
MASS = +643062.25
AVE DEW POINT TEMP = +73.9205 DEG. F
AVG VAPOR PRESSURE = +0.4144 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 01:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66296	2	+66869

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.779	2	+88.044		+88.090
4	+88.549	5	+86.004		+87.969
7	+82.968	8	+81.887		+85.685
10	+80.291	11	+81.417	12	+81.995
13	+83.909	14	+86.710	15	+79.373
16	+79.698	17	+79.248	18	+79.408

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.703	2	+0.256
3	+72.613	4	+73.652
5	+73.686	6	+73.866

AVERAGE TEMPERATURE = +84.1521 DEG. F
AVERAGE PRESSURE = +65.1952 PSIA
MASS = +643039.94
AVG DEW POINT TEMP = +74.0260 DEG. F
AVG VAPOR PRESSURE = +0.4159 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : :00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66296	2	+66870

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.796	2	+88.032	3	+88.067
4	+88.560	5	+85.972	6	+83.882
7	+82.968	8	+81.921	9	+85.697
10	+80.302	11	+81.442	12	+81.910
13	+83.940	14	+86.242	15	+79.394
16	+79.689	17	+79.269	18	+79.437

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.650	2	+0.256
3	+72.604	4	+73.672
5	+73.703	6	3.870

AVERAGE TEMPERATURE = +84.1600 DEG. F
AVERAGE PRESSURE = +65.1962 PSIA
MASS = +643042.63
AVG DEW POINT TEMP = +74.0090 DEG. F
AVG VAPOR PRESSURE = +0.4156 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 02:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66296	2	+66871

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.802	2	+88.057	3	+88.072
4	+88.592	5	+85.971	6	+87.918
7	+82.991	8	+81.935	9	+85.694
10	+80.172	11	+81.451	12	+81.950
13	+83.934	14	+86.250	15	+79.405
16	+79.745	17	+79.307	18	+79.443

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.549	2	+0.257
3	+72.644	4	+73.725
5	+73.690	6	+73.962

AVERAGE TEMPERATURE = +84.1706 DEG. F
AVERAGE PRESSURE = +65.1972 PSIA
MASS = +643040.75
AVG DEW POINT TEMP = +7^.0017 DEG. F
AVG VAPOR PRESSURE = +0.4155 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
ATE : 187
TIME : 02:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66296	2	+66871

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.795	2	+88.021	3	+89.069
4	+88.566	5	+85.992	6	+83.926
7	+83.027	8	+81.932	9	+85.705
10	+80.278	11	+81.474	12	+81.921
13	+83.941	14	+86.247	15	+79.429
16	+79.734	17	+79.313	18	+79.443

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.296	2	+0.251
3	+72.688	4	+73.703
5	+73.634	6	+73.945

AVERAGE TEMPERATURE = +84.1749 DEG. F
AVERAGE PRESSURE = +65.1972 PSIA
MASS = +643047.06
AVG DEW POINT TEMP = +73.9198 DEG. F
AVG VAPOR PRESSURE = +0.4144 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 02:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66298	2	+66872

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.800	2	+88.040	3	+88.111
4	+88.555	5	+86.015	6	+87.924
7	+83.009	8	+81.933	9	+85.728
10	+80.265	11	+81.481	12	+81.945
13	+83.960	14	+85.244	15	+79.426
16	+79.739	17	+79.310	18	+79.451

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.808	2	+0.250
3	+72.729	4	+73.703
5	+73.498	6	+73.939

AVERAGE TEMPERATURE = +84.1826 DEG. F
AVERAGE PRESSURE = +65.1982 PSIA
MASS = +643022.75
AVG DEW POINT TEMP = +74.0992 DEG. F
AVG VAPOR PRESSURE = +0.4169 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 137
TIME : 03:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66873

RTDs in degrees F

channel	temp	channel	temp.	channel	temp.
1	+87.818	2	+88.082	3	+88.125
4	+88.512	5	+86.018	6	+83.929
7	+83.024	8	+8[illegible].987	9	+85.754
10	+80.242	11	+8[illegible].492	12	+81.961
13	+83.978	14	+86.315	15	+79.440
16	+79.768	17	+79.341	18	+79.467

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.749	2	+0.253
3	+72.724	4	+73.759
5	+73.696	6	+74.084

AVERAGE TEMPERATURE = +84.2074 DEG. F
AVERAGE PRESSURE = +65.1991 PSIA
MASS = +643001.00
AVG DEW POINT TEMP = +74.1145 DEG. F
AVG VAPOR PRESSURE = +0.4171 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 10
TIME : 03:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66873

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.832	2	+88.069	3	+88.128
4	+88.569	5	+86.033	6	+83.953
7	+83.038	8	+81.947	9	+85.737
10	+80.241	11	+81.442	12	+81.968
13	+83.979	14	+86.286	15	+79.454
16	+79.773	17	+79.322	18	+79.461

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.636	2	+0.251
3	+72.752	4	+73.736
5	+73.838	6	+74.343

AVERAGE TEMPERATURE = +84.2001 DEG. F
AVERAGE PRESSURE = +65.1991 PSIA
MASS = +643012.88
AVG DEW POINT TEMP = +74.0908 DEG. F
AVG VAPOR PRESSURE = +0.4168 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 07:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66973

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.838	2	+88.047	3	+88.073
4	+88.604	5	+86.042	6	+83.952
7	+83.029	8	+81.936	9	+85.713
10	+80.210	11	+81.459	12	+81.588
13	+83.999	14	+86.247	15	+79.457
16	+79.783	17	+79.336	18	+79.869

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.309	2	+0.251
3	+72.758	4	+73.718
5	+73.854	6	+73.977

AVERAGE TEMPERATURE = +84.1954 DEG. F
AVERAGE PRESSURE = +65.1991 PSIA
MASS = +643034.75
AVG DEW POINT TEMP = +73.9727 DEG. F
AVG VAPOR PRESSURE = +0.4151 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 03:45

Pressure instruments in counts

channel	pressure	channel	pressure
1	+66300	2	+66873

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.857	2	+88.037	3	+88.118
4	+88.587	5	+66.062	6	+83.976
7	+83.044	8	+81.932	9	+85.760
10	+80.172	11	+81.485	12	+81.973
13	+83.998	14	+86.320	15	+79.463
16	+79.792	17	+79.338	18	+79.473

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.202	2	+0.253
3	+72.752	4	+73.730
5	+73.567	6	+74.035

AVERAGE TEMPERATURE = +84.2070 DEG. F
AVERAGE PRESSURE = +43.1991 PSIA
MASS = +643029.13
AVG DEW POINT TEMP = +73.9149 DEG. F
AVG VAPOR PRESSURE = +0.4143 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 04:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66303	2	+66875

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.840	2	+88.057	3	+8?.128
4	+88.57?	5	+86.064	6	+8?.981
7	+8?.047	8	+81.980	9	+85.77?
10	+80.278	11	+81.466	12	+81.990
13	+84.010	14	+86.341	15	+79.467
16	+79.794	17	+79.341	18	+79.481

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.650	2	+0.250
3	+72.761	4	+?3.744
5	+73.687	6	+74.04?

AVERAGE TEMPERATURE = +84.2186 DEG. F
AVERAGE PRESSURE = +65.2011 PSIA
MASS = +643011.00
AVG DEW POINT TEMP = +74.0866 DEG. F
AVG VAPOR PRESSURE = +0.4167 PSIA

Calvert Cliffs 2
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 04:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66304	2	+66875

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.863	2	+88.127	3	+88.145
4	+88.641	5	+86.068	6	+84.001
7	+83.070	8	+81.993	9	+85.786
10	+80.320	11	+81.514	12	+82.005
13	+84.033	14	+86.343	15	+79.460
16	+79.783	17	+79.341	18	+79.487

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.576	2	+0.251
3	+72.744	4	+73.814
5	+73.465	6	+74.023

AVERAGE TEMPERATURE = +84.2404 DEG. F
AVERAGE PRESSURE = +65.2011 PSIA
MASS = +643036.25
AVG DEW POINT TEMP = +73.7167 DEG. F
AVG VAPOR PRESSURE = +0.4116 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 197
TIME : 04:30

Pressure instruments in counts

channel	pressure	channel	pressure
1	+66308	2	+66877

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.873	2	+88.087	3	+88.137
4	+88.627	5	+86.096	6	+83.985
7	+83.082	8	+82.003	9	+83.823
10	+80.232	11	+81.543	12	+81.697
13	+84.040	14	+86.341	15	+79.475
16	+75.793	17	+79.371	18	+79.483

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+73.532	2	+0.367
7	+72.760	4	+73.831
5	+73.750	6	+74.033

AVERAGE TEMPERATURE = +84.7457 DEG. F
AVERAGE PRESSURE = +65.2000 PSIA
MASS = +643002.00
AVG DEW POINT TEMP = +74.0604 DEG. F
AVG VAPOR PRESSURE = +0.4163 PSIA

Calvert Cliffs
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 197
TIME : 04:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66307	2	+66879

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.809	2	+89.145	3	+88.151
4	+83.664	5	+86.091	6	+84.011
7	+83.082	8	+82.017	9	+85.518
10	+80.372	11	+81.605	12	+82.073
13	+84.059	14	+86.334	15	+79.481
16	+79.776	17	+79.394	18	+79.499

Dew Cell temperatures in degrees F

channel	cel. temp	channel	cell temp
1	+75.237	2	+0.766
3	+72.782	4	+73.844
5	+73.629	6	+74.041

AVERAGE TEMPERATURE = +84.2643 DEG. F
AVERAGE PRESSURE = +65.2950 PSIA
MASS = +643013.94
AVG DEW POINT TEMP = +73.9549 DEG. F
AVG VAPOR PRESSURE = +0.4147 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TC37
DATE : 187
TIME : 05:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66308	2	+66890

RTDs : degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.872	2	+86.134	3	+89.146
4	+88.650	5	+86.119	6	+84.013
7	+83.114	8	+82.040	9	+83.904
10	+80.336	11	+81.610	12	+87.054
13	+84.062	14	+86.355	15	+78.699
16	+79.777	17	+79.411	18	+79.501

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.865	2	+0.364
3	+72.805	4	+73.872
5	+73.750	6	+74.119

AVERAGE TEMPERATURE = +84.2692 DEG. F
AVERAGE PRESSURE = +65.2060 PSIA
MASS = +643031.19
AVG DEW POINT TEMP = +73.8587 DEG. F
AVG VAPOR PRESSURE = +0.4135 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 05:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66309	2	+66881

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.870	2	+89.172	3	+88.180
4	+88.667	5	+86.105	6	+84.057
7	+83.107	8	+82.049	9	+85.823
10	+80.378	11	+81.423	12	+82.070
13	+84.086	14	+86.741	15	+79.498
16	+75.782	17	+79.417	18	+79.510

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.473	2	+0.364
3	+72.805	4	+73.896
5	+73.707	6	.162

AVERAGE TEMPERATURE = +84.2861 DEG. F
AVERAGE PRESSURE = +65 2069 PSIA
MASS = +642993.44
AVG DEW POINT TEMP = +74.0725 DEG. F
AVG VAPOR PRESSURE = +0.4165 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 05:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66310	2	+66982

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.901	2	+88.147	3	+88.155
4	+88.661	5	+86.108	6	+84.065
7	+83.126	8	+82.070	9	+85.838
10	+80.340	11	+81.620	12	+82.078
13	+84.101	14	+86.340	15	+79.507
16	+79.805	17	+79.423	18	+79.573

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.431	2	+0.367
3	+72.356	4	+73.930
5	+73.753	6	+74.131

AVERAGE TEMPERATURE = +84.2849 DEG. F
AVERAGE PRESSURE = +65.2079 PSIA
MASS = +643001.31
AVG DEW POINT TEMP = +74.0814 DEG. F
AVG VAPOR PRESSURE = +0.4165 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 167
TIME : 05:45

Pressure Instruments - counts

channel	pressure	channel	pressure
1	+66311	2	+66897

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.806	2	+88.154	3	+88.311
4	+88.694	5	+86.135	6	+84.068
7	+83.122	8	+82.070	9	+85.862
10	+80.406	11	+81.616	12	+82.069
13	+84.111	14	+86.445	15	+79.507
16	+79.830	17	+79.432	18	+79.578

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.816	2	+0.369
3	+72.854	4	+73.904
5	+73.640	6	+74.140

AVERAGE TEMPERATURE = +84.3030 DEG. F
AVERAGE PRESSURE = +65.2089 PSIA
MASS = +643020.38
AVG DEW POINT TEMP = +73.8547 DEG. F
AVG VAPOR PRESSURE = +0.4133 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 127
TIME : 05:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66313	2	+66885

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.933	2	+88.200	3	+88.183
4	+88.687	5	+86.166	6	+84.102
7	+83.171	8	+82.078	9	+85.058
10	+80.444	11	+81.694	12	+82.095
13	+84.127	14	+86.407	15	+79.518
16	+77.815	17	+79.457	18	+79.542

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.456	2	+0.367
3	+72.877	4	+73.959
5	+73.822	6	+74.191

AVERAGE TEMPERATURE = +84.3203 DEG. F
AVERAGE PRESSURE = +65.2109 PSIA
MASS = +442984.25
AVG DEW POINT TEMP = +74.1124 DEG. F
AVG VAPOR PRESSURE = +0.4171 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 06:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66715	2	+66887

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.941	2	+88.179	3	+88.198
4	+88.726	5	+86.183	6	+84.104
7	+83.180	8	+82.121	9	+85.920
10	+80.520	11	+81.694	12	+82.107
13	+84.135	14	+66.387	15	+79.576
16	+79.803	17	+79.467	18	+79.554

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.418	2	+0.367
3	+72.911	4	+73.771
5	+74.108	6	+74.159

AVERAGE TEMPERATURE = +84.3363 DEG. F
AVERAGE PRESSURE = +65.2128 PSIA
MASS = +642981.50
AVG DEW POINT TEMP = +74.1349 DEG. F
AVG VAPOR PRESSURE = +0.4174 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 197
TIME : 06:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66317	2	+66808

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.963	2	+88.171	3	+88.252
4	+88.710	5	+86.160	6	+84.147
7	+83.177	8	+82.130	9	+85.891
10	+80.487	11	+81.718	12	+82.136
13	+84.162	14	+86.444	15	+79.551
16	+79.846	17	+79.496	18	+79.570

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.981	2	+0.367
3	+72.935	4	+73.989
5	+73.893	6	+74.183

AVERAGE TEMPERATURE = +84.3474 DEG. F
AVERAGE PRESSURE = +65.2138 PSIA
MAPS = +642999.88
AVG DEW POINT TEMP = +73.9772 DEG. F
AVG VAPOR PRESSURE = +0.4152 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 107
TIME : 06:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66318	2	+66889

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.902	2	+88.214	3	+88.232
4	+88.707	5	+86.169	6	+84.141
7	+83.204	8	+82.151	9	+85.885
10	+80.514	11	+81.730	12	+82.153
13	+84.162	14	+86.425	15	+79.591
16	+79.835	17	+79.513	18	+79.565

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.424	2	+0.367
3	+72.973	4	+74.009
5	+73.912	6	+74.293

AVERAGE TEMPERATURE = +84.3591 DEG. F
AVERAGE PRESSURE = +65.2148 PSIA
MASS = +642970.69
AVG DEW POINT TEMP = +74.1580 DEG. F
AVG VAPOR PRESSURE = +0.4177 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 07:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66319	2	+66891

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.994	2	+88.195	3	+88.273
4	+88.736	5	+86.193	6	+84.178
7	+83.226	8	+82.180	9	+85.948
10	+80.551	11	+81.736	12	+82.179
13	+84.193	14	+86.467	15	+79.597
16	+79.334	17	+79.521	18	+79.599

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.157	2	+0.251
3	+72.976	4	+74.058
5	+73.985	6	+74.252

AVERAGE TEMPERATURE = +84.3806 DEG. F
AVERAGE PRESSURE = +65.2167 PSIA
MASS = +642976.06
AVG DEW POINT TEMP = +74.0756 DEG. F
AVG VAPOR PRESSURE = +0.4166 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 07:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66[illegible]21	2	+66891

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.979	2	+88.244	3	+88.256
4	+88.740	5	+86.233	6	+84.162
7	+83.239	8	+82.171	9	+85.888
10	+80.497	11	+81.761	12	+82.199
13	+84.205	14	+86.453	15	+79.602
16	+79.838	17	+79.527	18	+79.591

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.845	2	+0.367
3	+73.013	4	+74.079
5	+73.915	6	+74.307

AVERAGE TEMPERATURE = +84.3814 DEG. F
AVERAGE PRESSURE = +65.2167 PSIA
MASS = +642588.13
AVG DEW POINT TEMP = +73.9816 DEG. F
AVG VAPOR PRESSURE = +0.4152 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 07:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66322	2	+66893

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.000	2	+88.244	3	+88.258
4	+88.745	5	+86.216	6	+84.214
7	+83.232	8	+82.200	9	+85.943
10	+80.561	11	+81.755	12	+82.197
13	+84.211	14	+86.474	15	+79.621
16	+79.934	17	+79.533	18	+79.609

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.248	2	+0.366
3	+73.031	4	+74.081
5	+74.069	6	+74.328

AVERAGE TEMPERATURE = +84.3937 DEG. F
AVERAGE PRESSURE = +65.2187 PSIA
MASS = +642970.56
AVG DEW POINT TEMP = +74.1433 DEG. F
AVG VAPOR PRESSURE = +0.4175 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 07:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66324	2	+66894

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+87.994	2	+88.258	3	+88.262
4	+88.789	5	+86.253	6	+84.199
7	+83.276	8	+82.202	9	+85.975
10	+80.615	11	+81.806	12	+82.205
13	+84.227	14	+86.486	15	+79.634
16	+79.847	17	+79.559	18	+79.624

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.983	2	+0.367
3	+73.049	4	+74.145
5	+73.971	6	+74.307

AVERAGE TEMPERATURE = +84.4144 DEG. F
AVERAGE PRESSURE = +65.2196 PSIA
MASS = +642968.06
AVG DEW POINT TEMP = +74.0555 DEG. F
AVG VAPOR PRESSURE = +0.4163 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 08:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66325	2	+66895

in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.011	2	+88.218	3	+88.298
4	+88.717	5	+86.251	6	+84.211
7	+83.293	8	+82.238	9	+85.939
10	+80.567	11	+81.816	12	+82.229
13	+84.246	14	+86.499	15	+79.649
16	+79.876	17	+79.557	18	+79.643

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.085	2	+0.366
3	+73.074	4	+74.150
5	+74.044	6	+74.348

AVERAGE TEMPERATURE = +84.4155 DEG. F
AVERAGE PRESSURE = +65.2206 PSIA
MASS = +642968.88
AVG DEW POINT TEMP = +74.1102 DEG. F
AVG VAPOR PRESSURE = +0.4170 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 08:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66326	2	+66897

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+8C.003	2	+88.273	3	+88.308
4	+88.778	5	+86.230	6	4.239
7	+83.282	8	+82.234	9	+85.980
10	+80.618	11	+81.828	12	+82.244
13	+84.765	14	+86.531	15	+79.676
16	+79.888	17	+79.585	18	+79.664

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.207	2	+0.369
3	+73.118	4	+74.221
5	+74.064	6	+74.334

AVERAGE TEMPERATURE = +84.4343 DEG. F
AVERAGE PRESSURE = +65.2226 PSIA
MASS = +642956.63
AVG DEW POINT TEMP = +74.1776 DEG. F
AVG VAPOR PRESSURE = +0.4180 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 08:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66328	2	+66898

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.015	2	+88.307	3	+88.316
4	+88.839	5	+86.303	6	+84.240
7	+83.313	8	+82.237	9	+85.984
10	+80.603	11	+81.842	12	+82.249
13	+84.268	14	+86.521	15	+79.679
16	+79.911	17	+79.594	18	+79.682

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.213	2	+0.230
3	+73.126	4	+74.240
5	+74.082	6	+74.404

AVERAGE TEMPERATURE = +84.4534 DEG. F
AVERAGE PRESSURE = +65.2236 PSIA
MASS = +642941.75
AVG DEW POINT TEMP = +74.1927 DEG. F
AVG VAPOR PRESSURE = +0.4182 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 08:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66328	2	+66899

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.014	2	+89.272	3	+88.308
4	+88.818	5	+86.242	6	+84.256
7	+83.314	8	+82.249	9	+86.036
10	+80.636	11	+81.842	12	+82.267
13	+84.275	14	+86.541	15	+79.686
16	+79.910	17	+79.582	18	+79.681

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.338	2	+0.747
3	+73.164	4	+74.215
5	+74.255	6	+74.371

AVERAGE TEMPERATURE = +84.4512 DEG. F
AVERAGE PRESSURE = +68.2245 PSIA
MASS = +642941.81
AVG DEW POINT TEMP = +74.2583 DEG. F
AVG VAPOR PRESSURE = +0.4191 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 09:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66329	2	+66900

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.046	2	+88.311	3	+88.333
4	+88.850	5	+86.303	6	+84.303
7	+87.320	8	+82.278	9	+86.015
10	+80.664	11	+81.868	12	+82.292
13	+84.312	14	+86.518	15	+79.713
16	+79.922	17	+79.621	18	+79.695

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.157	2	+0.367
3	+73.175	4	+74.255
5	+74.115	6	+74.430

AVERAGE TEMPERATURE = +84.4756 DEG. F
AVERAGE PRESSURE = +65.2255 PSIA
MASS = +642934.19
AVG DEW POINT TEMP = +74.1974 DEG. F
AVG VAPOR PRESSURE = +0.4183 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 09:15

Pressure Instruments in counts

channel	pressure	channel	press e
1	+66331	2	+66903

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.084	2	+88.298	3	+88.308
4	+88.844	5	+86.337	6	+84.291
7	+83.361	8	+82.316	9	+86.026
10	+80.619	11	+81.906	12	+82.305
13	+84.323	14	+86.570	15	+79.718
16	+79.978	17	+79.640	18	+79.708

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.349	2	+0.369
3	+73.196	4	+74.322
5	+74.060	6	+74.441

AVERAGE TEMPERATURE = +84.4507 DEG. F
AVERAGE PRESSURE = +65.2275 PSIA
MASS = +642924.81
AVG DEW POINT TEMP = +74.2762 DEG. F
AVG VAPOR PRESSURE = +0.4194 PSI

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 09:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66333	2	+66903

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.063	2	+88.346	3	+88.354
4	+88.851	5	+86.322	6	+84.329
7	+83.381	8	+82.319	9	+86.017
10	+80.744	11	+81.930	12	+82.341
13	+84.343	14	+86.569	15	+79.728
16	+79.992	17	+79.620	18	+79.716

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.610	2	+0.367
3	+73.222	4	+74.337
5	+73.928	6	+74.441

AVERAGE TEMPERATURE = +84.5071 DEG. F
AVERAGE PRESSURE = +65.2284 PSIA
MASS = 642950.81
AVG DEW POINT TEMP = +74.0191 DEG. F
AVG VAPOR PRESSURE = +0.4158 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 09:48

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66333	2	+66904

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.075	2	+88.301	3	+88.359
4	+88.841	5	+86.335	6	+84.329
7	+83.366	8	+82.304	9	+86.060
10	+80.741	11	+81.926	12	+82.351
13	+84.355	14	+86.875	15	+79.744
16	+79.953	17	+79.666	18	+79.711

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.254	2	+0.366
3	+73.237	4	+74.349
5	+74.261	6	+74.455

AVERAGE TEMPERATURE = +84.5078 DEG. F
AVERAGE PRESSURE = +65.2294 PSIA
MASS = +642923.44
AVG DEW POINT TEMP = +74.2723 DEG. F
AVG VAPOR PRESSURE = +0.4194 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 10:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66334	2	+66905

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.070	2	+88.331	3	+88.371
4	+88.850	5	+86.352	6	+84.375
7	+83.392	8	+82.334	9	+86.039
10	+80.735	11	+81.935	12	+82.382
13	+84.372	14	+86.613	15	+79.756
16	+79.966	17	+79.640	18	+79.730

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.041	2	+0.369
3	+73.249	4	+74.317
5	+74.191	6	+74.475

AVERAGE TEMPERATURE = +84.5205 DEG. F
AVERAGE PRESSURE = +65.2304 PSIA
MASS = +642928.88
AVG DEW POINT TEMP = +74.2015 DEG. F
AVG VAPOR PRESSURE = +0.4183 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 10:17

Pressure instruments in counts

channel	pressure	channel	pressure
1	+66335	2	+66706

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.113	2	+88.349	3	+88.735
4	+86.876	5	+86.346	6	+84.753
7	+83.413	8	+83.245	9	+86.050
10	+80.802	11	+81.935	12	+83.385
13	+84.364	14	+86.621	15	+79.754
16	+79.954	17	+79.650	18	+79.737

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.247	2	+0.367
3	+73.266	4	+74.371
5	+74.210	6	+74.523

AVERAGE TEMPERATURE = +84.5342 DEG. F
AVERAGE PRESSURE = +65.231+ PSIA
MASS = +642909.81
AVG DEW POINT TEMP = +74.2925 DEG. F
AVG VAPOR PRESSURE = +0.4196 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 10:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66337	2	+66906

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.076	2	+88.356	3	+88.412
4	+88.896	5	+86.381	6	+84.358
7	+83.404	8	+82.345	9	+86.105
10	+80.743	11	+81.926	12	+82.373
13	+84.387	14	+86.595	15	+79.776
16	+79.962	17	+79.652	18	+79.733

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.955	2	+0.367
3	+73.289	4	+74.307
5	+74.189	6	+74.552

AVERAGE TEMPERATURE = +84.5382 DEG. F
AVERAGE PRESSURE = +65.2314 PSIA
MASS = +642922.75
AVG DEW POINT TEMP = +74.1907 DEG. F
AVG VAPOR PRESSURE = +0.4182 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : [illegible]
DATE : [illegible]
TIME : [illegible]

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66337	2	+66902

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.113	2	+88.374	3	+88.414
4	+88.087	5	+86.404	6	+84.385
7	[illegible]	8	+82.354	9	+86.128
10	+80.764	11	+81.915	12	+82.356
13	+84.399	14	+86.642	15	+79.742
16	+79.954	17	+79.663	18	+79.727

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.013	2	+0.362
3	+73.271	4	+74.340
5	+74.189	6	+74.607

AVERAGE TEMPERATURE = +84.5471 DEG. F
AVERAGE PRESSURE = +65.2314 PSIA
MASS = +642905.56
AVG DEW POINT TEMP = +74.2159 DEG. F
AVG VAPOR PRESSU'TE = +0.4185 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 11:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66337	2	+66906

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.139	2	+88.394	3	+88.420
4	+88.928	5	+86.428	6	+84.312
7	+83.412	8	+82.344	9	+86.135
10	+80.763	11	+81.915	12	+82.374
13	+84.402	14	+86.637	15	+79.719
16	+79.995	17	+79.646	18	+79.716

Dew Cell temperatures in degrees F

channe.	cell temp	channel	cell temp
1	+74.955	2	+0.369
3	+73.277	4	+71.333
5	+74.301	6	+74.580

AVERAGE TEMPERATURE = +84.5529 DEG. F
AVERAGE PRESSURE = +65.2314 PSIA
MASS = +642900.19
AVG DEW POINT TEMP = +74.2024 DEG. F
AVG VAPOR PRESSURE = +0.4183 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TCS*
DATE : 1-187
TIME : 11:1*

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66338	2	+66907

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+89.148	2	+89.369	3	+88.436
4	+88.899	5	+86.425	6	+84.361
7	+83.387	8	+82.327	9	+86.100
10	+80.625	11	+81.878	12	+82.356
13	+84.402	14	+86.667	15	+79.705
16	+80.050	17	+79.620	18	+79.721

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.093	2	+9.250
3	+73.248	4	+74.319
5	+74.417	6	+74.556

AVERAGE TEMPERATURE = +84.5400 DEG. F
AVERAGE PRESSURE = +65.0323 PSIG
MASS = +642 [illegible]
AVG DEW POINT TEMP = +74.[illegible]771 DEG. F
AVG VAPOR PRESSURE = +0.[illegible]180 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 11:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66338	2	+66907

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.142	2	+88.346	3	+88.438
4	+88.943	5	+86.436	6	+84.332
7	+83.400	8	+82.316	9	+86.122
10	+80.598	11	+81.852	12	+77.337
13	+84.399	14	+86.666	15	+79.696
16	+80.023	17	+79.597	18	+79.701

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.737	2	+0.257
3	+73.246	4	+74.290
5	+74.218	6	+74.513

AVERAGE TEMPERATURE = +84.5358 DEG. F
AVERAGE PRESSURE = +65.2303 PSIA
MASS = +642944.69
AVG DEW POINT TEMP = +74.0972 DEG. F
AVG VAPOR PRESSURE = +0.4169 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

EST MODE = TEST
DATE = 187
TIME = 11:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66336	2	+66967

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.143	2	+88.380	3	+88.427
4	+88.958	5	+86.427	6	+84.349
7	+83.374	8	+82.284	9	+86.152
10	+80.526	11	+81.778	12	+82.702
13	+84.384	14	+86.656	15	+79.682
16	+80.007	17	79.544	0	+79.684

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.877	2	+0.363
3	+73.207	4	+74.266
5	+74.473	6	+74.484

AVERAGE TEMPERATURE = +84.5223 DEG. F
AVERAGE PRESSURE = +65.2333 PSIA
MASS = +642453.36
AVG DEW POINT TEMP = +74.1490 DEG. F
AVG VAPOR PRESSURE = +0.4176 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 197
TIME : 12:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66335	2	+66905

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.165	2	+88.363	3	+88.465
4	+88.964	5	+86.428	6	+84.286
7	+87.358	8	+82.226	9	+96.158
10	+80.442	11	+81.759	12	+82.292
13	+84.365	14	+86.677	15	+79.652
16	+79.983	17	+79.534	18	+79.664

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.943	2	+0.364
3	+73.138	4	+74.166
5	+74.119	6	+74.456

AVERAGE TEMPERATURE = +84.5117 DEG. F
AVERAGE PRESSURE = +65.2704 PSIA
MASS = +64[illegible]93.31
AVG DEW POINT TEMP = +74.1013 DEG. F
AVG VAPOR PRESSURE = +0.4169 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 1-27
TIME : 12:19

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66323	2	+66904

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.195	2	+88.423	3	+88.462
4	+88.948	5	+86.431	6	+84.301
7	+81.358	8	+82.183	9	+86.148
10	+80.510	11	+81.692	12	+82.264
13	+84.382	14	+86.698	15	+79.620
16	+79.948	17	+79.525	18	+79.649

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.949	2	+0.366
3	+73.068	4	+74.120
5	+74.186	6	+74.397

AVERAGE TEMPERATURE = +84.5097 DEG. F
AVERAGE PRESSURE = +65.2294 PSIA
MASS = +443949.69
AVG DEW POINT TEMP = +7 .0749 DEG. F
AVG VAPOR PRESSUR = +0.4165 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 12:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66333	2	+66903

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.185	2	+88.406	3	+88.465
4	+88.946	5	+86.467	6	+84.323
7	+83.338	8	+82.199	9	+86.161
10	+80.398	11	+81.684	12	+87.251
13	+84.364	14	+86.700	15	+79.602
16	+79.954	17	+79.513	18	+79.635

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.838	2	+0.364
3	+72.985	4	+74.092
5	+74.145	6	+74.383

AVERAGE TEMPERATURE = +84.5032 DEG. F
AVERAGE PRESSURE = +55.2284 PSIA
MASS = +642758.56
AVG DEW POINT TEMP = +73.9955 DEG. F
AVG VAPOR PRESSURE = +0.4154 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 12:4?

Pressure Instruments in counts

channel	pressure	channel	pressu. e
1	+66?33	2	+66?03

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
	+88.154	2	+88.409	3	+88.479
4	+88.990	5	+8?.454	6	+84.312
7	+83.326	8	+82.188	9	+86.171
10	+80.375	11	+81.721	12	+82.241
13	+84.382	14	+86.715	15	+79.591
16	+79.931	17	+79.493	18	+79.6?1

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.977	2	+0.?63
3	+72.940	4	+74.012
5	+73.861	6	+74.235

AVERAGE TEMPERATURE = +84.5015 DEG. F
AVERAGE PRESSURE = +?5.2284 PSIA
MASS = +642962.44
AVG DEW POINT TEMP = +73.9823 DEG. F
AVG VAPOR PRESSURE = +0.4153 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 13:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66337	2	+66905

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.203	2	+88.439	3	+88.508
4	+89.012	5	+86.477	6	+84.362
7	+83.357	8	+82.226	9	+86.204
10	+80.574	11	+81.796	12	+82.244
13	+84.402	14	+86.740	15	+79.617
16	+79.905	17	+79.504	18	+79.631

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.891	2	+0.363
3	+72.912	4	+74.054
5	+74.122	6	+7^.171

AVERAGE TEMPERATURE = +84.5357 DEG. F
AVERAGE PRESSURE = +65.2304 PSIA
MASS = +642943.69
AVG DEW POINT TEMP = +73.9656 DEG. F
AVG VAPOR PRESSURE = +0.4150 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 13:15

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66336	2	+66907

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.198	2	+88.429	3	+88.514
4	+88.966	5	+86.479	6	+84.364
7	+83.364	8	+82.273	9	+86.257
10	+80.630	11	+81.861	12	+82.313
13	+84.416	14	+86.767	15	+79.628
16	+79.902	17	+79.534	18	+79.653

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.850	2	+0.366
3	+72.879	4	+74.116
5	+74.064	6	+74.130

AVERAGE TEMPERATURE = +84.5515 DEG. F
AVERAGE PRESSURE = +65.2323 PSIA
MASS = +642948.00
AVG DEW POINT TEMP = +73.9193 DEG. F
AVG VAPOR PRESSURE = +0.4147 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 187
TIME : 13:39

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66736	2	+66908

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.226	2	+88.441	3	+88.520
4	+89.036	5	+86.534	6	+84.261
7	+83.386	8	+82.287	9	+86.218
10	+80.546	11	+81.883	12	+82.315
13	+84.425	14	+86.735	15	+79.649
16	+79.931	17	+79.570	18	+79.666

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.769	2	+0.366
3	+72.891	4	+74.122
5	+74.238	6	+74.148

AVERAGE TEMPERATURE = +84.5656 DEG. F
AVERAGE PRESSURE = +65.2333 PSIA
MASS = +642941.94
AVG DEW POINT TEMP = +73.9331 DEG. F
AVG VAPOR PRESSURE = +0.4146 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 187
TIME : 13:45

Pressure instruments in counts

channel	pressure	channel	pressure
1	+66336	2	+66909

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.224	2	+88.470	3	+88.552
4	+89.025	5	+86.502	6	+84.378
7	+83.401	8	+82.295	9	+86.207
10	+80.667	11	+81.900	12	+82.339
13	+84.440	14	+86.770	15	+79.650
16	+79.950	17	+79.577	18	+79.678

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.832	2	+0.369
3	+72.924	4	+74.064
5	+74.417	6	+74.243

AVERAGE TEMPERATURE = +84.5792 DEG. F
AVERAGE PRESSURE = +65.2343 PSIA
MASS = +642928.69
AVG DEW POINT TEMP = +73.7827 DEG. F
AVG VAPOR PRESSURE = +0.4153 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 187
TIME : 14:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66336	2	+66909

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+90.250	2	+88.497	3	+88.476
4	+89.048	5	+86.521	6	+84.420
7	+83.403	8	+82.356	9	+86.261
10	+80.688	11	+81.933	12	+82.365
13	+84.466	14	+86.817	15	+79.661
16	+79.988	17	+79.618	18	+79.707

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.795	2	+0.366
3	+72.970	4	+74.142
5	+74.011	6	+74.197

AVERAGE TEMPERATURE = +84.6022 DEG. F
AVERAGE PRESSURE = +65.2343 PSIA
MASS = +642905.13
AVG DEW POINT TEMP = +73.9564 DEG. F
AVG VAPOR PRESSURE = +0.4149 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 107
TIME : 14:19

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66338	2	+66711

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.267	2	+88.499	3	+88.578
4	+89.082	5	+86.521	6	+84.434
7	+83.447	8	+82.402	9	+86.261
10	+80.734	11	+82.034	12	+82.411
13	+84.492	14	+86.792	15	+79.710
16	+80.047	17	+79.644	18	+79.722

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.687	2	+0.250
3	+73.008	4	+74.198
5	+74.272	6	+74.290

AVERAGE TEMPERATURE = +84.6349 DEG. F
AVERAGE PRESSURE = +65.2363 PSIA
MASS = +642884.19
AVG DEW POINT TEMP = +73.9691 DEG. F
AVG VAPOR PRESSURE = +0.4181 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 187
TIME : 14:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66342	2	+66913

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.266	2	+88.520	3	+88.571
4	+89.033	5	+86.546	6	+84.489
7	+83.480	8	+82.453	9	+86.277
10	+80.772	11	+82.067	12	+82.461
13	+84.504	14	+86.822	15	+79.747
16	+80.088	17	+79.676	18	+79.750

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.827	2	+0.250
3	+73.031	4	+74.259
5	+74.198	6	+74.223

AVERAGE TEMPERATURE = +84.6562 DEG. F
AVERAGE PRESSURE = +65.2382 PSIA
MASS = +642871.00
AVG DEW POINT TEMP = +74.0227 DEG. F
AVG VAPOR PRESSURE = +0.4158 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 187
TIME : 1414

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66342	2	+66913

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.278	2	+88.508	3	+88.552
4	+89.033	5	+86.589	6	+84.491
7	+83.511	8	+92.476	9	+86.291
10	+80.905	11	+82.103	12	+82.479
13	+84.532	14	+86.816	15	+79.774
16	+80.110	17	+79.716	18	+79.782

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.816	2	+0.251
3	+73.109	4	+74.325
5	+74.465	6	+74.272

AVERAGE AIR TATURE = +84.678 DEG. F
AVERAGE PRESSURE = +6[illegible].23E2 PSIA
MASS = +642[illegible]8.44
AVG DEW POINT TEMP = +74.0823 DEG. F
AVG VAPOR PRESSURE = +0.4166 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 187
TIME : 15:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66342	2	+66913

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.272	2	+88.517	3	+88.565
4	+89.064	5	+86.592	6	+84.523
7	+83.529	8	+82.490	9	+86.332
10	+80.885	11	+82.098	12	+82.508
13	+84.556	14	+86.833	15	+79.805
16	+80.090	17	+79.730	18	+79.780

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.800	2	+0.248
3	+73.208	4	+74.380
5	+74.049	6	+74.409

AVERAGE TEMPERATURE = +84.6089 DEG. F
AVERAGE PRESSUFE = +65.3382 PSIA
MASS = +642822.56
AVG DEW POINT TEMP = +74.0937 DEG. F
AVG VAPOR PRESSURE = +0.4168 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERI
DATE : 187
TIME : 15:13

Pressure instruments in counts

channel	pressure	channel	pressure
1	+66342	2	+66913

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.276	2	+88.552	3	+88.563
4	+89.080	5	+86.582	6	+84.32?
7	+83.543	8	+82.489	9	+86.30?
10	+80.830	11	+82.067	12	+82.501
13	+84.561	14	+86.817	15	+79.823
16	+79.989	17	+79.724	18	+79.792

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.668	2	+0.366
3	+7?.269	4	+74.71?
5	+74.458	6	+74.397

AVERAGE TEMPERATURE = +84.6838 DEG. F
AVERAGE PRESSURE = +65.3382 PSIA
MASS = +642820.44
AVG DEW POINT TEMP = +7?.0951 DEG. F
AVG VAPOR PRESSURE = +0.4168 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 187
TIME : 15:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+6.342	2	+66913

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.293	2	+89.520	3	+88.570
4	+87.073	5	+86.608	6	+84.529
7	+83.526	8	+82.461	9	+86.741
10	+80.790	11	+82.045	12	+82.455
13	+84.561	14	+86.853	15	+79.823
16	+79.994	17	+79.744	18	+79.788

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.748	2	+0.364
3	+73.246	4	+74.363
5	+74.189	6	+74.502

AVERAGE TEMPERATURE = +84.6837 DEG. F
AVERAGE PRESSURE = +65.2372 PSIA
MASS = +642817.25
AVG DEW POINT TEMP = +74.1070 DEG. F
AVG VAPOR PRES. (E = +0.4170 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VCAP
DATE : 187
TIME : 15:47

Pressure Inputs in counts

channel	pressure	channel	pressure
1	+66342	2	+66913

RTDs in degrees F

channel	temp	channel	temp.	channel	temp
1	+88.2[illegible]	2	+8[illegible]	3	+88.
4	+89.082	5	+[illegible]	6	+84.[illegible]55
7	+83.555	8	[illegible]	9	+86.351
[illegible]	+80.877	11	+[illegible].067	12	+82.495
[illegible]	+84.585	14	+86.854	15	+79.834
[illegible]	+80.061	17	+79.757	[illegible]8	+79.800

Dew Cell Temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.499	2	+0.248
3	+73.277	4	+74.371
5	+74.340	6	+74.488

AVERAGE TEMPERATURE = +84.7036 DEG. F
AVERAGE PRESSURE = +65.2372 PSIA
MASS = +642802.3[illegible]
AVG DEW POINT TEMP = +74.0445 DEG. F
AVG VAPOR PRESSURE = +0.4161 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERS
DATE : 187
TIME : 16:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66342	2	+66913

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.391	2	+89.513	3	+88.610
4	+89.105	5	+86.502	6	+84.599
7	+83.607	8	+82.504	9	+86.317
10	+80.973	11	+82.139	12	+92.510
13	+84.593	14	+86.848	15	+79.843
16	+80.104	17	+79.760	18	+79.809

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.527	2	+0.257
3	+73.292	4	+74.466
5	+74.556	6	+74.539

AVERAGE TEMPERATURE = +84.7214 DEG. F
AVERAGE PRESSURE = +65.2312 PSIA
MASS = +642775.38
AVG DEW POINT TEMP = +74.0874 DEG. F
AVG VAPOR PRESSURE = +0.4167 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE - VERT
DATE 197
TIME - 16:15

Pressure Instruments in county

channel	pressure	channel	pressure
1	+66342	2	+66913

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.337	2	+88.585	3	+88.562
4	+89.114	5	+85.625	6	+84.577
7	+81.584	8	+82.357	9	+86.346
10	+80.409	11	+82.147	12	+82.554
13	+84.635	14	+81.880	15	+79.867
16	+80.142	17	+7 .776	18	+79.811

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.769	2	+0.250
3	+73.317	4	+74.462
5	+74.533	6	+74.730

AVERAGE TEMPERATURE = +84.7336 DEG. F
AVERAGE PRESSURE = +65.2372 PSIA
MASS = +642748.69
AVG DEW POINT TEMP = +74.1846 DEG. F
AVG VAPOR PRESSURE = +0.4181 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 187
TIME : 16:30

Pressure instruments in counts

channel	pressure	channel	pressure
1	+66342	2	+66911

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.311	2	+88.570	3	+88.638
4	+89.160	5	+86.633	6	+84.581
7	+83.602	8	+82.536	9	+86.343
10	+80.891	11	+82.185	12	+82.356
13	+84.631	14	+66.923	15	+79.875
16	+80.102	17	+79.773	18	+79.823

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.403	2	+0.366
3	+73.292	4	+74.464
5	+74.525	6	+74.533

AVERAGE TEMPERATURE = +84.7431 DEG. F
AVERAGE PRESSURE = +65.2363 PSIA
MASS = +642745.44
AVG DEW POINT TEMP = +74.0488 DEG. F
AVG VAPOR PRESSURE = +0.4162 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 187
TIME : 16:49

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66342	2	+66911

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.311	2	+88.51	3	+88.632
4	+89.087	5	+86.663	6	+84.609
7	+83.610	8	+82.574	9	+86.348
10	+80.947	11	+82.173	12	+82.568
13	+84.643	14	+86.923	15	+79.978
16	+80.136	17	+79.806	18	+79.834

Dew Cell temperatures in degrees F

channel	cell	channel	cell temp
1	+74.826	2	+0.248
3	+73.330	4	+74.478
5	+74.430	6	+74.610

AVERAGE TEMPERATURE = +84.7505 DEG. F
AVERAGE PRESSURE = 65.2343 PSIA
MASS = +142714.50
AVG DEW POINT TEMP = +74.2089 DEG. F
AVG VAPOR PRESSURE = +0.4184 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 187
TIME : 17:00

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66342	2	+66910

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.34c	2	+88.560	3	+88.647
4	+89.138	5	+86.659	6	+84.590
7	+83.638	8	+82.568	9	+86.363
10	+80.862	11	+82.157	12	+82.577
13	+84.654	14	+86.926	15	+79.886
16	+80.084	17	+79.811	18	+79.805

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.409	2	+0.366
3	+73.339	4	+74.501
5	+74.600	6	+74.600

AVERAGE TEMPERATURE = +84.7522 DEG. F
AVERAGE PRESSURE = +65.2353 PSIA
MASS = +542720.06
AVG DEW POINT TEMP = +74.0844 DEG. F
AVG VAPOR PRESSURE = +0.4167 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : [illegible]
TIME : [illegible]

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66342	2	+66909

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.371	2	+88.612	3	+88.641
4	+69.167	5	+86.682	6	+84.613
7	+83.642	8	+82.572	9	+86.412
10	+80.926	11	+82.141	12	+82.572
13	+84.655	14	+86.935	15	+79.898
16	+80.128	17	+79.800	18	+79.830

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.517	2	-0.251
3	+73.361	4	+74.502
5	+74.809	6	+74.626

AVERAGE TEMPERATURE = +84.7716 DEG. F
AVERAGE PRESSURE = +65.2343 PSIA
MASS = +642678.31
AVG DEW POINT TEMP = +74.1302 DEG. F
AVG VAPOR PRESSURE = +0.4175 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 187
TIME : 17:30

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66341	2	+66908

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	88.382	2	+88.597	3	+88.615
4	+89.181	5	+86.666	6	+84.625
7	+83.634	8	+82.569	9	+86.425
10	+80.917	11	+82.161	12	+82.398
13	+84.672	14	+86.978	15	+79.892
16	+80.126	17	+79.808	18	+79.838

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.603	2	+0.251
3	+73.370	4	+74.516
5	+74.710	6	+74.339

AVERAGE TEMPERATURE = +[illegible]1.7736 DEG. F
AVERAGE PRESSURE = +65.2333 PSIA
MASS = +642662.44
AVG DEW POINT TEMP = +74.1776 DEG. F
AVG VAPOR PRESSURE = +0.41[illegible]0 PSIA

Calvert Cliffs 1
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 187
TIME : 17:45

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+66341	2	+66909

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+88.357	2	+88.586	3	+88.674
4	+89.175	5	+86.688	6	+84.542
7	+83.653	8	+82.588	9	+86.380
10	+80.848	11	+82.165	12	+82.600
13	+84.666	14	+86.950	15	+79.992
16	+80.155	17	+79.829	18	+79.846

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.684	2	+0.250
3	+73.355	4	+71.482
5	+74.740	6	+74.594

AVERAGE TEMPERATURE = +84.7748 DEG. F
AVERAGE PRESSURE = +65.2333 PSIA
MASS = +642659.63
AVG DEW POINT TEMP = +74.1947 DEG. F
AVG VAPOR PRESSURE = +0.4182 PSIA

APPENDIX G

ISG CALCULATION

APPENDIX G

INSTRUMENT SELECTION GUIDE CALCULATION

A. TEST PARAMETERS

La = 0.2%/day

P = 65.173 psia

T = 543.437° R

T_{dp} = 72.008° F

t = 24 hours

B. INSTRUMENT PARAMETERS

1. Total Absolute Pressure

No. of Sensors = 1

Range: 0 - 100 psia

Sensor sensitivity error (E): 0.001 psia

Measurement system error (e):

Resolution: 0.001 psia

Repeatability: 0.001 psia

$$e = +/- ((0.001)^2 + (0.001)^2)^{1/2}$$

$$e = +/- 0.001414 \text{ psia}$$

$$e_p = +/- ((0.001)^2 + (0.001414)^2)^{1/2} / (1)^{1/2}$$

$$e_p = +/- 0.00173 \text{ psia}$$

2. Water Vapor Pressure

No. of Sensors = 4

Sensor sensitivity error (E): 0.1° F

2. Water Vapor Pressure (Cont'd)

Measurement system error (e):

Resolution: 0.01° F

Repeatability: 0.01° F

$$e = +/- ((0.01)^2 + (0.01)^2)^{1/2}$$

$$e = +/- 0.01414° F$$

At a dewpoint of 72° F, the equivalent water vapor pressure change (as determined from steam tables) is 0.013 psia/° F.

$$E = +/- 0.1° F (0.013 psia/° F)$$

$$E = +/- 0.0013 psia$$

$$e = +/- 0.01414° F (0.013 psia/° F)$$

$$e = +/- 0.00018 psia$$

$$e_{pv} = +/- ((0.0013)^2 + (0.00018)^2)^{1/2} /(4)^{1/2}$$

$$e_{pv} = +/- 0.00065 psia$$

3. Temperature

No. of Sensors = 18

Sensor sensitivity error (E): 0.01° F

Measurement system error (e):

Resolution: 0.01° F

Repeatability: 0.01°F

$$e = +/- ((0.01)^2 + (0.01)^2)^{1/2}$$

$$e = /- 0.01414° F = +/- 0.01414° R$$

$$e_T = +/- ((0.01)^2 + (0.01414)^2)^{1/2} /(18)^{1/2}$$

$$e_T = /- 0.00408° R$$

4. Instrumentation Selection Guide Formula

$$ISG = +/- 2400/t \left(2(e_p/P)^2 + 2(e_{pv}/P)^2 + 2(e_T/T)^2\right)^{1/2}$$

$$ISG = +/- (2400/24) \left(2(0.00173/65.173)^2 + 2(0.00065/65.173)^2 + 2(0.00408/543.437)^2\right)^{1/2}$$

ISG = +/- 0.004 %/day

APPENDIX H

TYPE B AND C LEAKAGE RATE TEST RESULTS

APPENDIX H

A. TYPE B AND C LEAKAGE RATE TEST RESULTS APPENDIX DESCRIPTION

The following tables list as-found and as-left LLRT results for each penetration. These results are from the Unit 1, 1989-90 Outage, 1991 Maintenance Outage, and 1992 Refueling Outage. All results are in sccm.

The as found values reported for penetrations 11-1, 12-1, and 12-2 (S/G Manways) for the 1992 Refueling Outage are the as left values from the previous outage. As found values could not be determined due to excessive test leakage. The leak locations (ie manway or test cover) were not determined before the manways were removed for internal steam generator work.

1989-1990 LLRT MAXIMUM PATHWAY LEAKAGE

PENETRATION	AS-FOUND	AS-LEFT
1A	134	182
1B	338	338
1C	110	110
1D	92	92
2A	5150	5150
2B	785	431
7A	48	48
7B	38	38
8	1510	1010
9	1210	1210
10	480	480
11-1	16	79
11-2	62	15
12-1	9820	212
12-2	10	124
13	32087	486
14	417	417
15	43	43
16	38	353
18	3	407
19A	268	268
19B	43	43
20A	1890	1890
20B	545	545
20C	140	1530
23	85,600	1080
24	5	5
37	20	20
38	20	20

1989-1990 LLRT MAXIMUM PATHWAY LEAKAGE

PENETRATION	AS-FOUND	AS-LEFT
39	43	43
41	143044	12874
42	20	20
44	1095	1095
47A	401	401
47B	178	224
47C	370	195
47D	20	20
48A	97	308
48B	372	372
49A	198	198
49B	14	14
49C	18	18
50	250	250
53E	263	257
54W	96	64
55E	219	221
55W	52	52
56E	29	29
56W	4	4
59	83	83
60	2	2
61	740	643
62	2	2
64	52	52
67	20	43
68	1110	7398
69	2035	925
TOTAL	**301749**	**42438**

1991 LLRT MAXIMUM PATHWAY LEAKAGE

PENETRATION	AS-FOUND	AS-LEFT
1A	345	345
1B	328	328
1C	20	20
1D	2	2
2A	5150	5150
2B	463	463
7A	48	48
7B	38	38
8	1010	1010
9	1210	1210
10	480	480
11-1	79	79
11-2	28	28
12-1	212	212
12-2	124	124
13	3063	1458
14	1375	417
15	36	36
16	168	168
18	28	28
19A	392	392
19B	43	43
20A	6960	505
20B	3810	352
20C	437	487
23	1080	1080
24	310	310
37	107	107
38	20	20

1991 LLRT MAXIMUM PATHWAY LEAKAGE

PENETRATION	AS-FOUND	AS-LEFT
39	43	43
41	12874	12874
42	20	20
44	1055	1095
47A	2	2
47B	2	2
47C	38	38
47D	184	184
48A	20	20
48B	93	93
49A	16	16
49B	12	12
49C	12	12
50	250	250
53E	217	180
54W	104	104
55E	157	157
55W	115	115
56E	15	15
56W	7	7
59	83	83
60	2	2
61	643	643
62	5	5
64	11	11
67	31	31
68	3699	3699
69	3699	3699
TOTAL	50865	38352

1992 LLRT MAXIMUM PATHWAY LEAKAGE

PENETRATION	AS-FOUND	AS-LEFT
1A	1316	137
1B	8660	432
1C	136	20
1D	2	2
2A	1380	1891
2B	365	183
7A	32	6
7B	38	20
8	1224	2780
9	1248	1248
10	162	780
11-1	79	190
11-2	29	275
12-1	212	249
12-2	124	504
13	211966	486
14	625	1667
15	87	87
16	20	20
18	20	20
19A	3720	3720
19B	20	20
20A	453	453
20B	1013	101
20C	806	101
23	6240	2250
24	20	20
37	240	240
38	44	44

1992 LLRT MAXIMUM PATHWAY LEAKAGE

PENETRATION	AS-FOUND	AS-LEFT
39	4588	4588
41	2861	2265
42	2	20
44	79	79
47A	232	232
47B	20	20
47C	215	215
47D	310	310
48A	29	142
48B	91	91
49A	21	21
49B	33	33
49C	20	20
50	202	12
53E	158	158
54W	101	86
55E	257	257
55W	180	180
56E	15	15
56W	4	4
59	100	100
60	20	20
61	1199	1199
62	20	20
64	20	20
67	27	40
68	3699	5548
69	9710	5548
TOTAL	264494	39189

B. SUMMARY OF MINIMUM PATHWAY IMPROVEMENTS FOR THE 1992 REFUELING OUTAGE

1. Definitions - The following definitions are used to be consistent with Calvert Cliffs Instructions.

"As-Found" Leakage - The leakage rate determined during the ILRT before any repairs or adjustments are performed.

"As-Left" Leakage - The leakage rate determined during the ILRT after any repairs or adjustments are performed. As-left and as-found results are the same if no repairs or adjustments are performed during the test.

"End of Cycle" Leakage - The leakage rate determined by adding minimum pathway leakage improvements to the "as-found" test results. This leakage rate is a rough estimate of what leakage might have been if and ILRT was performed immediately after shutdown. This calculation is described in Information Notice 85-71. We are reporting this value without using it as a test limit.

2. Results

The 95% UCL test results (in wt %) are shown below:

	Test Result
As-Left	0.0732
As-Found	0.0832
End of Cycle	0.1564

The table on the following page summarizes Local Leak Rate Improvements that have occurred because of repairs or adjustments performed during the 1992 Unit 1 Refueling Outage. These results are minimum pathway leakage results. When totaled the improvements equal 123,236 sccm or 0.07321 wt %/day.

Most of the improvements can be attributed to repairing the containment isolation valves in penetration 13. An evaluation is being performed to determine if preventive measures should be taken to prevent recurrence of high minimum pathway leakage for this penetration.

1992 LLRT MINIMUM PATHWAY IMPROVEMENTS

PENETRATION	BEFORE MAINTENANCE	AFTER MAINTENANCE	IMPROVEMENT
1A	170	32	138
1B	8660	27	8633
1C	20	20	0
2A	960	960	0
2B	43	43	0
7A	32	6	26
7B	38	20	18
8	37	20	17
10	20	20	0
11-1	79	190	0
11-2	29	275	0
12-1	212	249	0
12-2	124	504	0
13	105,983	243	105,740
14	313	834	0
19A	43	109	0
20B	39	39	0
20C	101	10	91
23	6240	2250	3990
41	1431	1133	298
42	2	20	0
48A	22	9	13
48B	20	22	0
50	101	6	95
54W	101	86	15
67	27	40	0
68	3699	5548	0
69	9710	5548	4162
TOTAL			123,236

APPENDIX I

FAILED LOCAL LEAKAGE RATE TEST REPORT

APPENDIX I

FAILED LOCAL LEAKAGE RATE TEST REPORT

A. INTRODUCTION

Section V.B.3 of 10CFR50 Appendix J requires a separate, accompanying report to analyze and document any leakage rate failures within the Type A, B, or C testing programs.

B. 1989 - 1990 MAINTENANCE OUTAGE

The as found maximum pathway combined leakage for all penetrations subject to Type B & C testing exceeded the 0.6 La (207,700 sccm) limit specified in Section III.C.3. of Appendix J dur: .g the 1989 - 1990 Maintenance Outage. The combined as found maximum pathway local leakage rate was 301,749 sccm, approximately 145% of the allowable limit. The most significant contributors are listed below:

Pen #	Function	Valve #	As Found	As Left	Cause
23	RC Drain	1-CV-4260	85,600 sccm	1,080 sccm	disc/seat erosion
41	SDC	1-MOV-651 1-MOV-652	143,044 sccm	12,874 sccm	limit switch out of adjustment

Valves at other penetrations had maintenance performed on them because leakage rates were above administrative guidelines. However, these aren't listed in this report because they were not significant contributors to the failure.

Thu as left combined local leakage rate after repairs was 42,438 sccm.

C. 1992 REFUELING OUTAGE

The as found maximum pathway combined leakage for all penetrations subject to Type B and C testing exceeded the 0.5 La (173,083 sccm) limit specified in Technical Specifications during the 1992 Refueling Outage. The combined as-found maximum pathway local leakage rate was 264,494 sccm, approximately 153% of the allowable limit. The combined leakage rate criteria failure was caused almost entirely by excessive ,eakage at penetration 13, Containment Purge (1-CV-1410 and 1411), which accounted for 211,966 sccm of the total. The purge valves are tested by drop test. It is believed that a leaking fitting in the test rig could have contributed to the failure. However, valve seats were replaced before the root cause could be determined. In any case, the as left test shows the valves are performing satisfactorily.

Valves at many other penetrations had maintenance performed because individual leakag: rates were above administrative guidelines. However, these are not listed in this repo:t because they were not significant contributors to the failure.

The as-left combined local leakage rate after repairs was 39,189 sccm.