

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
UNIT 1

DOCKET NO. 50-413

REACTOR CONTAINMENT BUILDING
INTEGRATED LEAK RATE TEST

NOVEMBER 24-26, 1987

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DUKE POWER COMPANY
P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

February 25, 1988

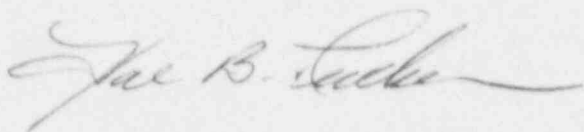
U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

Subject: Catawba Nuclear Station, Unit 1
Docket No. 50-413
Reactor Containment Building
Integrated Leak Rate Test

Gentlemen:

Pursuant to 10 CFR 50, Appendix J, Section V.B and Technical Specification 4.6.1.2, please find attached the Catawba Nuclear Station Unit 1 Reactor Containment Building Integrated Leak Rate Test (ILRT) Report. The ILRT was successfully completed on November 28, 1988, and analysis of final test data shows the results to be well within the appropriate limits.

Very truly yours,



Hal B. Tucker

JGT/1451/sbn

Attachment

xc: Dr. J. Nelson Grace, Regional Administration
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mr. P. K. Van Doorn
NRC Resident Inspector
Catawba Nuclear Station

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DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
UNIT 1

REACTOR CONTAINMENT BUILDING
INTEGRATED LEAK RATE TEST
(INITIAL PERIODIC TEST)
CONDUCTED NOVEMBER 24-26, 1987
FILE NO: CN-180.25

Prepared By: M. A. Geckle
M. A. Geckle
Associate Engineer

Reviewed By: J. L. Taylor
J. L. Taylor
Test Engineer

Reviewed By: W. F. Beaver
W. F. Beaver
Performance Engineer

Approved By: R. F. Wardell
R. F. Wardell
Superintendent, Technical Services

AD 2
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I. INTRODUCTION

The initial periodic Containment Integrated Leak Rate Test on the primary containment structure of the Duke Power Company Catawba Nuclear Station Unit 1 Pressurized Water Reactor was successfully completed on November 26, 1987. The ILRT was conducted in conformance with the requirements of 10CFR50 Appendix J (and associated ANSI standards) and Catawba Technical Specifications. A 24-hour test was performed utilizing the absolute test method and mass plot data analysis technique with the containment pressure > 14.68 psig (calculated peak containment accident pressure). The results were verified by the satisfactory completion of a superimposed leak rate test.

Analysis of final test data shows the results to be well within the specified limits for this containment. The acceptance criterion for this test is that the containment integrated leakage rate be less than 0.15 percent by weight of the containment air mass per day for both the "As-Found" and "As-Left" cases. The actual test results are 0.06141%/day for the "As-Found" Type A leakage rate (95% UCL leakage rate + Leakage Penalties + Leakage Savings) and 0.05216%/day for the "As-Left" Type A leakage rate (95% UCL leakage rate + Leakage Penalties).

II. TEST BACKGROUND INFORMATION

A. Description of Containment

The Catawba Unit 1 Containment System consists of a free-standing steel containment vessel surrounded by a separate concrete reactor building. A six foot annular space is provided between the outer wall of the containment vessel and the inner wall of the reactor building to allow filtration of containment vessel leakage during accident conditions to minimize off-site doses. The following containment vessel specifications are used as base data for the containment leak rate test.

* Containment Net Free Volume	1,172,618 ft ³
* Design Pressure	15 psig
* Calculated Peak Accident Pressure	14.68 psig
* Test Pressure	≥ 14.68 psig
* Test Temperature	Ambient
* Maximum Allowable Leakage Rate (L _a)	0.2 weight %/day

B. Description of ILRT Instrumentation

The containment system was equipped with instrumentation to permit leakage rate determination by the absolute method. Utilizing this method, the actual mass of dry air within the containment is calculated. The leakage rate becomes the time rate of change of this value. The mass of air (W) is calculated according to the ideal gas law as follows:

$$W = \frac{(P - P_v)V}{RT}$$

Where: P = Containment Absolute Pressure
P_v = Partial Pressure of Water Vapor
V = Containment Net Free Volume
R = Gas Constant
T = Containment Absolute Temperature

The primary measurement variables required are containment absolute pressure, containment relative humidity, and containment temperature as a function of time. During the supplemental verification test, containment bleed-off flow is also recorded.

52 Resistance Temperature Detectors, 3 Dewpoint Hygrometers, and 3 Pressure Sensors are installed at predetermined locations in the containment vessel to allow determination of weighted average temperatures, vapor pressures, and pressures. For analysis purposes, the containment is divided into three compartments, with the following specifications:

<u>Compartment</u>	<u>Volume Fraction</u>	<u># RTDs</u>	<u># Dewpoint Hygrometers</u>	<u># Pressure Sensors</u>
Lower Containment	0.271	24	1	1
Upper Containment	0.595	13	1	1
Ice Condenser	0.134	15	1	1
Totals	1.0	52	3	3

1. Pressure Instrumentation

Three precision pressure gauges were installed outside the containment vessel, with pressure tubing connecting each gauge to its applicable compartment containment penetration. The gauges used were Ruska Model 6000-801-40 psia gauges, with the following specifications:

Range: 0 to 40 psia
 Repeatability: 24 Hr: ± 0.0008 psi
 90 Day: ± 0.0016 psi
 Accuracy: $\pm(0.01\%$ Full Scale + 0.011% Reading) or better, traceable to NBS
 Sensitivity: $\pm 0.002\%$ FS
 Output: DC Analog Output (0-4 v) to Digital Meter for display and Accurex for recording.

2. Temperature Instrumentation

Fifty-two precision Resistance Temperature Detectors were located throughout the containment to allow measurement of the weighted average air temperature. The locations of the RTDs are shown in Appendix C. The RTDs used were Rosemount Model No. 78S, with the following specifications:

Range: 0 to 200°F
 Repeatability: $\pm 0.025\%$ over entire range
 Accuracy: $\pm 0.45^\circ\text{F}$ over entire range
 Sensitivity: $\pm 0.09^\circ\text{F}$
 Element: Platinum
 Resistance: 100 ohms at 32°F (nominal)

3. Humidity Instrumentation

Six Dewpoint Temperature Analyzers were located in containment. (Each compartment had one primary and one backup dewpoint cell installed side-by-side.) The locations of the dewpoint cells are also shown in Appendix C. The instruments used were EG&G Dewtrack Model 200, with the following specifications:

Range: -43.6°F to 140°F
Accuracy: $\pm 1^\circ\text{F}$, traceable to NBS
Sensitivity: $\pm 0.36^\circ\text{F}$ worst case
Output: 4-20 mA

4. Data Acquisition Facility

The ILRT instrumentation system consists of a central data acquisition system with a remote scanner/multiplexer unit. All RTDs are wired to the remote scanner/multiplexer unit located inside containment; the signals are then multiplexed and sent to the central data acquisition facility. All other sensors are wired directly to the data acquisition facility located outside containment. The Data Acquisition Facility is an Accurex Audodata 10/50 system, which interfaces with the IBM System 9000 Benchtop computer and is used to scan all 58 channel inputs at specified intervals. Scanners have the following specifications:

Accurex 1061-31 Ten Channel, 3-Wire Scanner

Input Range: -10 to +10 VDC
Accuracy: $\pm 0.005\%$ Full Scale, $\pm 0.005\%$ Reading,
 ± 0.000025 VDC @ 20 to 30°C using High
Resolution Output
Sensitivity: $\pm 0.002\%$ FS

Accurex 1061- 51 Ten Channel, 5-Wire, Resistance/RTD
Scanner

Input Resistance Range: 500 Ω
Accuracy: $\pm 0.005\%$ Range, $\pm 0.015\%$ Reading,
 $\pm 0.025\Omega$ @ 20 to 30°C using High Resolution
Sensitivity: $\pm 0.01 \Omega$ ($\pm 0.05^\circ\text{F}$)

5. Flow Instrumentation

A turbine flowmeter was used to impose the leak during the verification test. The flowmeter used was a Flow Technology Model FTC-8C5.0-GJS FloCapsule with Model PRI-402A Flow Rate Monitor, with the following specifications:

Range: 0.5 to 5 ACFM
Repeatability: $\pm 0.25\%$ FS (± 0.0125 ACFM)
Accuracy: $\pm 0.2\%$, traceable to NBS
Output: Visual display plus 0-5 VDC signal for recording

6. Instrumentation Selection Guide (ISG) Calculation

The Instrumentation Selection Guide is an acceptable method to verify the ability of the instrumentation system to measure the containment integrated leakage rate. The ISG formula is described in American National Standard ANSI/ANS-56.8-1987.

The maximum allowable value for the ISG is 0.25 L, or 05%/day for Catawba. The ISG calculated for this test (4-hour duration) was 0.0105%/day. The ISG calculated for an 8-hour duration was 0.0316%/day.

C. Description of Computer Program

The ILRT System program is designed specifically to integrate the Accurex Autodata Ten/50 data acquisition system with the IBM System 9000 Benchtop computer for the calculation of leakage, with as little operator intervention as possible. Test parameters to be measured are pressure, dewpoint temperature, and dry bulb temperature inside the containment. Instrument readings by the data acquisition system are recorded on the hard disk of the System 9000. From this data, the leak rate is calculated by the computer and displayed on the computer monitor. Use of the absolute pressure method as described in ANS N45.4-1972 is the basis for the leakage calculations performed by the ILRT System program. The primary methodology is mass plot analysis as described in ANSI/ANS 56.8-1981. The secondary methodology is the total time calculation as described in BN-TOP-1. A description of the calculations performed is given in Appendix A.

The ILRT System program is executed using the multi-tasking facilities of the System 9000. This system allows the data acquisition to take place independent of the calculations. There are two tasks running concurrently. These are the Data Acquisition Task (DAT) and the Calculation Task (CALC). The majority of the calculations are done by DAT, while CALC is used primarily to perform the least squares regression of the data and to print reports and graphs.

DAT is the program that controls the data acquisition system. Dependent on the specified interval, DAT sends a signal to the Accurex to scan the channels for the data. The data is then sent to the 9000 and stored on disk. As the data is received, it is checked for validity. The validity check is performed by checking the variances of the calibrated temperatures in each building fraction. Any value that is greater than or less than a specified amount from the average for containment or any compartment thereof is flagged, and a warning is printed on the System 9000 printer immediately following the data set. DAT also performs all the calculations required to determine the total air mass in containment at any given time. The test elapsed time and corresponding air mass are also stored on hard disk by DAT.

CALC is the program that performs the least squares regression fit on the mass/time data. The operator must demand the calculations be performed by CALC.

D. Description of Pressurization Equipment

Pressurization for the Catawba Unit 1 ILRT was accomplished using two oil-free diesel-driven air compressors, each having a rated capacity of 1500 cfm at 150 psi. The compressed air, after passing through water-cooled aftercoolers and refrigerant air dryers, was routed to the discharge header of the instrument air system compressors. The air was then injected into Lower Containment and into the Ice Condenser via normal station/instrument air penetrations. (The air injected into the Ice Condenser was first passed through a Desiccant Air Dryer to further reduce the dewpoint prior to injection into the 15°F Ice Condenser Region.)

III. TEST RESULTS

A. Description of the Testing Sequence

During the Unit 1 EOC-2 refueling outage, several modifications were made to containment penetrations. Namely, spare penetrations M141, M234, and M452 were converted to Type-B penetrations (flanged both inside and outside of the Containment Vessel) to allow equipment access during the present and future refueling outages. Also, as part of the Upper Head Injection (UHI) System deletion, M406, M407, and M454 piping penetrations were cut and seal-welded closed. An As-Found Type C Test was performed on the UHI valves prior to their removal, and a Structural Integrity Test as required by ANSI N45.4-1972 was performed on the welded penetrations prior to ILRT.

The majority of the Type B and C local leakage rate testing was completed prior to the Type A test. As required by IE Information Notice 85-71, both As-Found and As-Left leak rate tests were performed on Type B and C penetrations which were repaired or modified during the refueling outage. A tabulation of the Leakage Savings resulting from this testing can be found in Appendix E.

In addition to the installation of the data acquisition system and instrumentation, preparation for the ILRT included inspections of the interior and exterior surfaces of both the Containment Vessel and the Reactor Building. The inspections, performed by Duke Power Company Design Engineering/Civil Group, were completed on 11/20/87. Another test prerequisite was the performance of a temperature survey, required by both ANSI N45.4-1972 and ANSI/ANS-56.8-1987 to verify the proper location of the RTDs in containment. The temperature survey was performed per Procedure TT/1/A/9100/42, and was satisfactorily completed on 11/22/87.

In order to provide air to the seals on the Personnel Air Locks inner doors and the Ice Condenser doors while instrument air to containment is isolated for the ILRT, a portable electric compressor is placed inside containment. During the installation of the compressor for this test, it was discovered that one of the Ice Condenser equipment access door seals leaked excessively, causing the small electric compressor to run constantly. (NOTE: The Ice condenser door seals are not part of the containment pressure boundary, as are the Airlock door seals, but rather provide a boundary between the cold air inside the Ice Condenser and the warmer containment air.) Due to the high probability of compressor failure due to overuse during the test (and a resultant loss of the Personnel Air Lock inner door seals), and due to the length of time required to replace the Ice Condenser equipment access door seal, a new portable electric compressor was purchased and utilized solely to provide air to the leaking door seal.

Operations alignment of containment penetrations was completed on 11/24/87, and pressurization of the Containment Vessel commenced at 0900 hours on 11/24/87. (A list of the containment penetrations not exposed to test pressure can be found in Appendix D.) The average pressurization rate was approximately 2 psi/hour.

Pressurization was secured at 1715 hours on 11/24/87, at which time the temperature stabilization phase was started. During the temperature stabilization period, a soap bubble test was performed on all hot mechanical penetrations as required by Catawba Technical Specifications. Also, leakage survey teams were dispatched to search for any leakage paths from containment. No significant leaks were identified.

The temperature stabilization criteria of ANSI/ANS-56.8-1987 were met at 2120 hours on 11/24/87, at which point the ILRT was initiated. After 24 hours of data accumulation, all acceptance criteria were met using the Mass Plot method, and the ILRT was officially terminated at 2122 hours on 11/25/87.

Following a containment air sample by Health Physics, an attempt was made to superimpose a leak through the Containment Air Release and Addition penetration at 2240 hours on 11/25/87. However, no air flow was obtained through the turbine flowmeter. After approximately eight hours of troubleshooting (including an entry into containment to verify the penetration valve alignment), it was determined that one of the two containment isolation valves was not passing flow. (Subsequent disassembly of one of the valves following the ILRT revealed the valve diaphragm, which had been replaced earlier in the outage, to be installed incorrectly.) It was decided to move the turbine flowmeter to another location. The flowmeter was connected to tubing from a containment pressure transmitter (one of the permanent containment pressure transmitters, independent of the ILRT pressure instrumentation), and a leak was successfully imposed on the Containment Vessel at 1122 hours on 11/26/87.

At 1535 hours on 11/26/87, the verification test was terminated with successful results, and depressurization of the containment vessel was initiated at 1620 hours. The rate of depressurization was limited due to the unavailability of two 4" Containment Air Release and Addition penetrations. (Two diaphragm valves had been improperly assembled during the outage.) Also, negligible airflow was obtained through the deflated seals of the Upper Personnel Air Lock due to the tight fit of the inner door. (Even with the door seals completely deflated, there was minimal clearance between the door and the door frame.) As a result, the average depressurization rate was limited to less than 1.5 psi/hour, and 12 hours elapsed before the Containment Vessel was completely depressurized. Containment was opened for the continuation of outage activities at 0430 hours on 11/27/87.

No equipment damage was found during the post-ILRT containment inspection, except for a few broken light bulbs. There were no instrumentation failures during the performance of the test.

B. Analysis and Interpretation

1. Temperature Stabilization

Containment ventilation fans were run during pressurization to aid in mixing the containment air. Due to the cool ambient conditions, the approximate average compartment temperature rise during pressurization was only 2.5°F. As a result, containment temperature stabilized rapidly, and the stabilization criteria of ANSI/ANS-56.8-1987 were met within the minimum four hour period.

2. Pressure Decay (24 Hour) Test

Due to the highly stable conditions inside containment following the temperature stabilization period, coupled with the leak-tightness of the containment penetrations (no significant leaks were found by the leakage survey teams), the 95% Upper Confidence Limit Mass Point Leakage Rate was well below the acceptable limit after only five hours of data accumulation. However, in order to meet the code requirements, the test was conducted for a duration of 24 hours. The results were as follows:

Measured Leakage Rate:	0.0457%/day
95% UCL Leakage Rate:	0.0508%/day
As-Found Leakage Rate:	0.0614%/day (95% UCL + Leakage Savings + Leakage Penalty)
As-Left Leakage Rate:	0.0522%/day (95% UCL + Leakage Penalty)
Acceptance Criterion:	0.15%/day (75% of L_a)

Plots of data accumulated during the 24 hour test reveal relatively smooth, predictable trends, with the exception of perturbations occurring at approximately 12.5 hours and again at 14 hours into the test. The transients are noticeable on the Mass Point Leakage Rate plot, as well as on the pressure and temperature plots for each of the three compartments. The most plausible explanation for the perturbations could be one or both of the following: (1) Due to its almost continuous operation, the portable electric compressor supplying the leaking Ice Condenser equipment access door seal was tripping on thermal overload. This allowed the seal to deflate completely (causing a pressure/temperature spike), which in turn allowed the warmer air from Upper Containment to migrate into the Ice Condenser. (2) Some of the Ice Condenser Air Handling Units were beginning to frost, causing their respective

fans to trip off. (These units were later put in manual defrost mode and the fans subsequently restarted.) Both of these explanations are supported by the following two facts: (1) The pressure and temperature spikes are more pronounced on the Upper Containment plots than on the Lower Containment plots. (2) The Ice Condenser average temperature started to increase rapidly at 12.5 hours into the test. Several hours later, the rate of temperature rise was decreased when some of the Air Handling Units fans were restarted. Although the Ice Condenser average temperature was never returned to its original low value, conditions elsewhere in containment restabilized, and the Mass Point leakage rate trend returned to essentially a horizontal line.

It may be worth noting that although the measured leakage using the Total Time Method was acceptable after 8 hours of data accumulation, the 95% UCL leakage using the Total Time Method (with BN-TOP-1 short duration acceptance criteria) did not meet the acceptance criterion until 24 hours into the test.

3. Superimposed Leak Rate Test

A superimposed leak equivalent to 0.1989%/day was added to the existing containment leakage using the turbine flowmeter. After 4 hours and 10 minutes of data accumulation, the verification test was terminated with the following acceptable results:

Minimum acceptable Measured Leakage Rate: 0.1946%/day
(24-Hour Test Measured Leakage Rate + Superimposed Leak Rate - 25% of L_a)

Maximum acceptable Measured Leakage Rate: 0.2946%/day
(24-Hour Test Measured Leakage Rate + Superimposed Leak Rate + 25% of L_a)

Measured Leakage Rate during Verification Test: 0.2701%/day

It should be noted that during the 14 hour delay between the end of the 24 hour test and the beginning of the superimposed leak rate test, the Mass Point leakage rate increased slightly (due to a Health Physics sample, an entry into containment, and various troubleshooting). However, even if the measured leakage rate after 38 hours were substituted for the measured leakage rate after 24 hours in the above acceptance criteria, the results of the supplemental test are still within the $\pm 0.25 L_a$ acceptance limits. Also, since the measured leakage rates at 24 hours and 38 hours were the minimum and maximum leakage rates, resp., in that 14 hour time span, the acceptance criteria were met for all measured leakage rates between 24 and 38 hours.

IV. FIGURES

A. Temperature Stabilization Plots

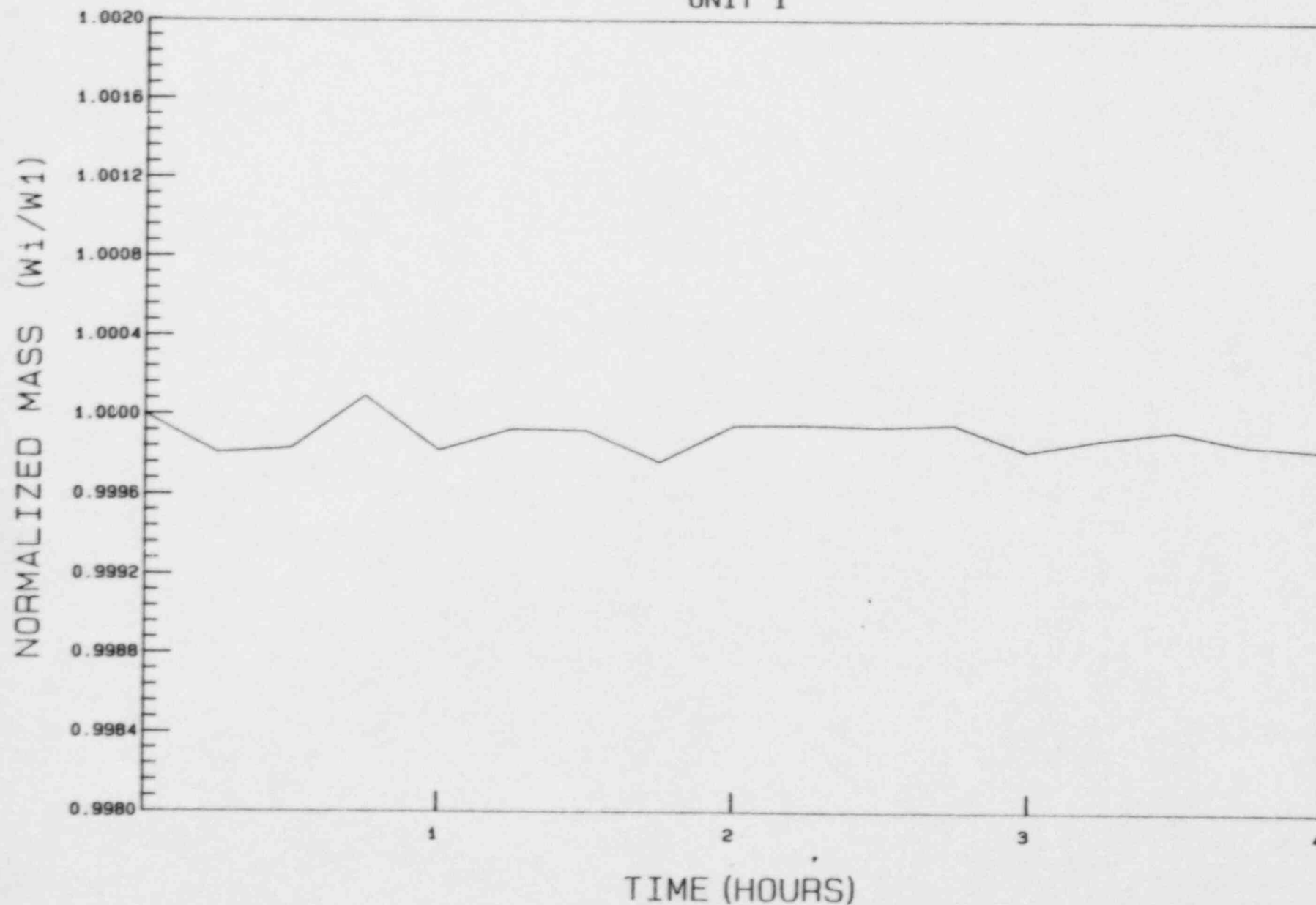
The attached plots show data accumulated during the four hour temperature stabilization period, beginning at 1720 hours and ending at 2120 hours on 11/24/87.

- Normalized Containment Mass
- Lower Containment Pressure
- Lower Containment Avg. Temp.
- Lower Containment Vapor Pressure
- Upper Containment Pressure
- Upper Containment Avg. Temp.
- Upper Containment Vapor Pressure
- Ice Condenser Pressure
- Ice Condenser Avg. Temp.
- Ice Condenser Vapor Pressure

NORMALIZED CONTAINMENT MASS

CATAWBA NUCLEAR STATION

UNIT 1

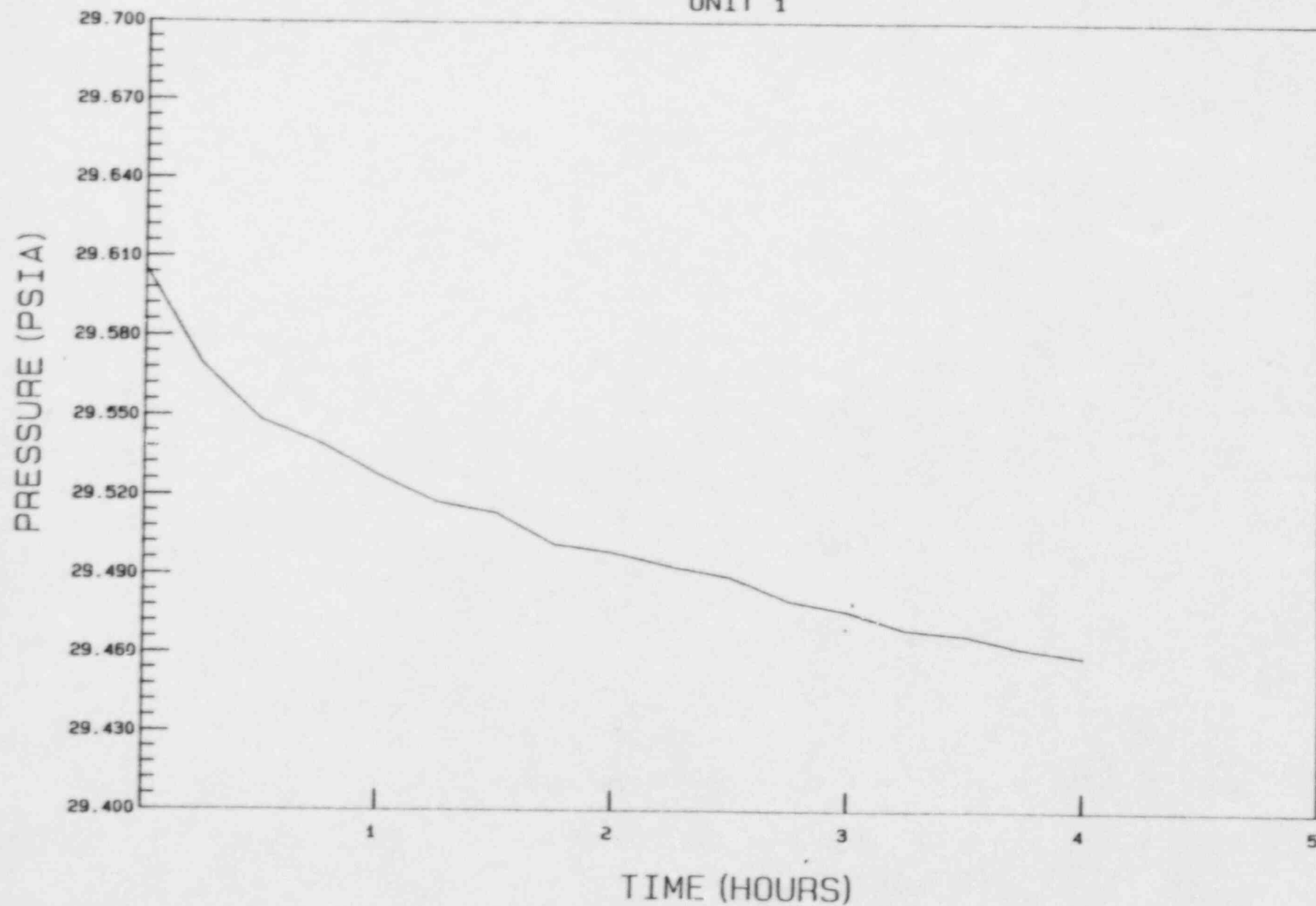


11/24/87 17:20:19 TO 11/24/87 21:20:14

LOWER CONTAINMENT PRESSURE

CATAWBA NUCLEAR STATION

UNIT 1

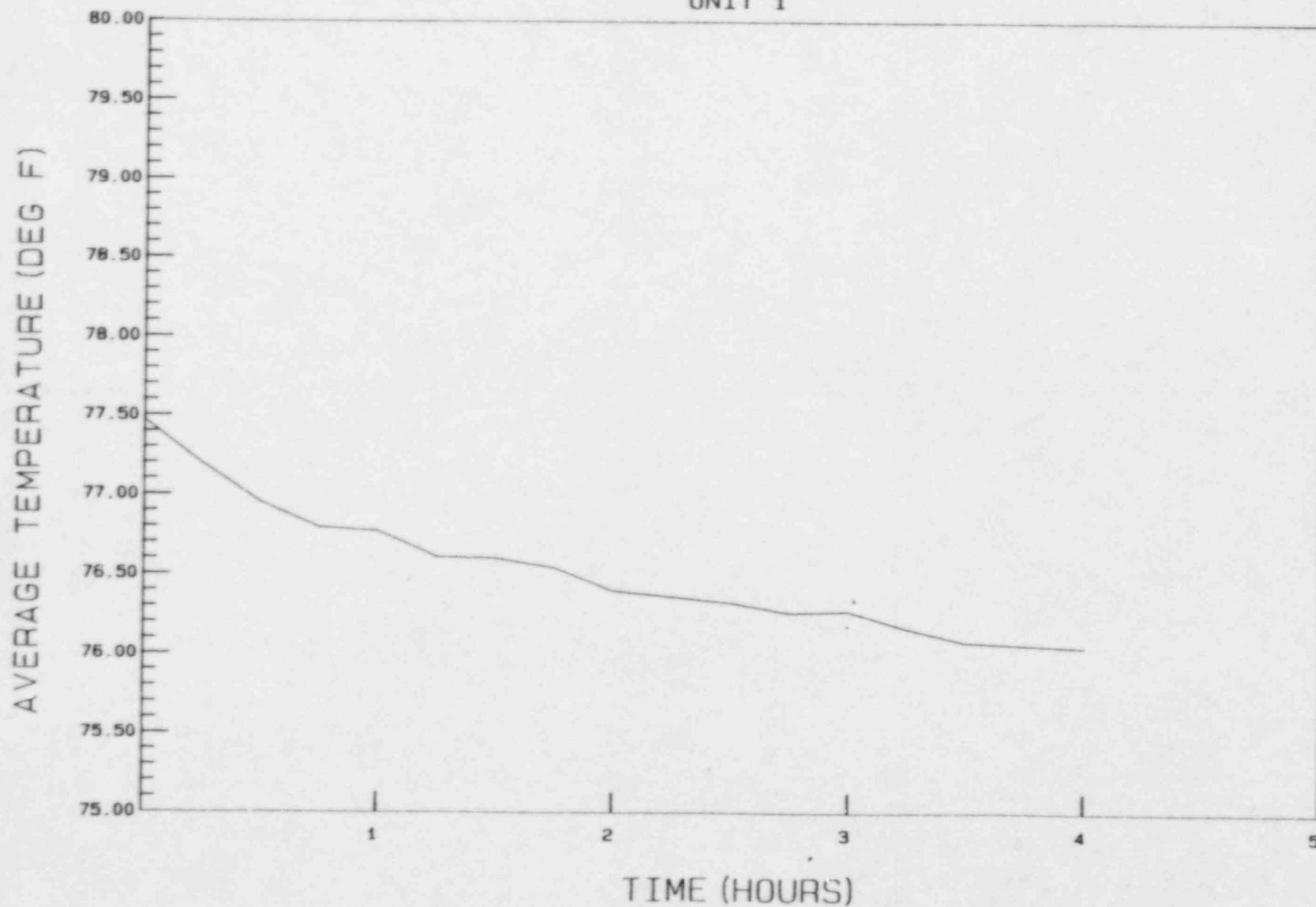


11/24/87 17: 20: 19 TO 11/24/87 21: 20: 14

LOWER CONTAINMENT AVG. TEMP.

CATAWBA NUCLEAR STATION

UNIT 1

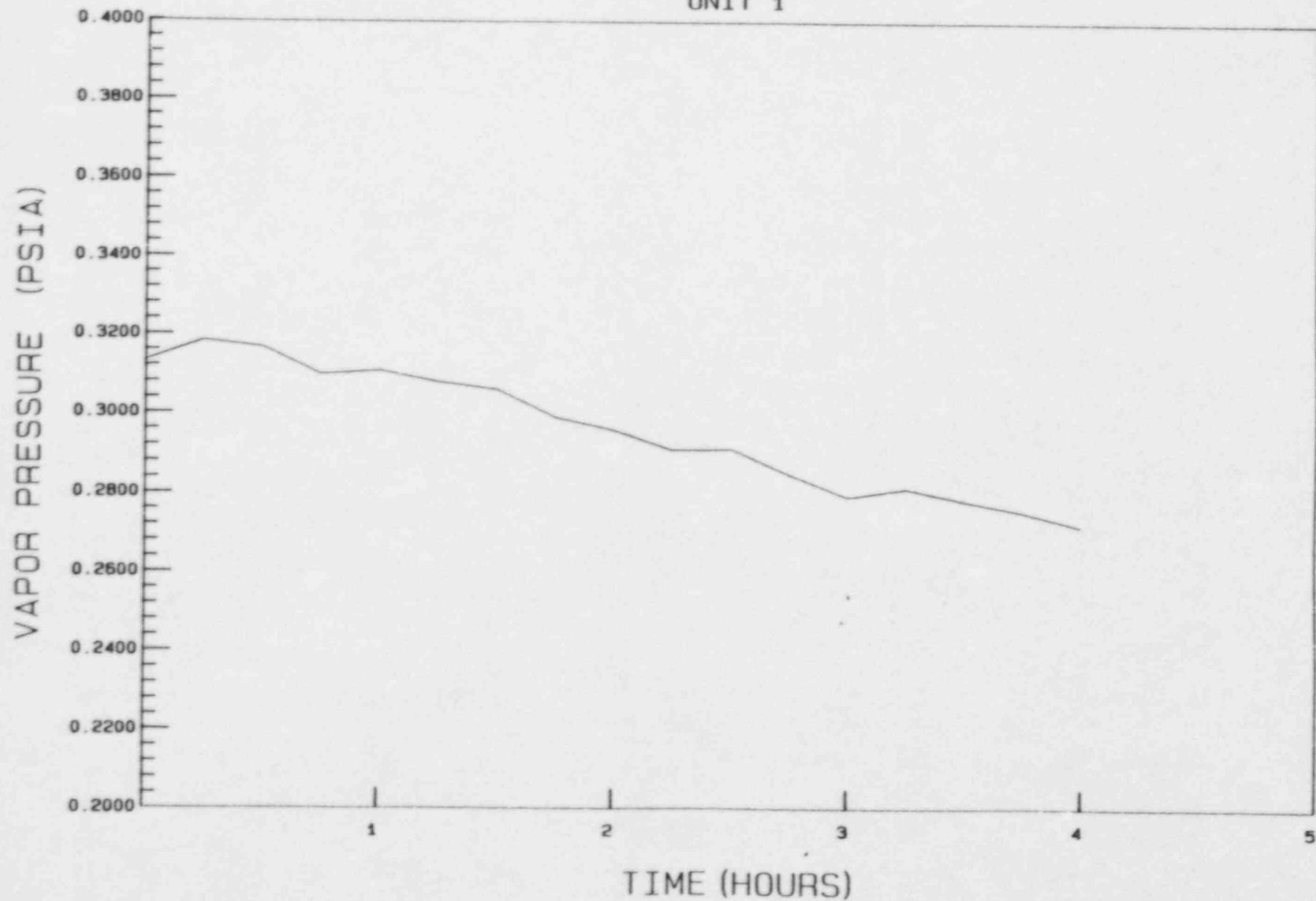


11/24/87 17:20:19 TO 11/24/87 21:20:14

LOWER CONTAINMENT VAPOR PRESSURE

CATAWBA NUCLEAR STATION

UNIT 1

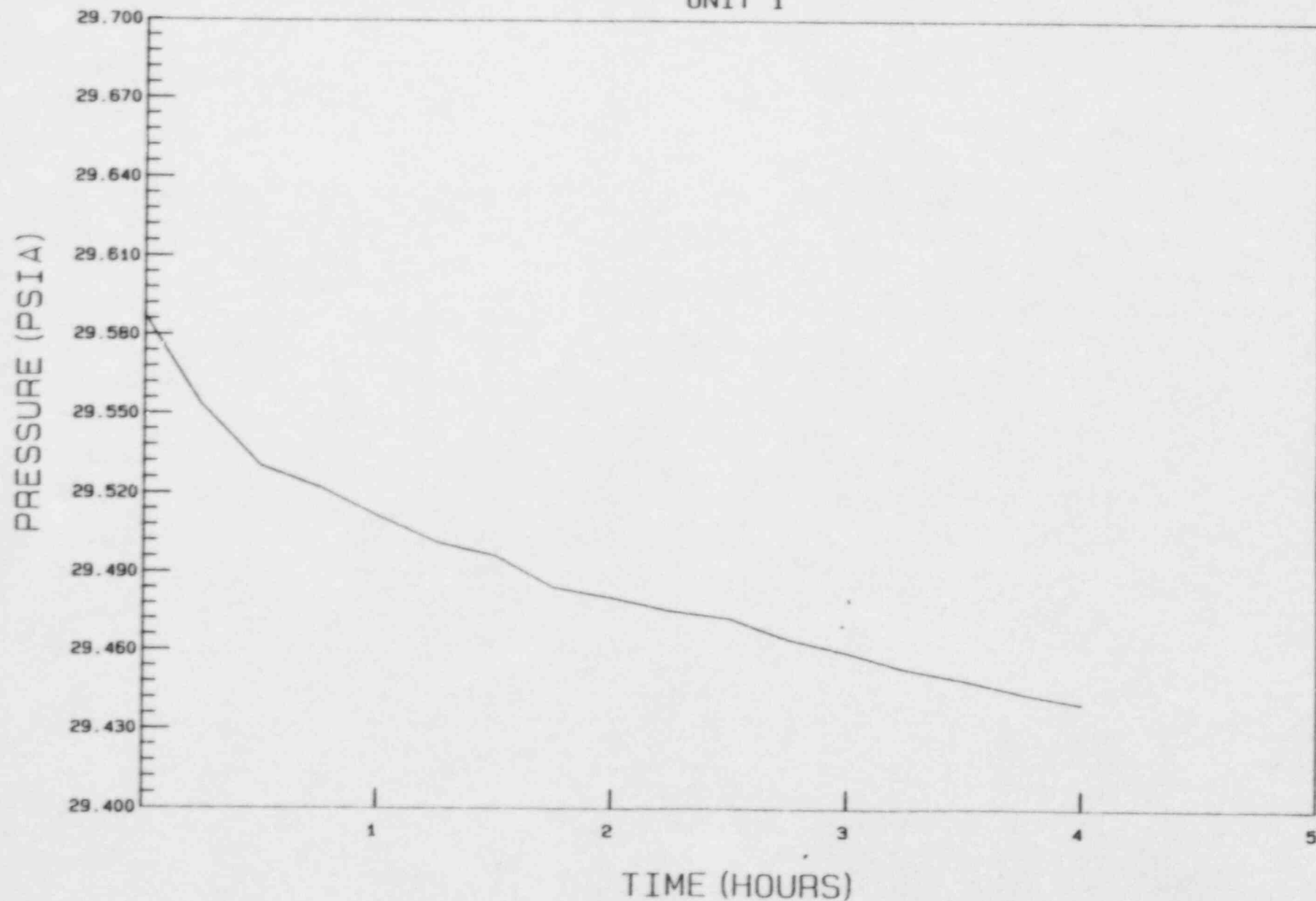


11/24/87 17: 20: 19 TO 11/24/87 21: 20: 14

UPPER CONTAINMENT PRESSURE

CATAWBA NUCLEAR STATION

UNIT 1

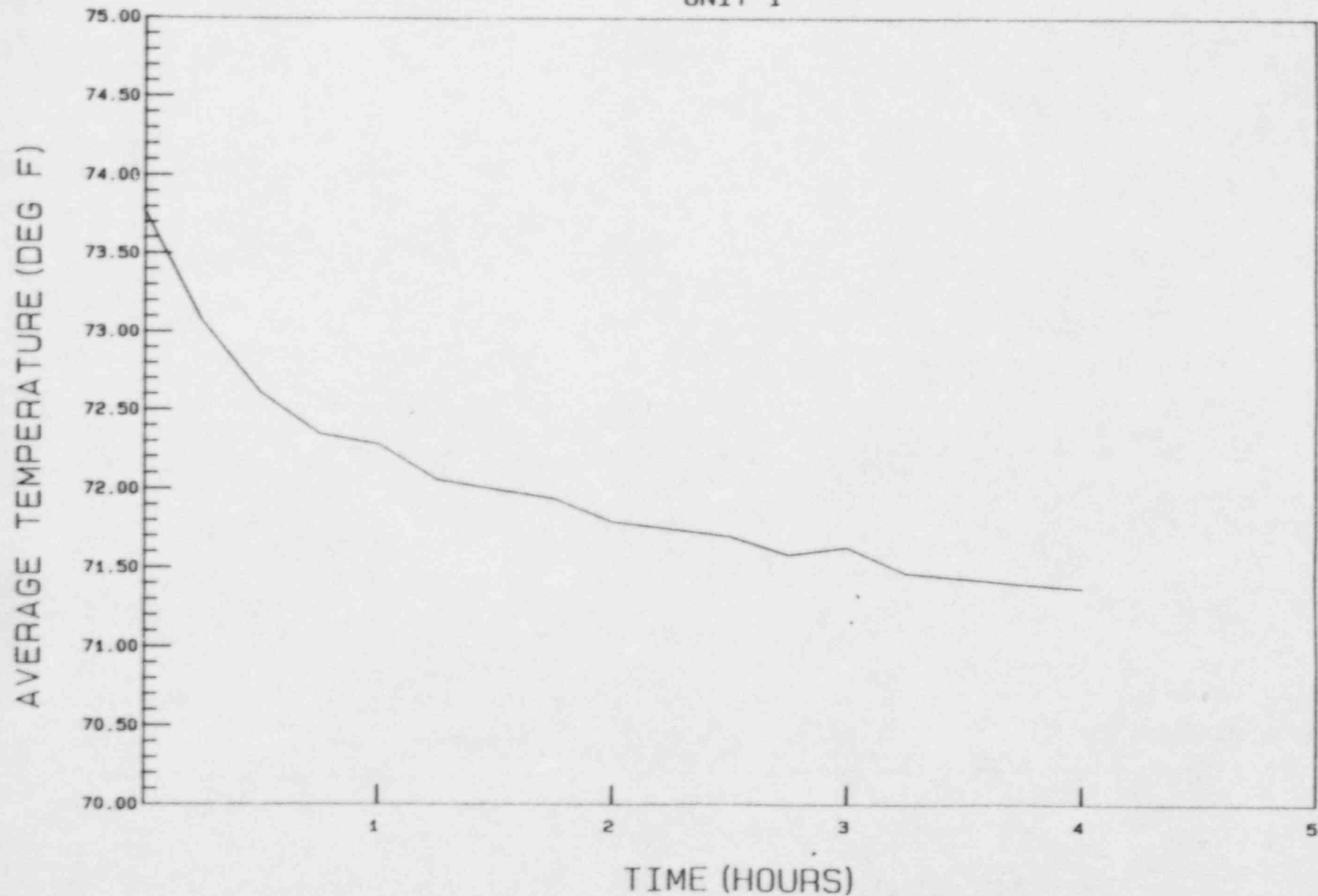


11/24/87 17:20:19 TO 11/24/87 21:20:14

UPPER CONTAINMENT AVG. TEMP.

CATAWBA NUCLEAR STATION

UNIT 1

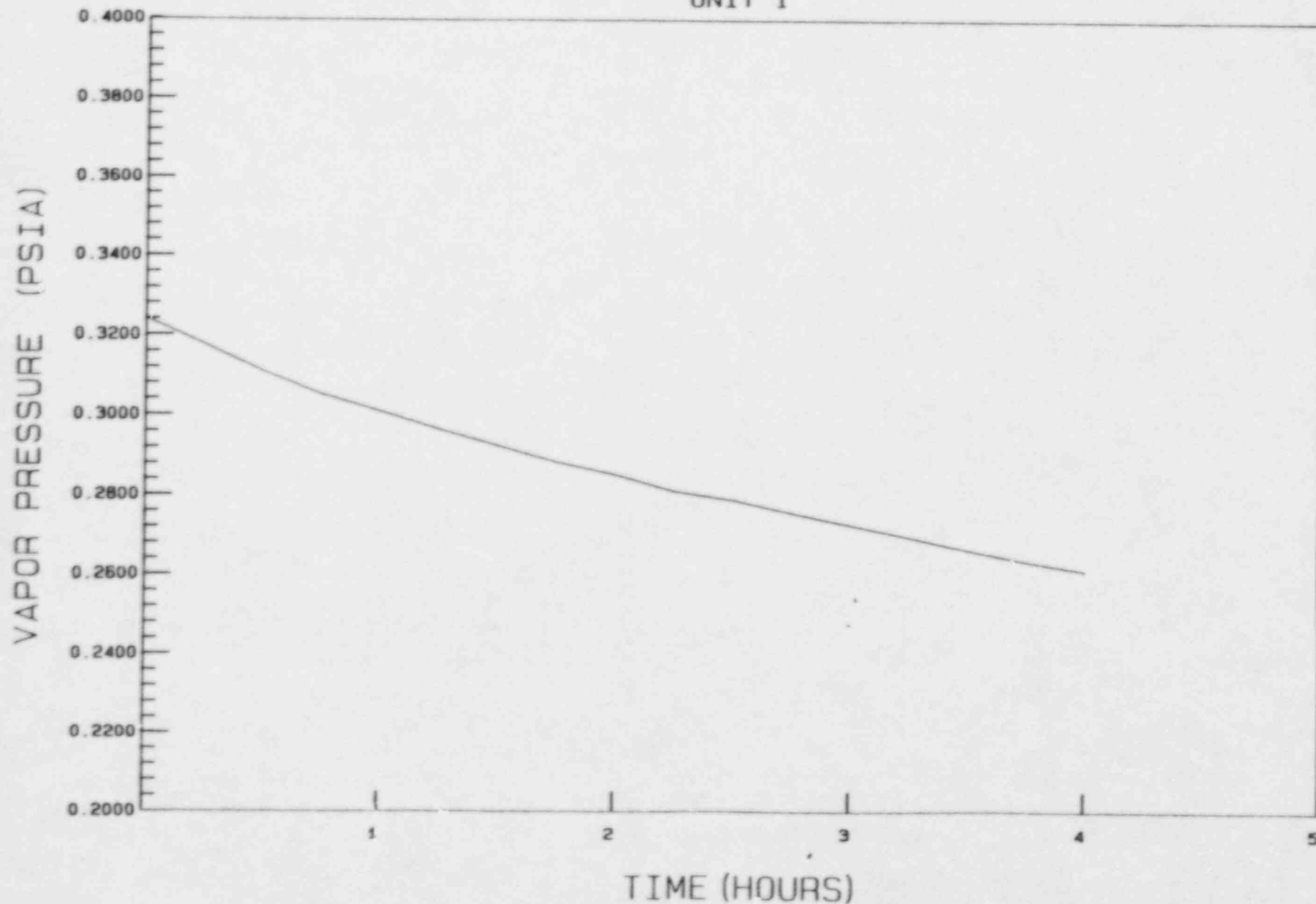


11/24/87 17: 20: 19 TO 11/24/87 21: 20: 14

UPPER CONTAINMENT VAPOR PRESSURE

CATAWBA NUCLEAR STATION

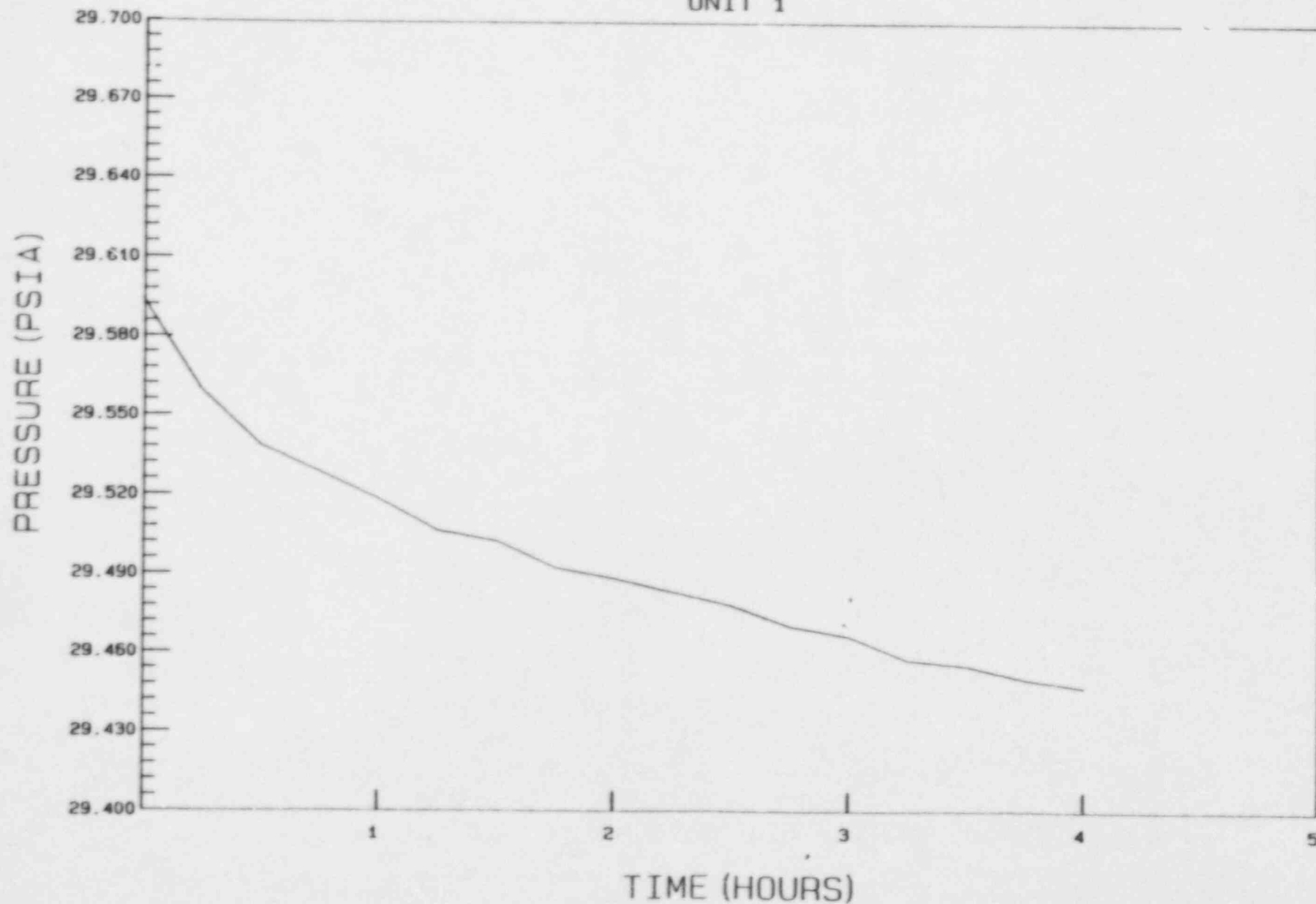
UNIT 1



ICE CONDENSER PRESSURE

CATAWBA NUCLEAR STATION

UNIT 1

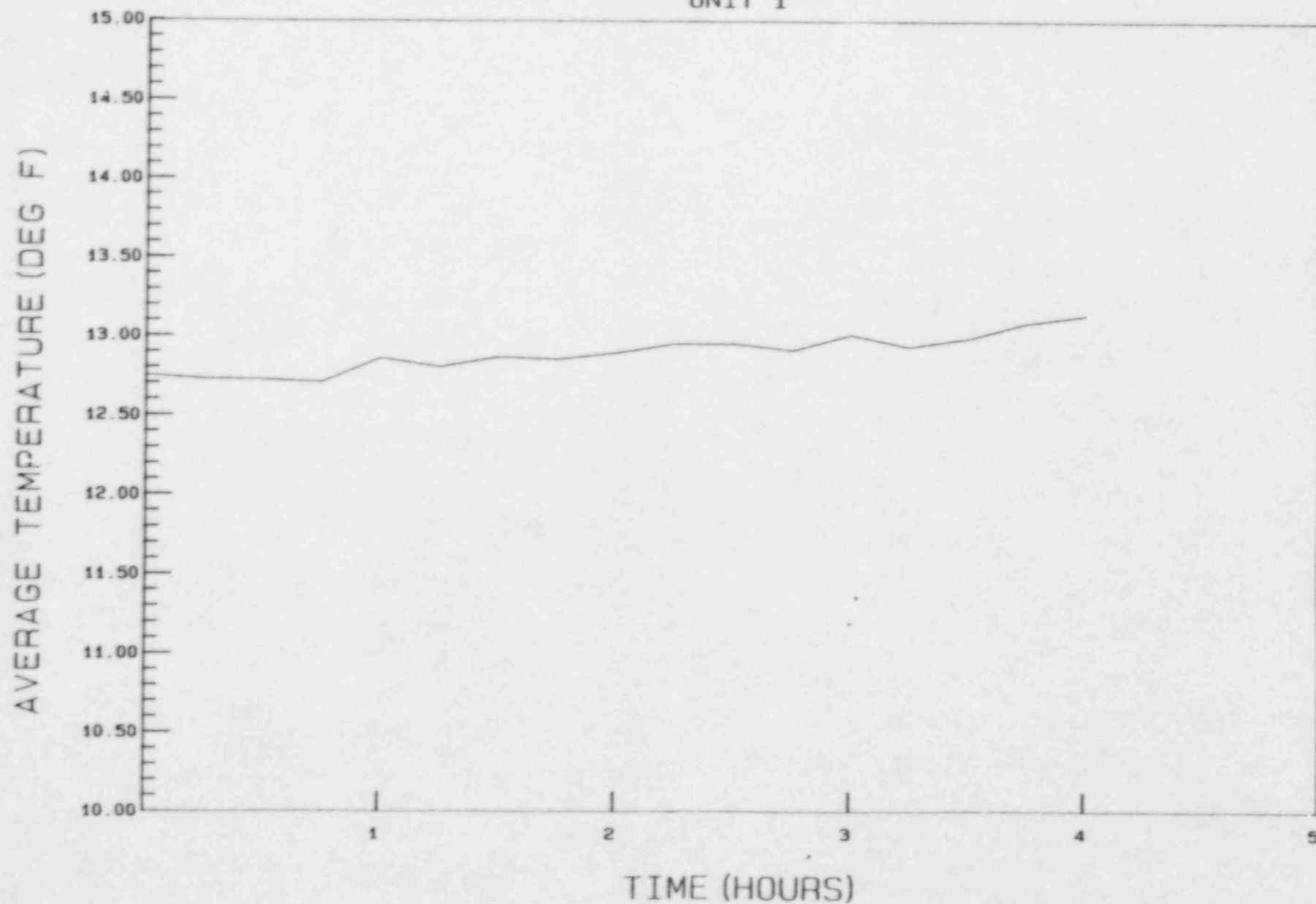


11/24/87 17:20:19 TO 11/24/87 21:20:14

ICE CONDENSER AVG. TEMP.

CATAWBA NUCLEAR STATION

UNIT 1

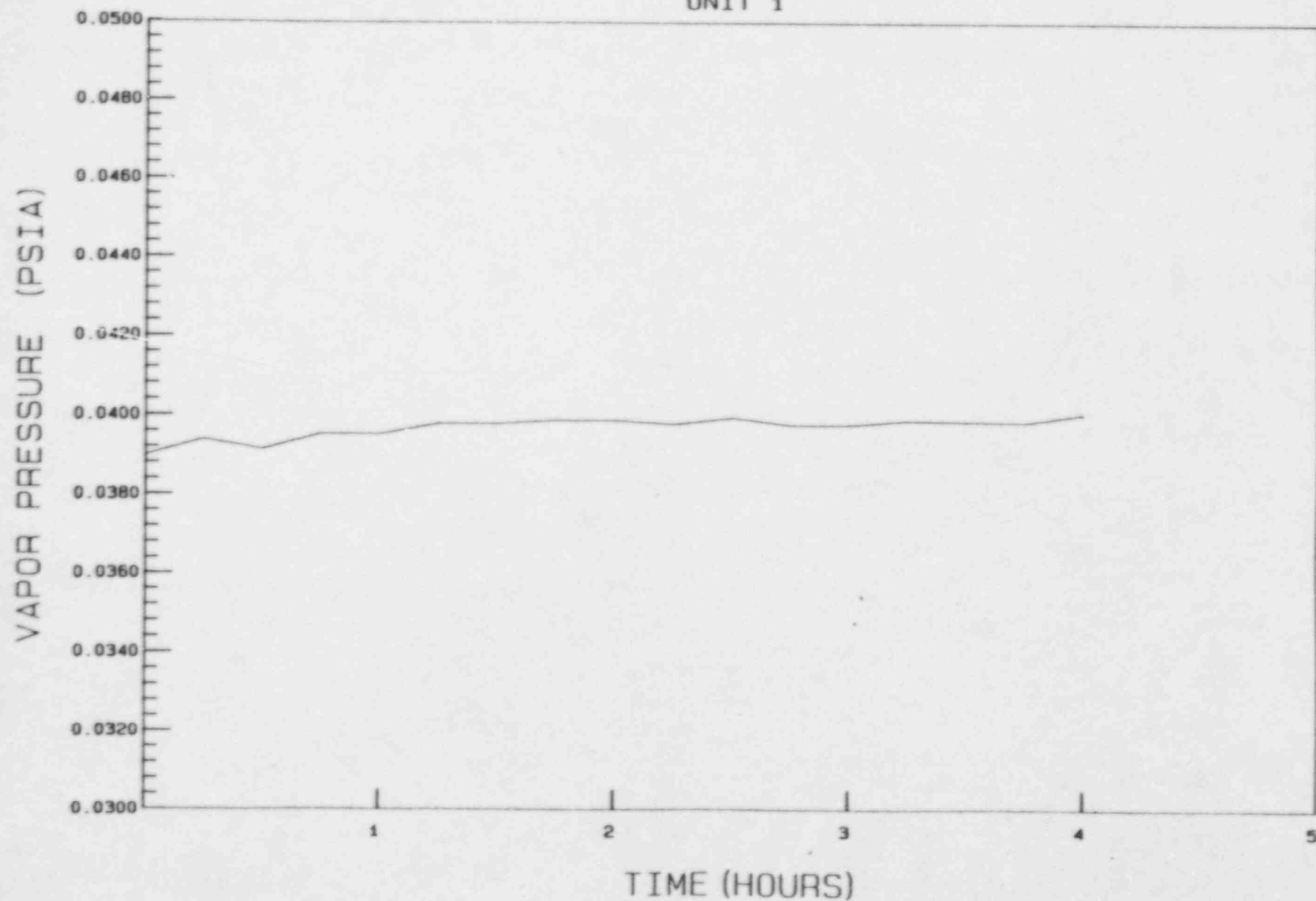


11/24/87 17:20:19 TO 11/24/87 21:20:14

ICE CONDENSER VAPOR PRESSURE

CATAWBA NUCLEAR STATION

UNIT 1



11/24/87 17: 20: 19 TO 11/24/87 21: 20: 14

B. Pressure Decay (24 Hour) Test Plots

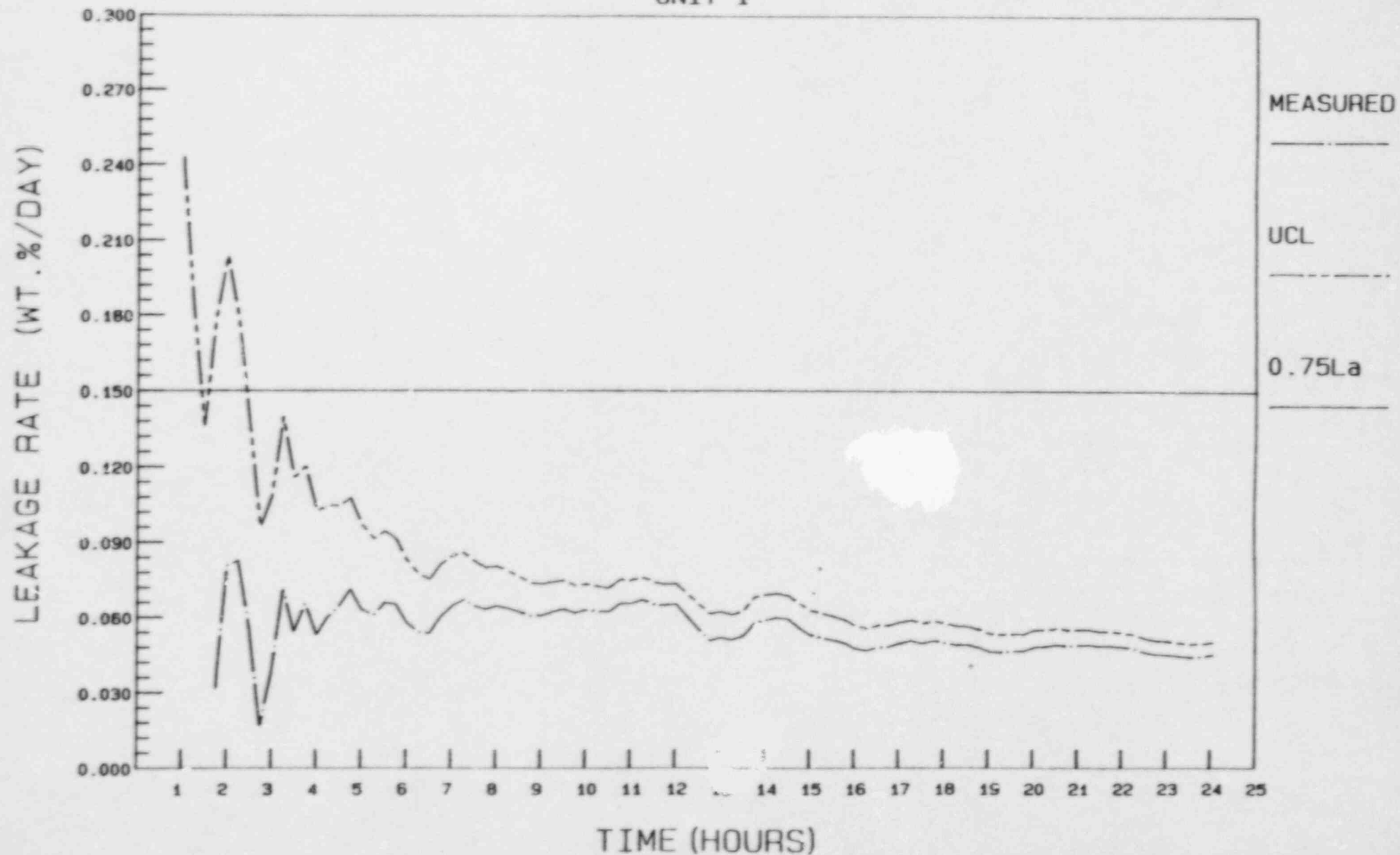
The attached plots show data accumulated during the 24 hour ILRT, beginning at 2120 hours on 11/24/87 and ending at 2122 hours on 11/25/87.

- Mass Point Leakage Rate and UCL
- Normalized Containment Mass
- Lower Containment Pressure
- Lower Containment Avg. Temp.
- Lower Containment Vapor Pressure
- Upper Containment Pressure
- Upper Containment Avg. Temp.
- Upper Containment Vapor Pressure
- Ice Condenser Pressure
- Ice Condenser Avg. Temp.
- Ice Condenser Vapor Pressure

MASS POINT LEAKAGE RATE AND UCL

CATAWBA NUCLEAR STATION

UNIT 1

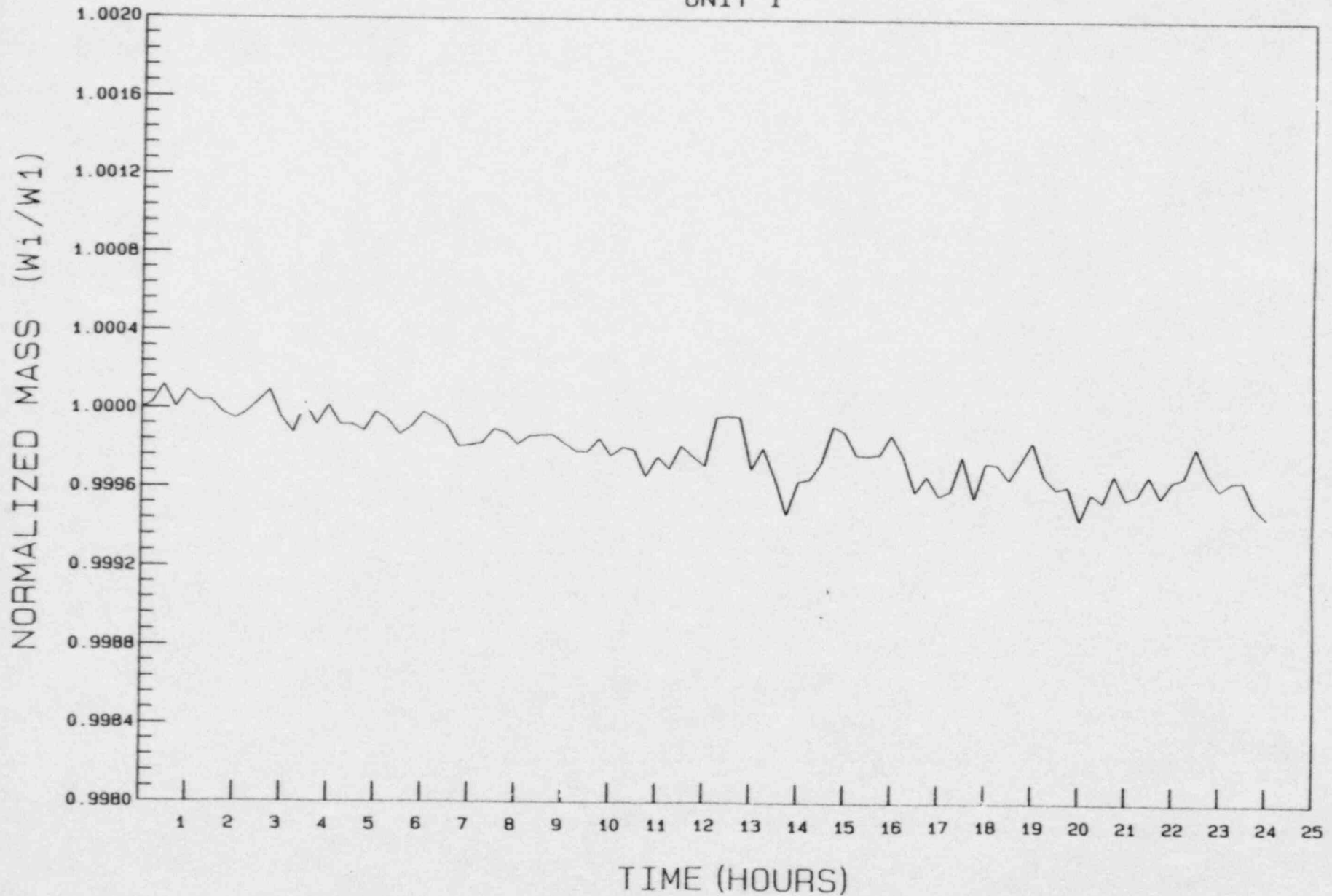


11/24/87 21:20:14 TO 11/25/87 21:22:16

NORMALIZED CONTAINMENT MASS

CATAWBA NUCLEAR STATION

UNIT 1

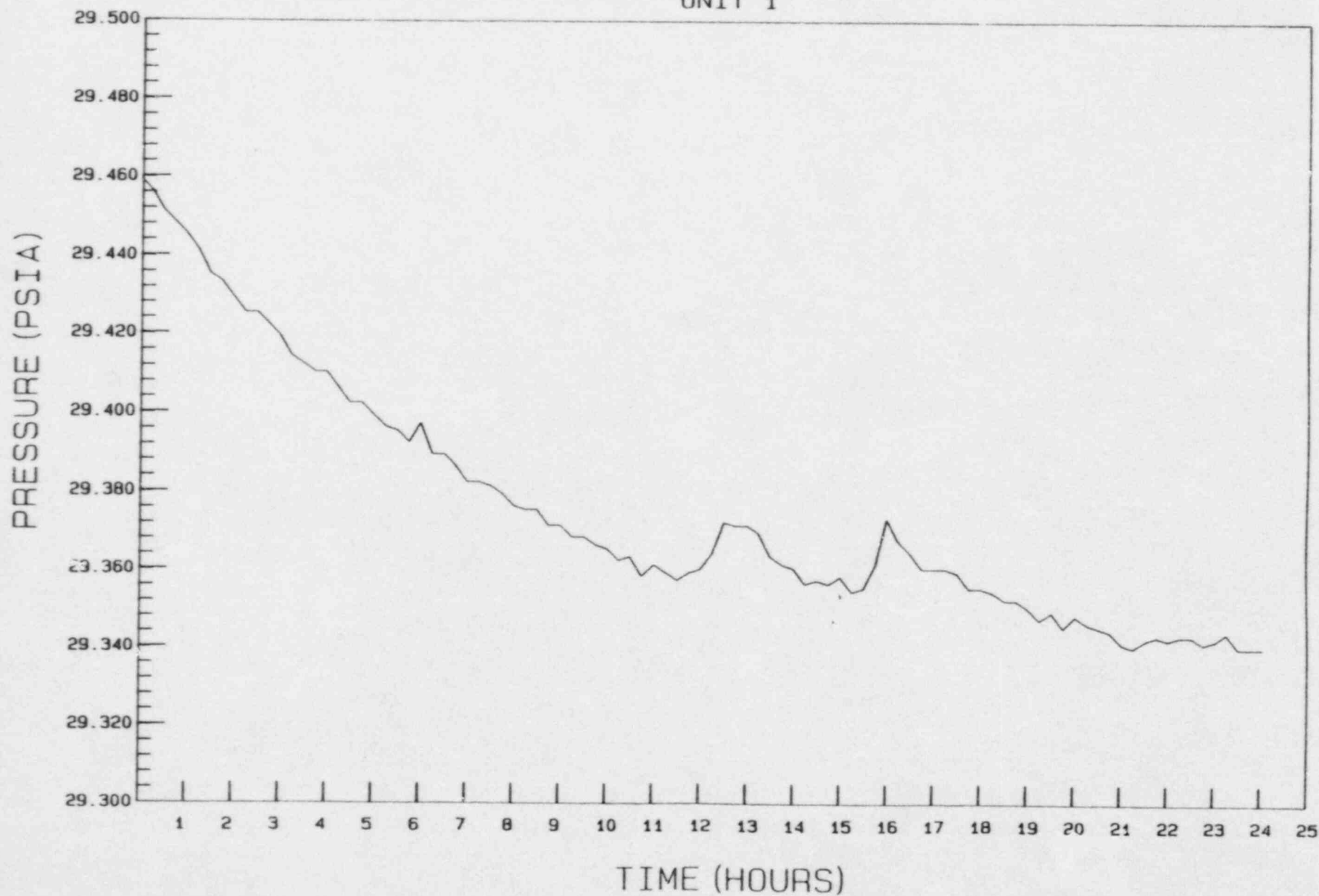


11/24/87 21: 20: 14 TO 11/25/87 21: 22: 16

LOWER CONTAINMENT PRESSURE

CATAWBA NUCLEAR STATION

UNIT 1

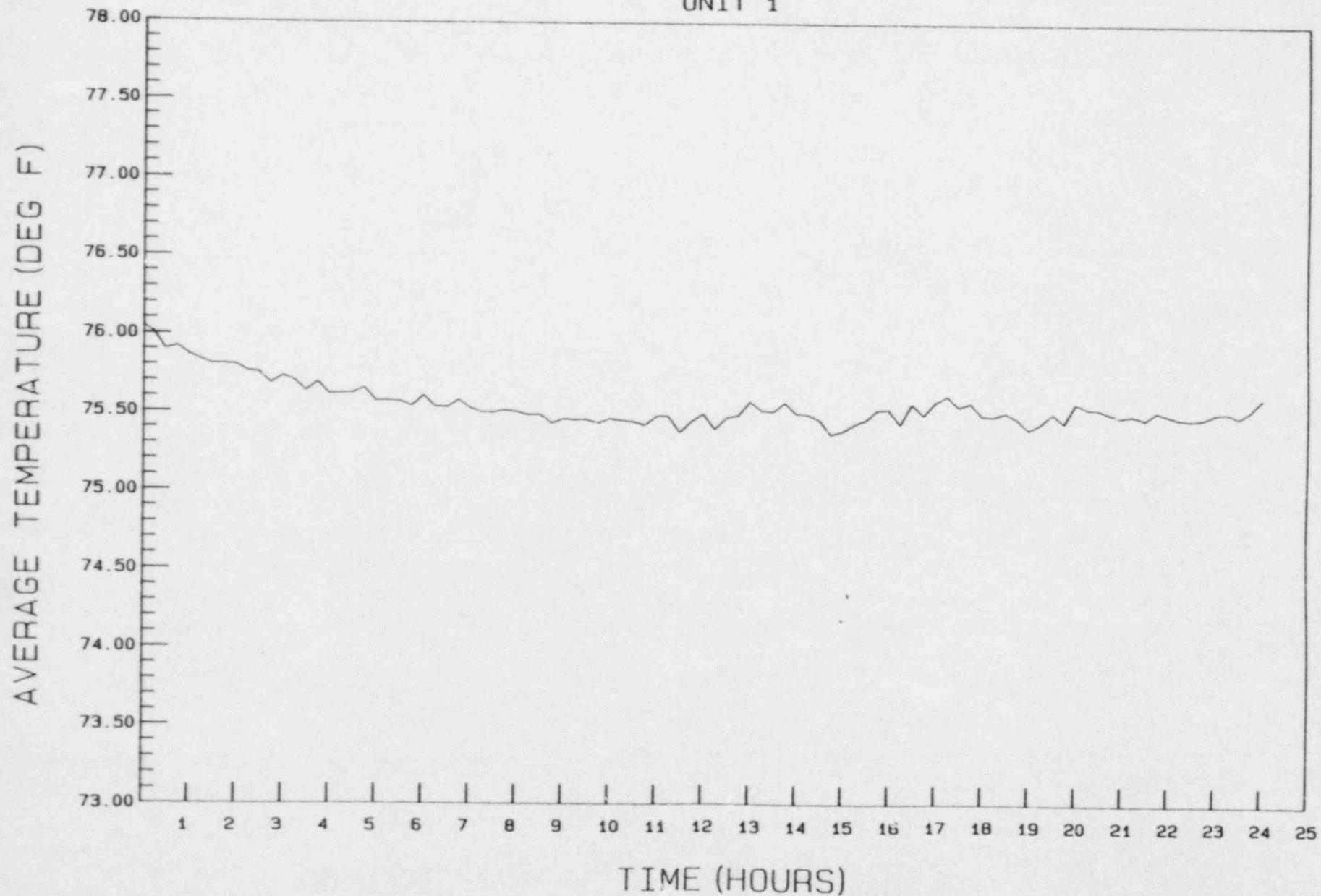


11/24/87 21:20:14 TO 11/25/87 21:22:16

LOWER CONTAINMENT AVG. TEMP.

CATAWBA NUCLEAR STATION

UNIT 1

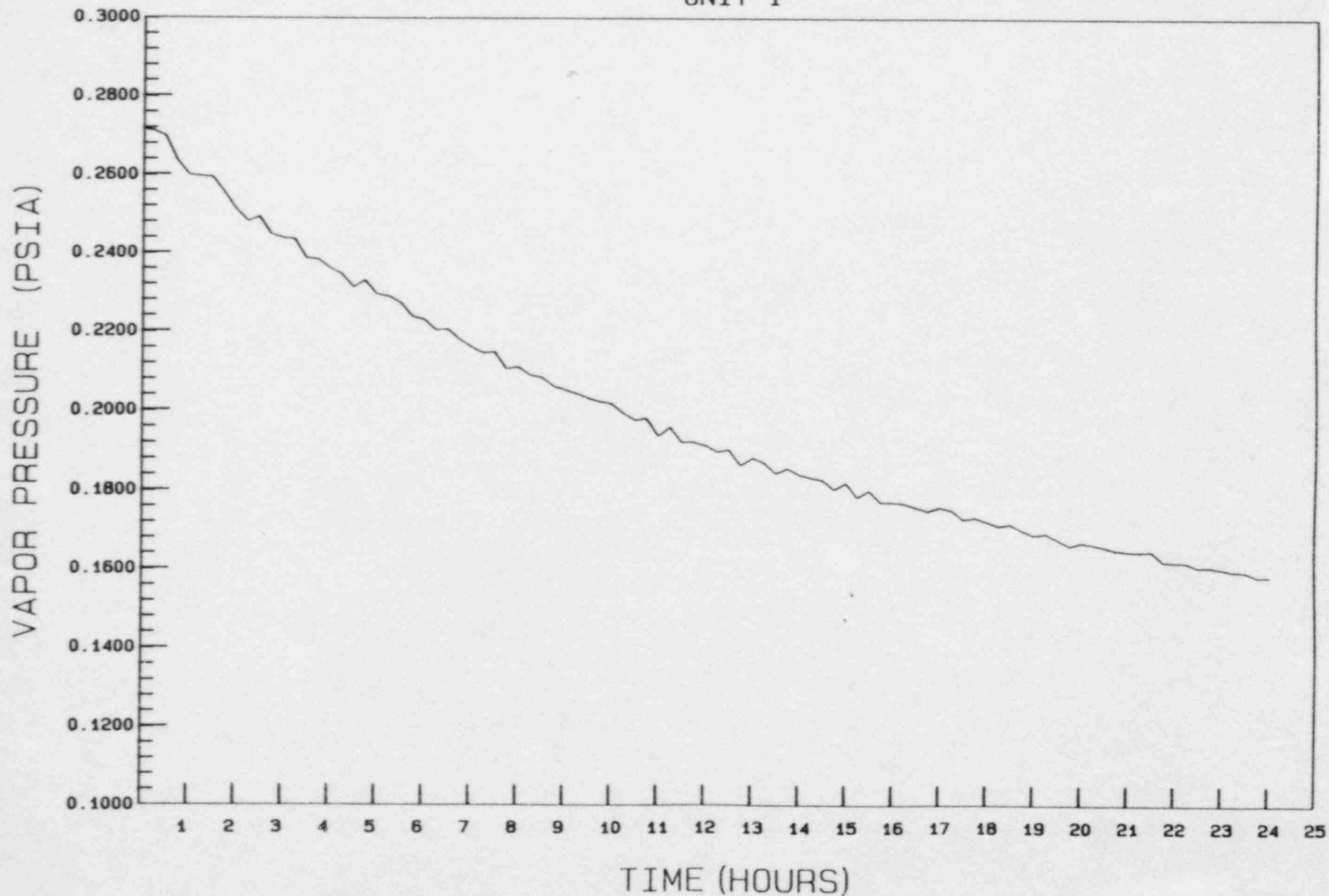


11/24/87 21: 20: 14 TO 11/25/87 21: 22: 16

LOWER CONTAINMENT VAPOR PRESSURE

CATAWBA NUCLEAR STATION

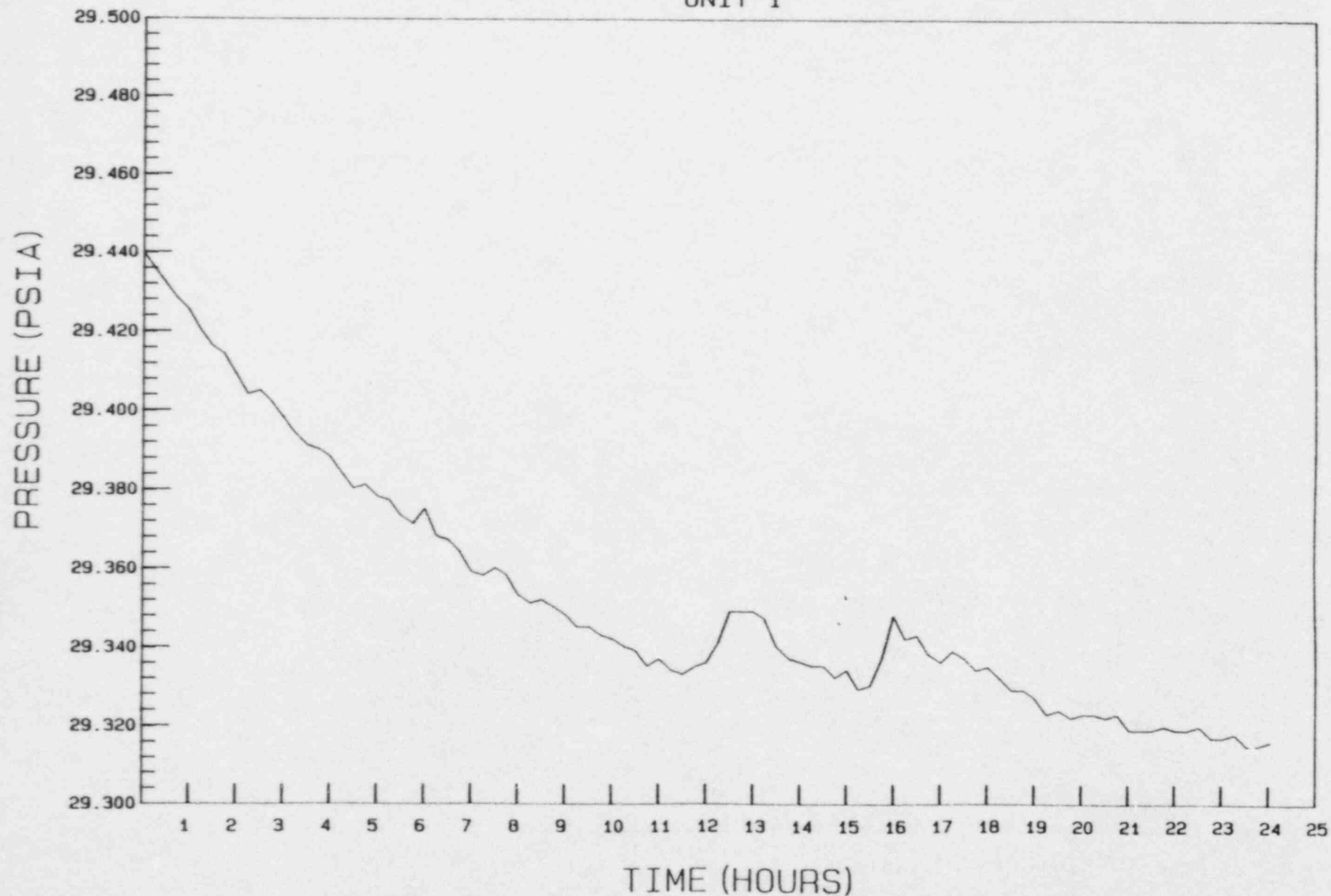
UNIT 1



UPPER CONTAINMENT PRESSURE

CATAWBA NUCLEAR STATION

UNIT 1

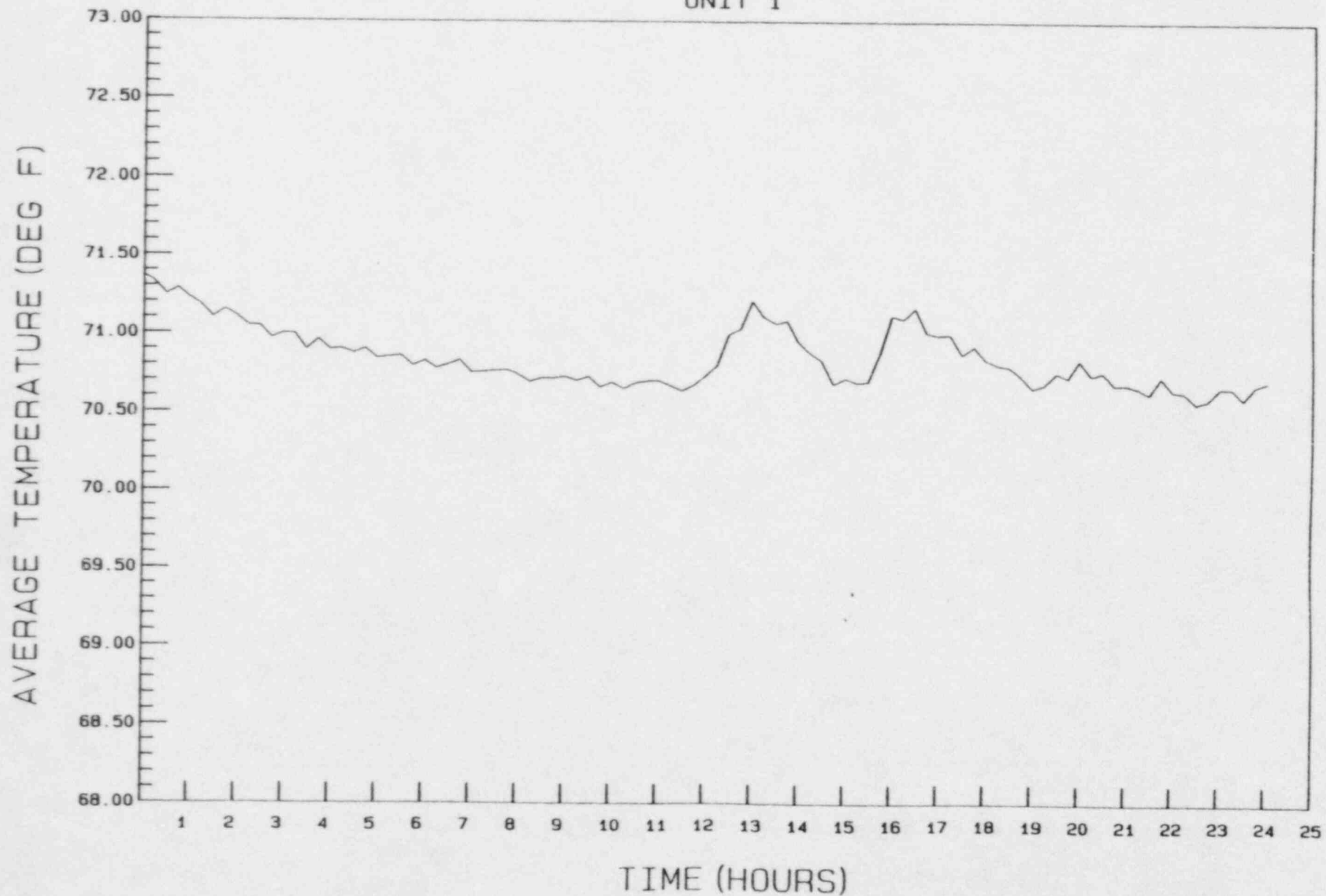


11/24/87 21:20:14 TO 11/25/87 21:22:16

UPPER CONTAINMENT AVG. TEMP.

CATAWBA NUCLEAR STATION

UNIT 1

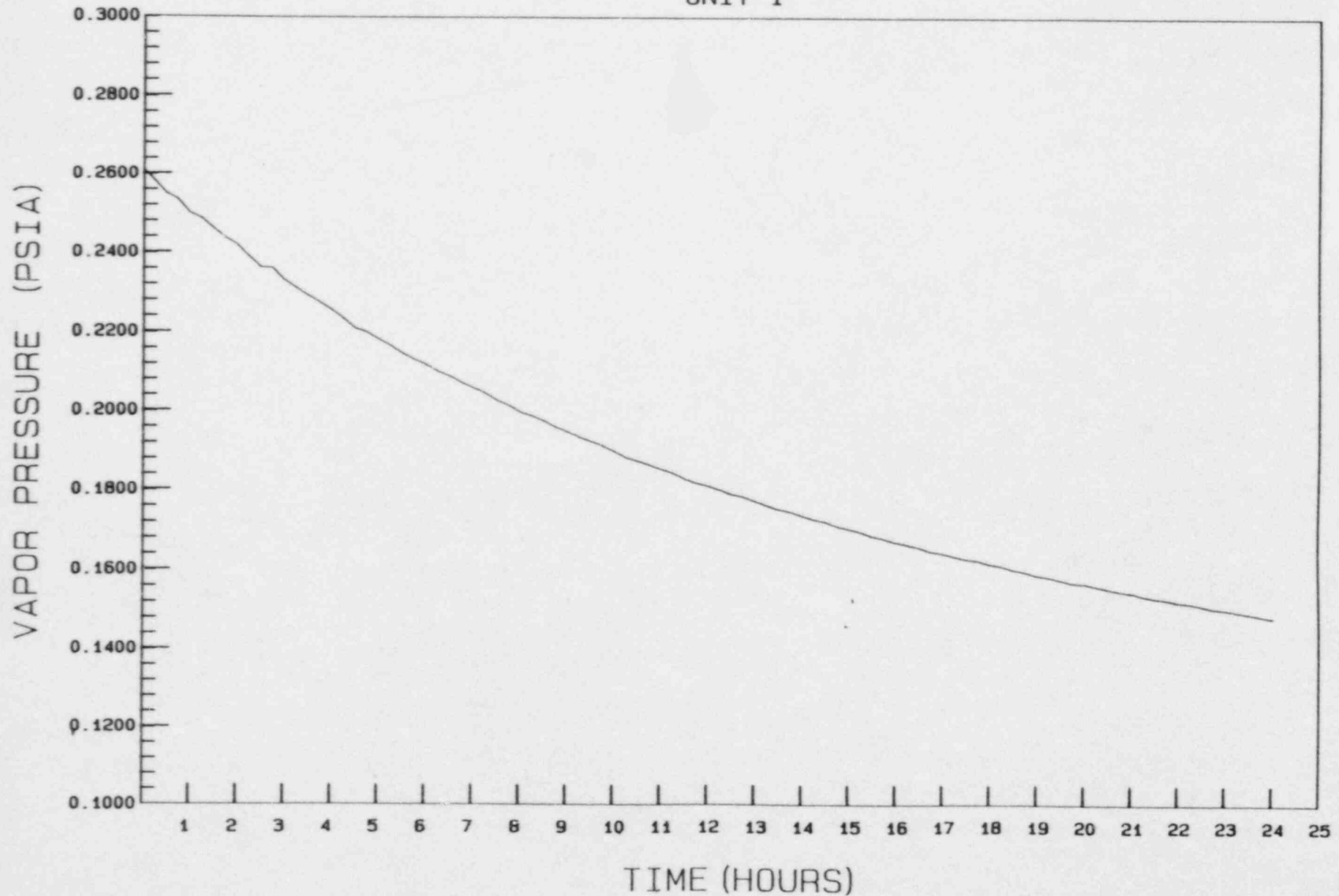


11/24/87 21:20:14 TO 11/25/87 21:22:16

UPPER CONTAINMENT VAPOR PRESSURE

CATAWBA NUCLEAR STATION

UNIT 1

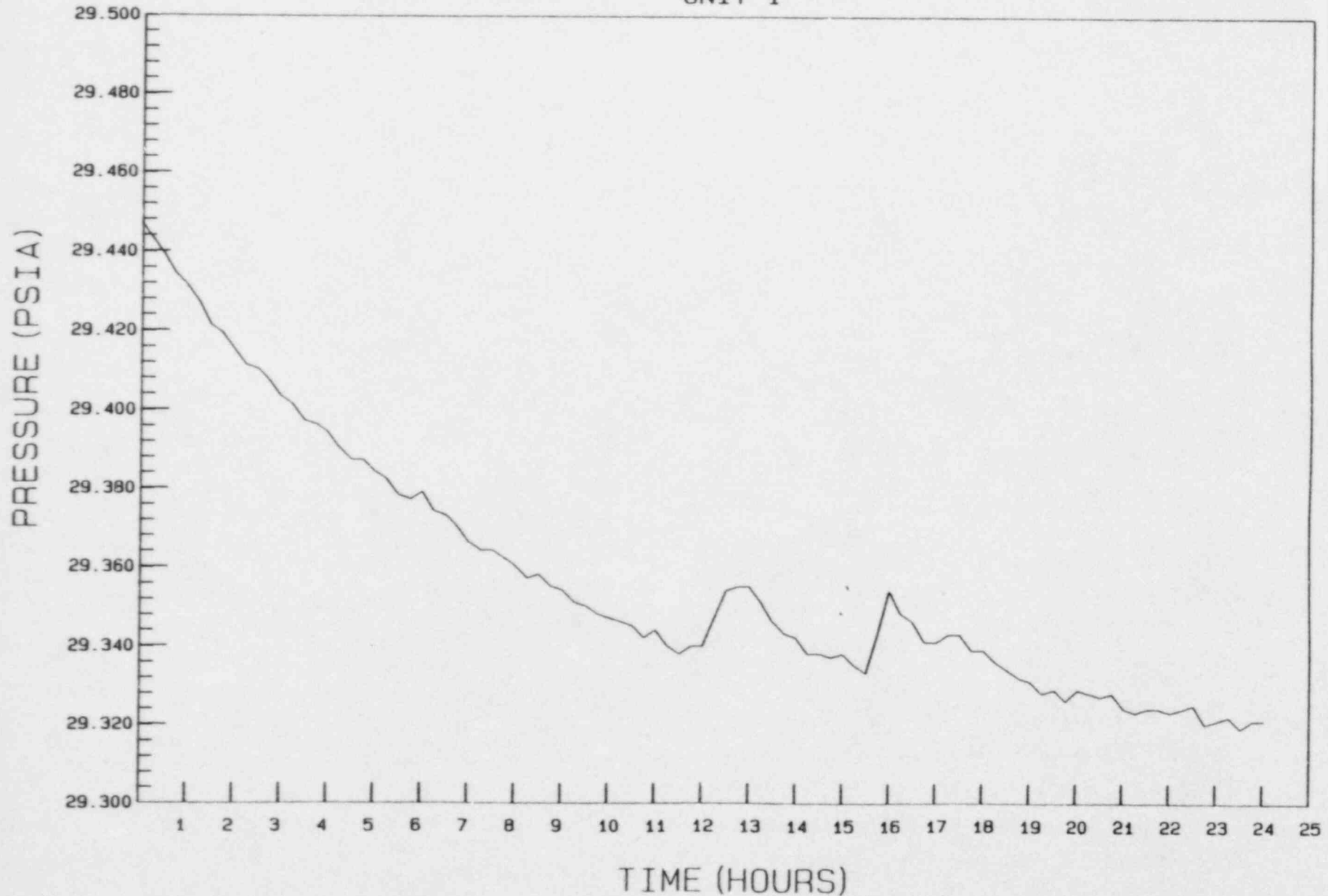


11/24/87 21: 20: 14 TO 11/25/87 21: 22: 16

ICE CONDENSER PRESSURE

CATAWBA NUCLEAR STATION

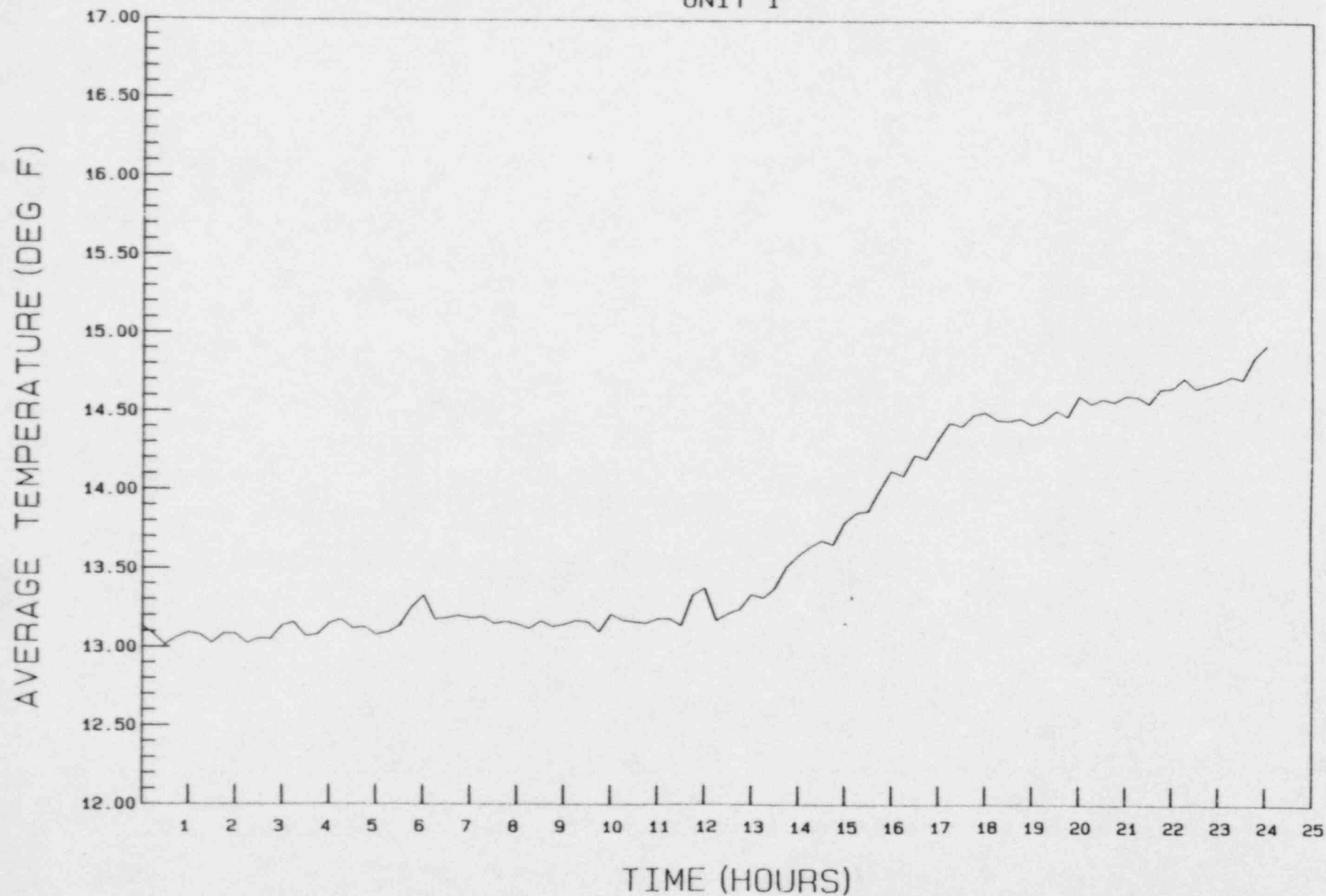
UNIT 1



ICE CONDENSER AVG. TEMP.

CATAWBA NUCLEAR STATION

UNIT 1

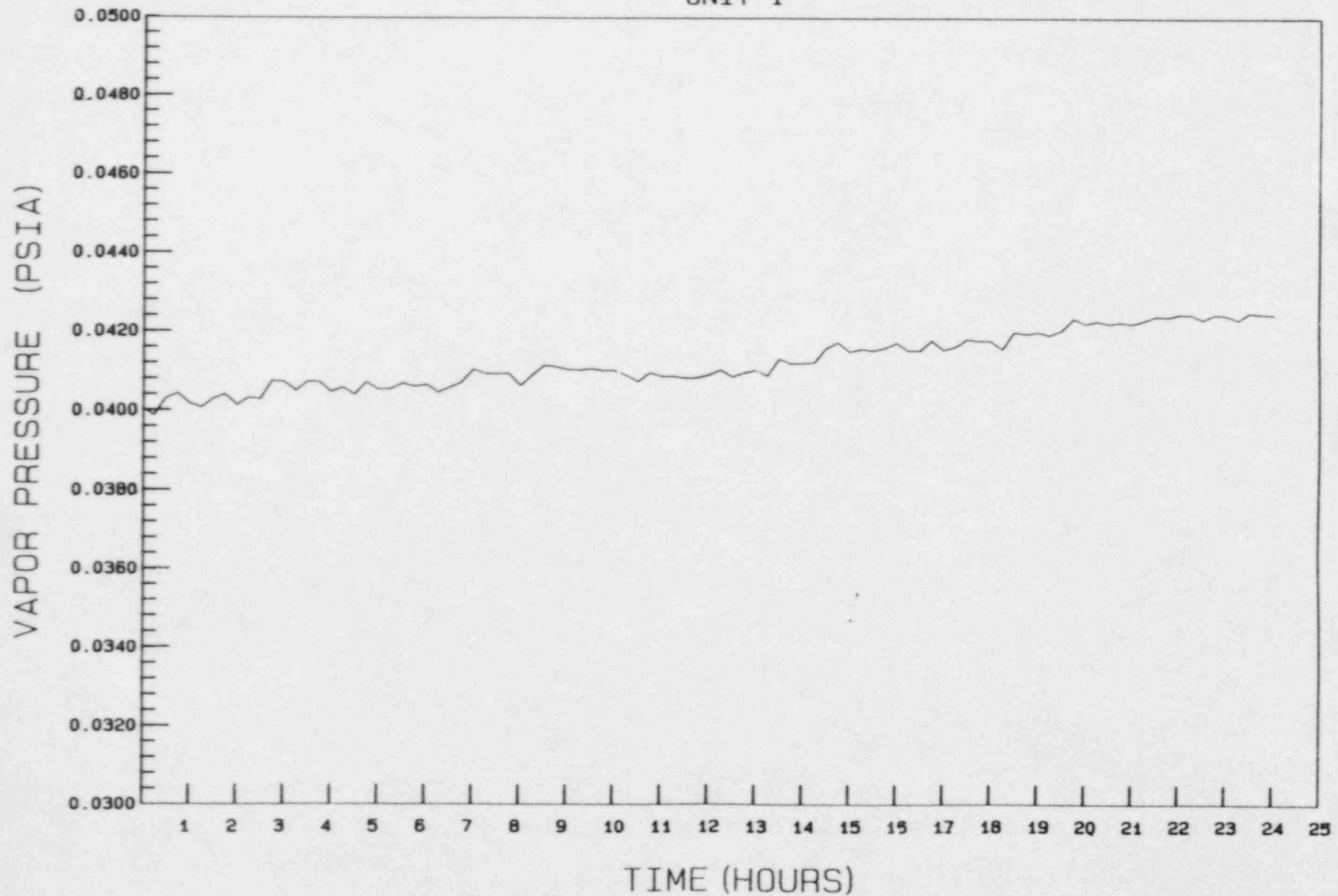


11/24/87 21: 20: 14 TO 11/25/87 21: 22: 16

ICE CONDENSER VAPOR PRESSURE

CATAWBA NUCLEAR STATION

UNIT 1



11/24/87 21:20:14 TO 11/25/87 21:22:16

C. Superimposed Leak Rate Test Plots

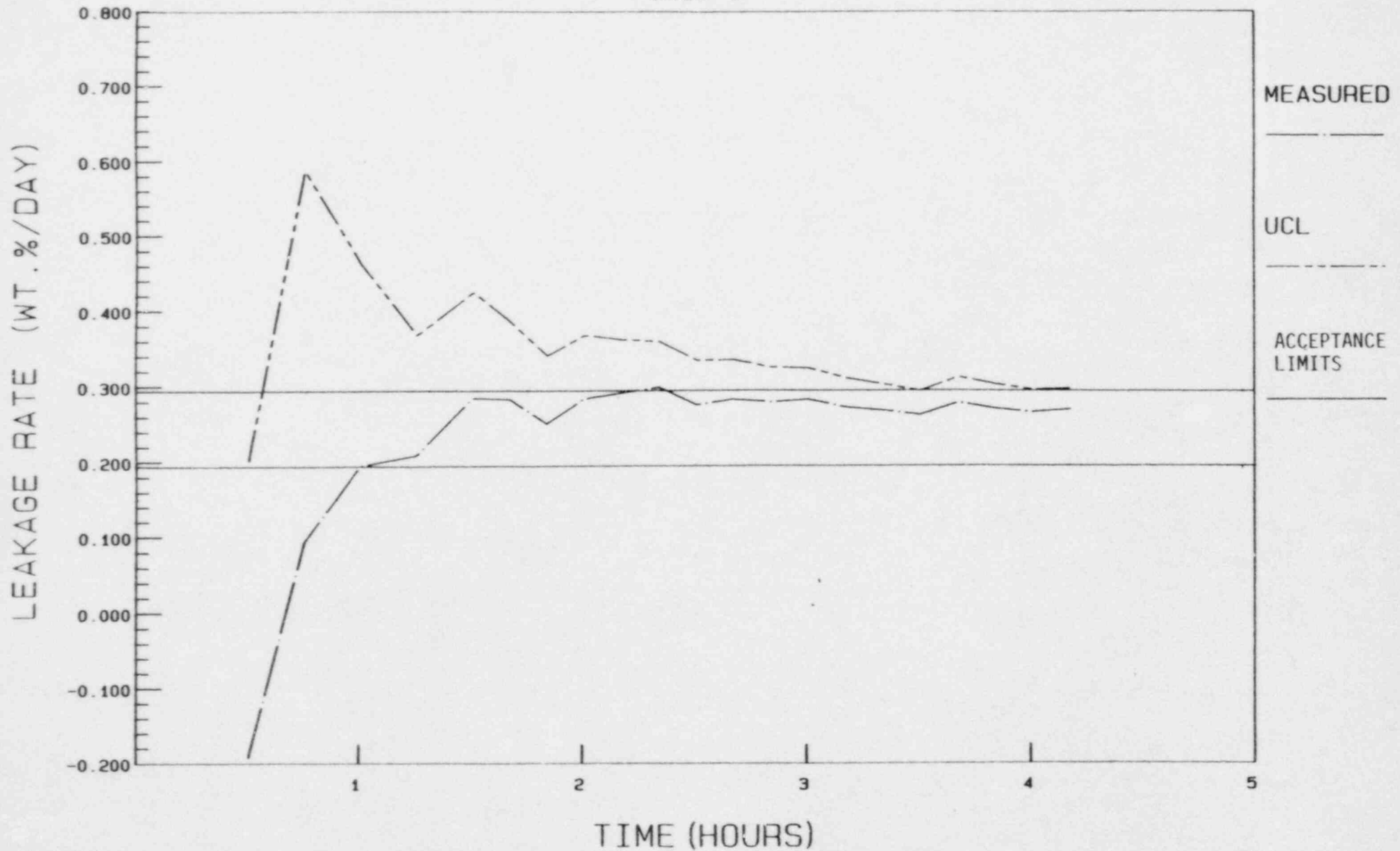
The attached plots show data accumulated during the verification test, beginning at 1125 hours and ending at 1535 hours on 11/26/87.

- Mass Point Leakage Rate and UCL
- Normalized Containment Mass

MASS POINT LEAKAGE RATE AND UCL

CATAWBA NUCLEAR STATION

UNIT 1

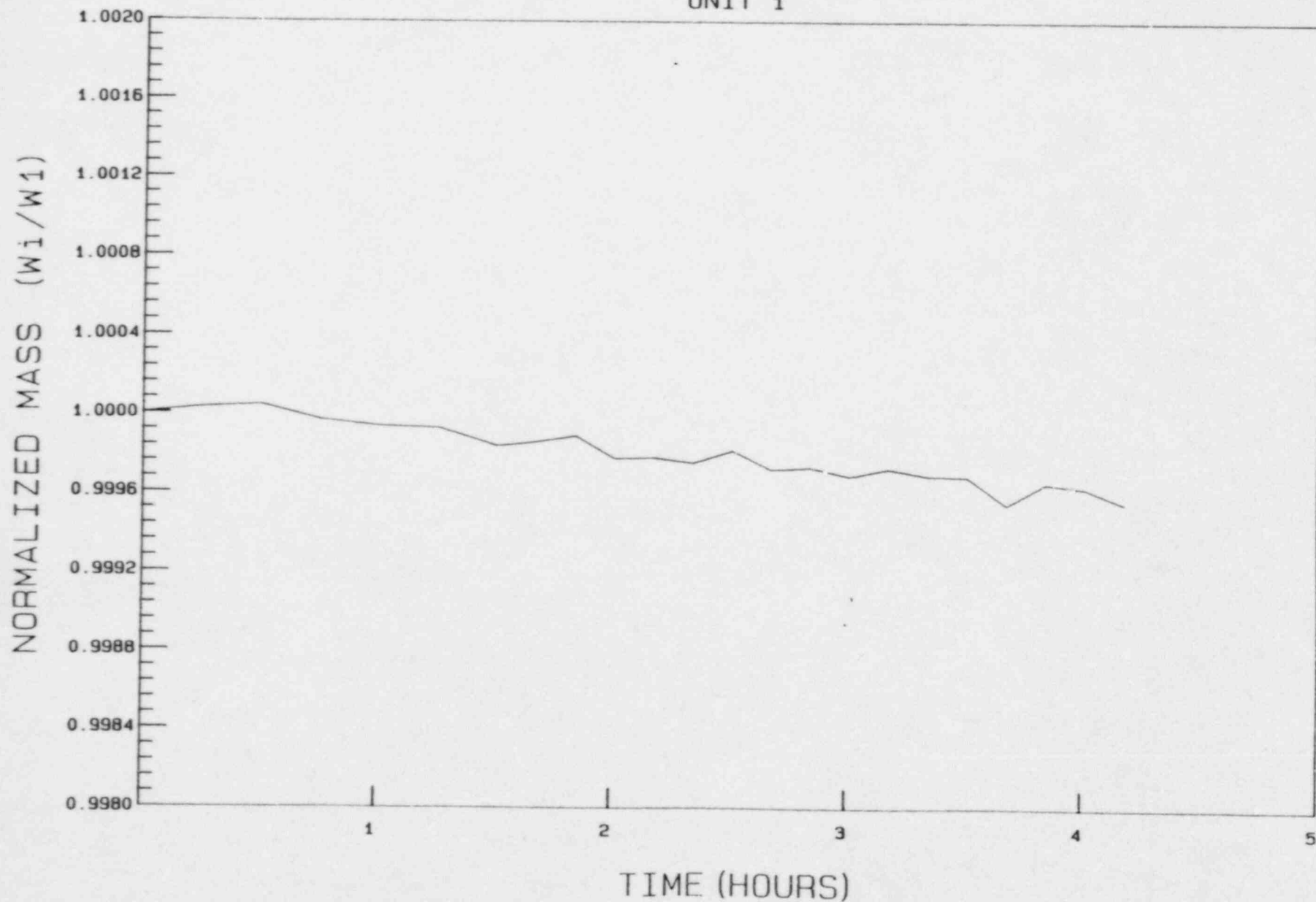


11/26/87 11: 25: 4 TO 11/26/87 15: 35: 52

NORMALIZED CONTAINMENT MASS

CATAWBA NUCLEAR STATION

UNIT 1



11/26/87 11: 25: 4 TO 11/26/87 15: 35: 52

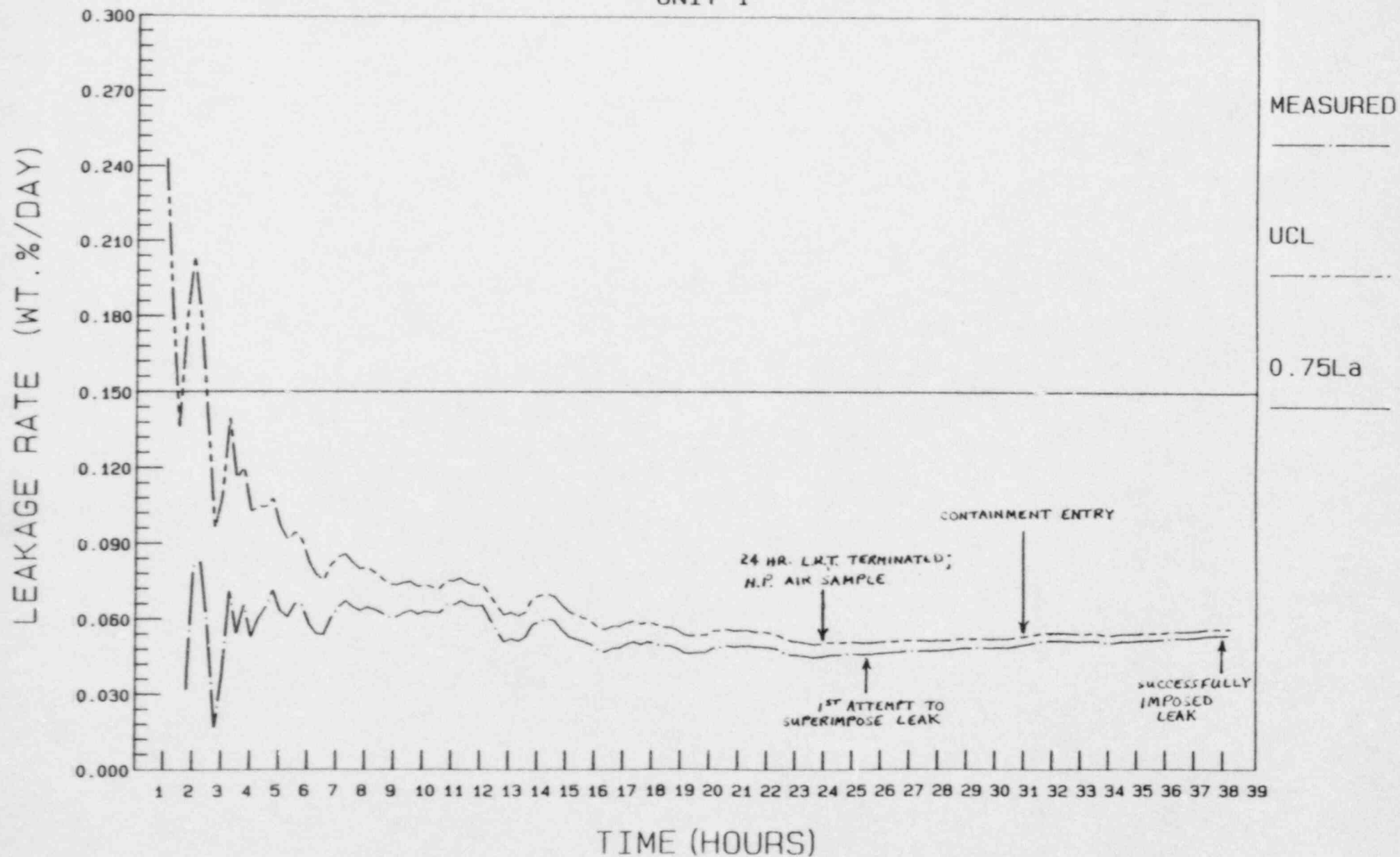
D. Miscellaneous Plots

The attached plots show: (1) Mass Point Leakage Rate and (2) Normalized Containment Mass from the beginning of the ILRT (Pressure Decay Test) to the beginning of the Superimposed Leak Rate Test, and (3) Upper Containment Pressure and (4) Ice Condenser Average Temperature from the start of pressurization to the end of depressurization.

MASS POINT LEAKAGE RATE AND UCL

CATAWBA NUCLEAR STATION

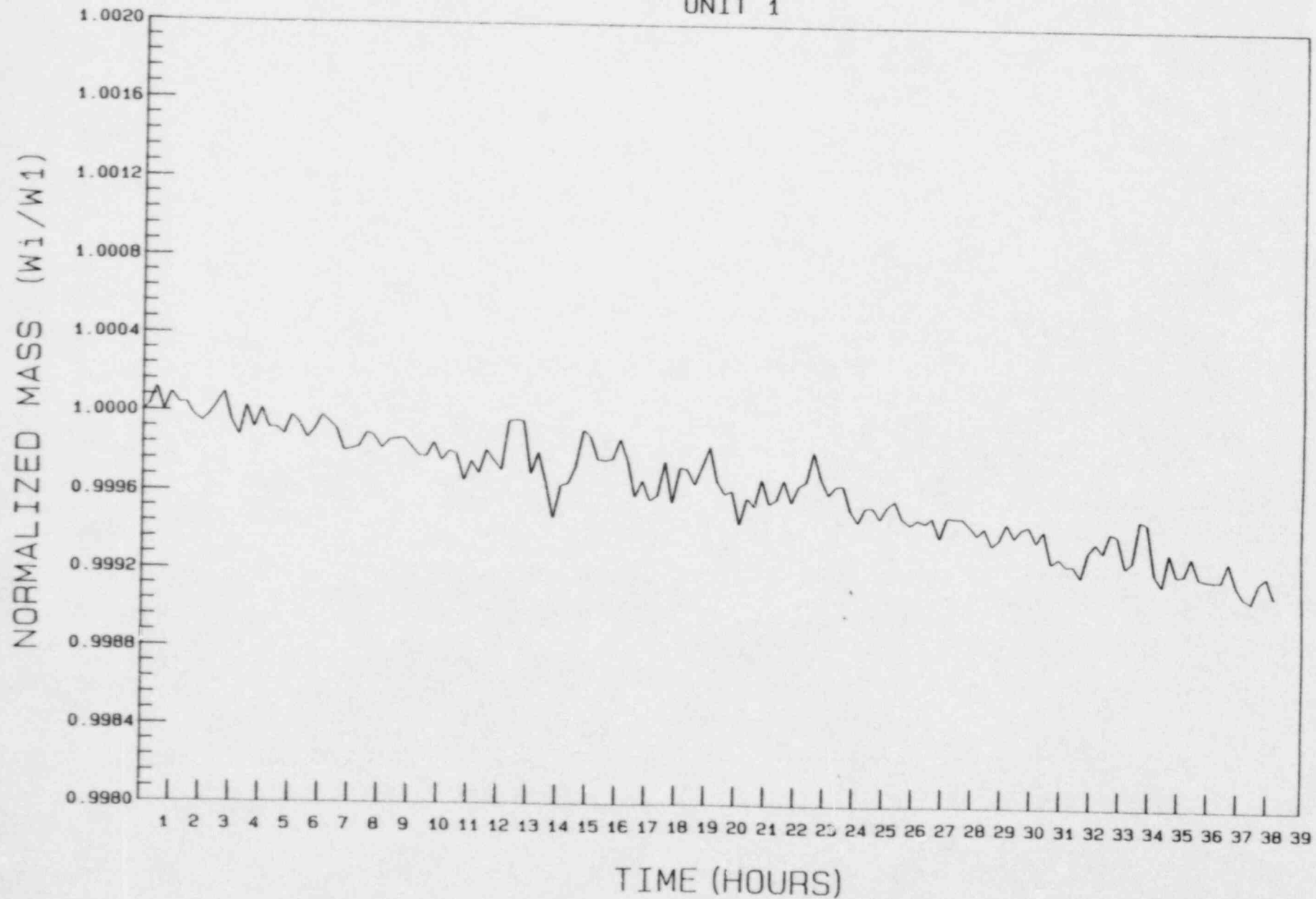
UNIT 1



NORMALIZED CONTAINMENT MASS

CATAWBA NUCLEAR STATION

UNIT 1

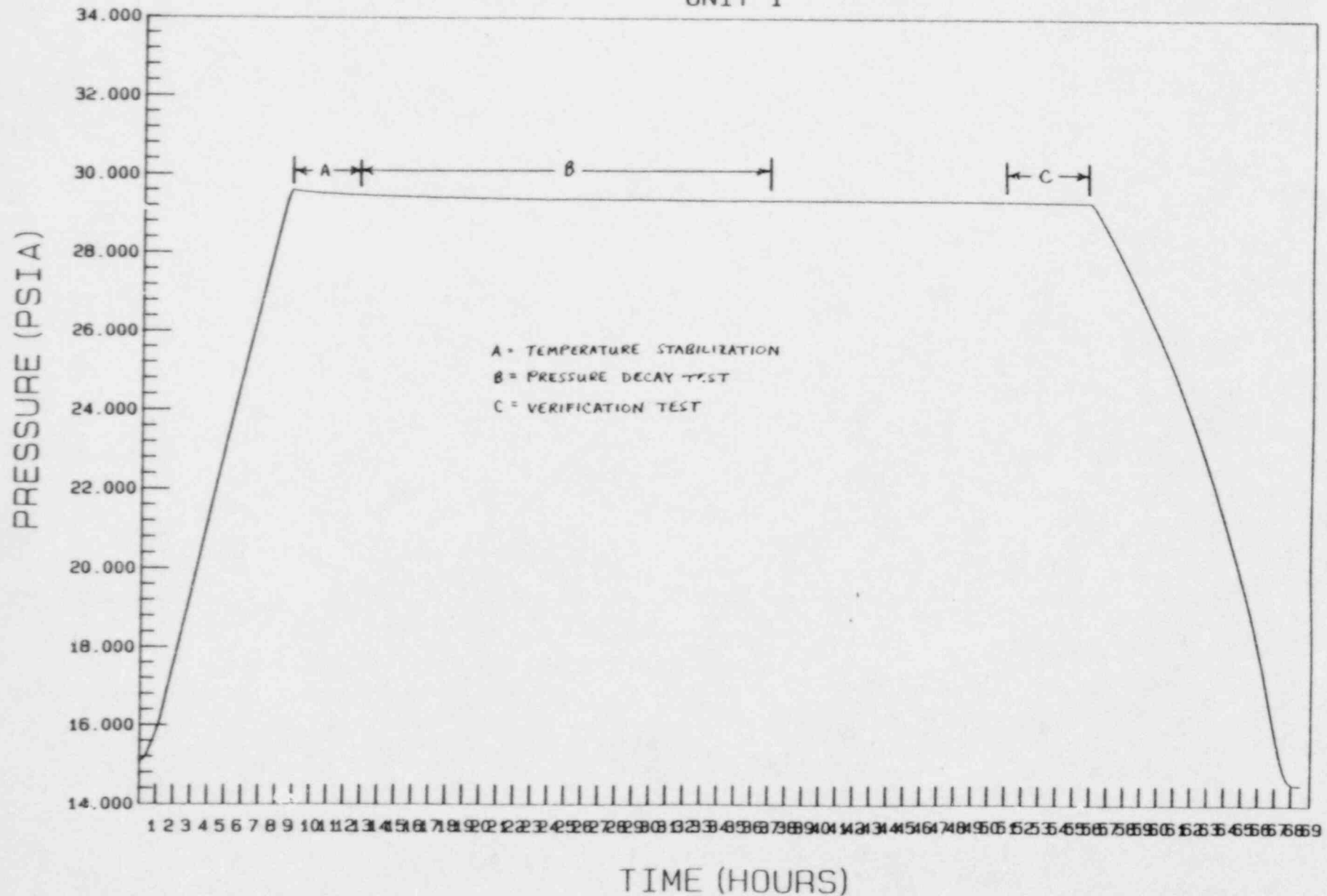


11/24/87 21: 20: 14 TO 11/26/87 11: 25: 4

UPPER CONTAINMENT PRESSURE

CATAWBA NUCLEAR STATION

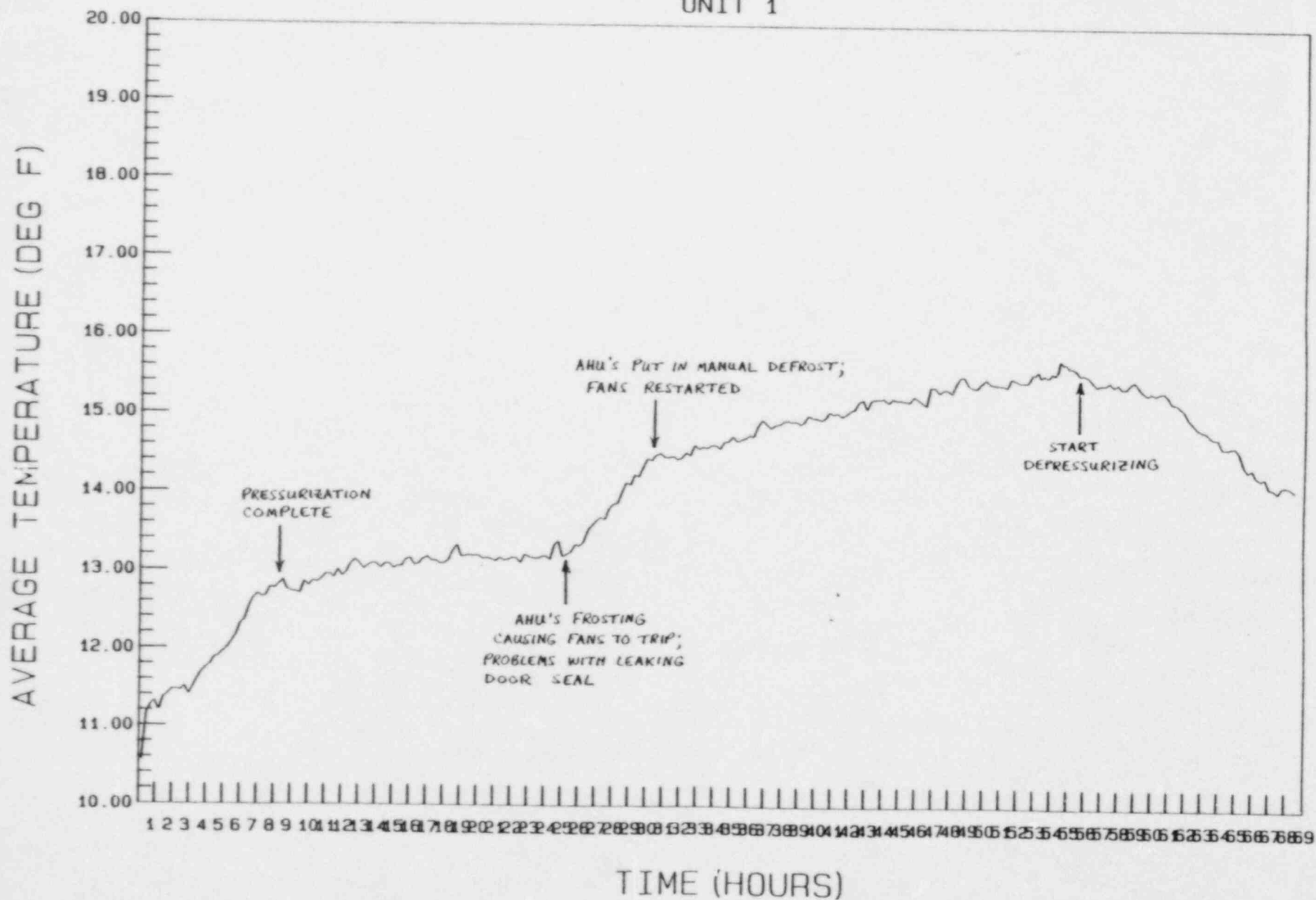
UNIT 1



ICE CONDENSER AVG. TEMP.

CATAWBA NUCLEAR STATION

UNIT 1



11/24/87 8:35:30 TO 11/27/87 5:1:9

V. APPENDICES

- A. Leak Rate Calculations Description
- B. Test Log of Significant Events
- C. RTD Locations
- D. Leakage Penalty Analysis
- E. Leakage Savings Analysis
- F. Local Leakage Rate Testing Conducted Since the Last ILRT
- G. Test Data

APPENDIX A

LEAK RATE CALCULATIONS DESCRIPTION

SYMBOLS AND DEFINITIONS

- A - Slope of least squares line
- B - Intercept of least squares line
- L_a - Maximum allowable leakage rate at calculated peak accident pressure as specified in the station's technical specifications, (wt. %/day)
- L_{am} - Estimate of leakage rate, derived from Mass Point least squares slope and intercept, expressed as a positive number, (wt. %/day)
- L_i - Measured leakage rate based on the difference between the initial mass at time t_1 and the mass at time t_i , (wt. %/day)
- LTT - Estimate of leakage rate, derived from the Total Time least squares slope and intercept, (wt. %/day)
- n - Number of (N_i, t_i) or (L_i, t_i) pairs of measurements
- N_i - Normalized mass of containment air at time t_i
- P - Total compartment absolute pressure in containment, (psia)
- P_v - Partial pressure of water vapor, (psia)
- R - Gas constant for air, 53.35 ft lbf/lbm °R
- S_A - Estimate of standard deviation of slope term A derived from least squares line
- T - Mean compartment absolute temperature of containment air, (°R)
- t_1 - elapsed time since first reading, (min)
- tt_1 - elapsed time since second reading, (min)
- $t_{.95}$ - 95th percentile of Students t distribution
- UCL - Upper Confidence Limit; a calculated value constructed from test data with the intention of placing an upper bound on the time leakage rate, (wt. %/day)
- V - Internal free volume of containment (assumed to remain constant for test duration), (ft³)
- W_i - Measured mass of containment air at time i
- i - subscript i indicates ith data point; i.e., (W_i, t_i) , $i = 1, 2, \dots, n$

1.0 RAW DATA CALCULATIONS

The raw data set consists of test time, air temperature readings in ohms, pressure readings in volts and dew point temperature readings in millivolts. Catawba and McGuire use 52 RTD's for temperature measurement, three Ruska's for pressure measurement and six sensors for dew point temperature measurement. Oconee uses 24 RTD's for temperature measurement, two Ruska's for pressure measurement and six sensors for dew point temperature measurement. All raw data values are converted to the appropriate units by equation 1.1.

$$Y = A + BX + CX^2 \quad (1.1)$$

where: Y = converted value (°F, psia)
 X = raw data value (ohms, V, mv)
 A, B, C = conversion constants

Note: For Pressure A & C = 0.0, B = 10.0.
 For Dew Point A, B & C are obtained from manuf. instrument specification sheet.
 For Temperature A, B & C are obtained from Standard's Lab calibration sheets.

The dew point temperature is substituted into either equation 1.2 or equation 1.3 to calculate the partial pressure of water vapor.

For $T > 32^\circ\text{F}$: (1.2)

$$\frac{P_v}{P_c} = \exp \left[\frac{1}{\theta} \frac{\sum_{n=1}^5 k_n (1 - \theta)^n}{1 + k_6 (1 - \theta) + k_7 (1 - \theta)^2} - \frac{(1 - \theta)}{k_8 (1 - \theta)^2 + k_9} \right]$$

where:

P_v = vapor press. (Pa)	$k_3 = -168.1706546$
(1 Pa = $1.45037738 \times 10^{-4}$ psi)	
$P_c = 22120.0$ kPa	$k_4 = 64.23285504$
$\Theta = T/T_c$	$k_5 = -118.9646225$
T = dew point temp. ($^{\circ}$ K)	$k_6 = 4.167117320$
[$^{\circ}$ K = $(5/9)(^{\circ}$ F - 32) + 273.15]	
$T_c = 647.3$ $^{\circ}$ K	$k_7 = 20.97506760$
$k_1 = -7.691234564$	$k_8 = 1 \times 10^9$
$k_2 = -26.08023696$	$k_9 = 6$

Reference:: ASME Steam Tables, Fifth Edition, Appendix 1, Section 5, Reduced Saturation Pressure, 1983.

For $T \leq 32$ $^{\circ}$ F :

(1.3)

$$\ln(P_v) = C_1/T + C_2 + C_3 \cdot T + C_4 \cdot T^2 + C_5 \cdot T^3 + C_6 \cdot T^4 + C_7 \cdot \ln(T)$$

where:

P_v = vapor press. (Pa)	$C_4 = 0.62215701 \times 10^{-6}$
(1 Pa = $1.45037738 \times 10^{-4}$ psi)	
T = dew point temp. ($^{\circ}$ K)	$C_5 = 0.20747825 \times 10^{-8}$
[$^{\circ}$ K = $(5/9)(^{\circ}$ F - 32) + 273.15]	
$C_1 = -5674.5359$	$C_6 = -0.9484024 \times 10^{-12}$
$C_2 = 6.3925247$	$C_7 = 4.1635019$
$C_3 = -0.9677843 \times 10^{-2}$	

Reference: ASHRAE Handbook 1981 Fundamentals, Chapter 4, page 2.

The average temperature for each compartment at time i is determined by equation 1.4.

$$T_i = \frac{1}{\sum_{j=n}^m \frac{X_j}{T_{ij}}} \quad (1.4)$$

where: T_i = average temperature for compartment at time i , ($^{\circ}\text{F}$)
 T_{ij} = temperature recorded by sensor j at time i , ($^{\circ}\text{F}$)
 X_j = volume fraction assigned to temp. sensor j
 n, m = lower and upper bound on temp. sensors in compartment

Reference: Draft Regulatory Guide MS 021-5, position 15.

The average partial pressure of water vapor for each compartment at time i is determined by equation 1.5.

$$Pv_i = \sum_{j=n}^m Pv_{ij} * X_j \quad (1.5)$$

where: Pv_i = average partial pressure of water vapor for compartment at time i , (psia)
 Pv_{ij} = water vapor pressure recorded by sensor j at time i , (psia)
 X_j = volume fraction corresponding to sensor j
 n, m = lower and upper bound on dewpoint sensors in compartment

The average absolute pressure for each compartment at time i is determined by equation 1.6.

$$P_i = \sum_{j=n}^m P_{ij} * X_j \quad (1.6)$$

where: P_i = average compartment absolute pressure at time i , (psia)
 P_{ij} = absolute pressure recorded by sensor j at time i , (psia)
 X_j = volume fraction corresponding to sensor j
 n, m = lower and upper bound on pressure sensors in each compartment

The mass of air in each compartment at time i is determined by the ideal gas law, equation 1.7.

$$W_{ik} = \frac{144 \cdot V \cdot X_k}{R} \left[\frac{(P_i - P_{v_i})}{T_i} \right] \quad (1.7)$$

where: W_{ik} = measured mass of compartment air at time i , (lbm)
 T_i = average compartment temperature at time i , ($^{\circ}R$; where $^{\circ}R = ^{\circ}F + 459.67$)
 P_i = average compartment absolute pressure at time i , (psia)
 P_{v_i} = average partial pressure of water vapor for compartment at time i , (psia)
 X_k = compartment building volume fraction,
 V^k = total containment vessel volume, (ft^3)
 R = gas constant for air, (53.35 ft lbf/lbm $^{\circ}R$)
 144 = conversion constant from in^2 to ft^2

The mass is calculated for each of three compartments (lower containment, upper containment and the ice condenser) at Catawba and McGuire Nuclear Stations. The mass of each of the three compartments is summed together, resulting in the total mass for the containment vessel. For Oconee Nuclear Station, having only one compartment, the containment mass is equal to the compartment mass.

A single total containment mass and a single time is assigned to each reading set number. The mass for each reading is normalized by dividing the mass corresponding to each reading by the mass corresponding to the first reading at time t_1 . Normalizing the containment masses for each reading improves the precision of the leakage rate calculations by reducing the truncation errors associated with the large numbers generated by the least squares fit regression calculations.

The normalization equation is given by 1.8.

$$N_i = \frac{W_i}{W_1} \quad (1.8)$$

where: N_i = total normalized containment mass at time i
 W_i = total containment mass at time i
 W_1 = total containment mass at time 1

2.0 Mass Point Leakage Rate Calculation

This analysis method consists of determining the mass of air in containment, absolutely, utilizing the ideal gas law, at each time point during the test and using a straight-line least squares analysis to estimate the leakage rate. The estimate of the leakage rate is a function of both the slope and the intercept of the regression line computed by equations 2.1 and 2.2 respectively.

$$A = \frac{n(\sum t_i N_i) - (\sum N_i)(\sum t_i)}{n(\sum t_i^2) - (\sum t_i)^2} \quad (2.1)$$

$$B = \frac{(\sum N_i)(\sum t_i^2) - (\sum t_i N_i)(\sum t_i)}{n(\sum t_i^2) - (\sum t_i)^2} \quad (2.2)$$

where: A = slope of least squares line
 B = intercept of least squares line
 t_i = elapsed time since first reading, (min)
 N_i = normalized mass of reading at t_i ($N_i = W_i/W_1$)
 n = number of points (N_i, t_i pairs)

Note: Each t_i is the elapsed time between the clock time at which the first test reading is taken and the clock time at which the i th reading is taken. Thus, $t_1 = 0$ in all test situations, t_2 is the elapsed time before the next reading, and so on.

The measured leakage rate is expressed as the ratio of the rate of change of mass to the mass in containment at time $t_1 = 0$. Since values of t_1 are expressed in units of minutes, the mass point leakage rate is expressed as a positive number by computing equation 2.3.

$$L_{am} = -144,000.0 \cdot (A/B) \quad (2.3)$$

where: L_{am} = estimate of leakage rate, derived from least squares slope and intercept, (wt. %/day)
 A = the slope of the least squares line
 B = the intercept of the least squares line
 $-144,000 = (60 \text{ min/hr})(24 \text{ hrs/day})(100 \%)$

The standard deviation of the slope, S_A , is given by 2.4.

$$S_A = \left[\left(\frac{1}{n-2} \right) \left(\frac{n(\sum N_1^2) - (\sum N_1)^2}{n(\sum t_1^2) - (\sum t_1)^2} - A^2 \right) \right]^{1/2} \quad (2.4)$$

where: S_A = standard deviation of the slope A
 A = slope of the least squares line
 N_1 = normalized mass of reading at t_1 , ($N_1 = W_1/W_1$)
 t_1 = elapsed time since first reading, (min)
 n = number of points (N_1, t_1 pairs)

The following approximation is given for the 95th percentile of the Student's t distribution, $t_{.95}$:

For $d_F \geq 3$

$$t_{.95} = \frac{1.6449(n-2)^2 + 3.5283(n-2) + 0.85602}{(n-2)^2 + 1.2209(n-2) - 1.5163} \quad (2.5)$$

where: $t_{.95}$ = the 95th percentile of the Student's t distribution
 $n-2$ = degrees of freedom, d_F , where n = the number of (N_1, t_1 pairs)

Reference: ANSI 56.8-1981, Appendix B, footnote 17, p 23.

The ratio S_B/B is small when compared with the ratio S_A/B ; therefore, an approximate upper confidence limit of the 95 percent confidence level on the true leakage rate is provided by equation 2.6.

$$UCL = L_{am} + 144000.0(t_{.95})(S_A/B) \quad (2.6)$$

where: UCL = approximate 95 percent upper confidence level on the true leakage.
 L_{am} = estimate of leakage rate, derived from least squares slope and intercept, (wt. %/day)
 $t_{.95}$ = the 95th percentile of Student's t distribution
 S_A = standard deviation of the slope A
 B = the intercept of the least squares line

3.0 Total Time Leakage Rate Calculation

The Total Time method calculates a series of leakage rates based on the starting mass point and the most recent mass point (i.e. it calculates a leakage rate between data points 1 & 2; then between 1 & 3; and so on). Each successive leakage calculation is based upon a longer period of time. The overall leakage rate in weight percent per day at any given time is determined by applying linear regression analyses to the leakage rates at each data point.

The leak rate corresponding to each data point is determined from equation 3.1.

$$L_i = \frac{144,000}{t_i} (1 - N_i) \quad (3.1)$$

where: L_i = measured leakage rate based on the difference between the initial mass at time t_1 and the mass at time t_i (Note: the normalized mass at at time $t_1=1$), (wt. %/day)
 N_i = normalized mass at time t_i ($N_i = W_i/W_1$)
 t_i = elapsed time since first reading, (min)
 i = 2 to n; where n = number of (N_i, t_i pairs)

Plotting the measured leakage rate (L_i) on the y axis and the total time (tt_i) on the x axis, the following regression equations are used to find the slope and intercept:

$$A = \frac{n(\sum tt_i L_i) - (\sum L_i)(\sum tt_i)}{n(\sum tt_i^2) - (\sum tt_i)^2} \quad (3.2)$$

$$B = \frac{(\sum L_i)(\sum tt_i^2) - (\sum tt_i L_i)(\sum tt_i)}{n(\sum tt_i^2) - (\sum tt_i)^2} \quad (3.3)$$

where: A = slope of least squares line
 B = intercept of least squares line
 tt_i = elapsed time since second reading, (min)
 L_i = measured leakage rate based on the difference between the initial mass at time t_1 and the mass at time t_i , (wt. %/day)
 n = number of points (L_i , tt_i pairs)
 i = 2 to n+1

Note: Each tt_i is the elapsed time between the clock time at which the second test reading is taken and the clock time at which the i th reading is taken. Thus, $tt_2 = 0$ in all test situations, tt_3 is the elapsed time before the next reading, and so on.

The Total Time leakage rate at some specific time, t_i , is calculated from the regression line equation for the Least Squares "best fit" straight line given by equation 3.4.

$$LTT = A*tt_i + B \quad (3.4)$$

where: LTT = total time leakage rate at time t_i , (wt. %/day)
 A = slope of the least squares line
 B = the intercept of the least squares line
 tt_i = elapsed time since second reading, (min)

Note: The intercept of the least squares line, B, corresponds to the clock time for reading number two; therefore, the Total Time Leakage rate can only be calculated for reading numbers 3 to n.

The standard deviation of the slope, S_A , is calculated from either equation 3.5 or 3.6.

For $t_{n+1} < 24$ hours:

(3.5)

$$S_A = \left[\frac{EL_i^2 - BEL_i - AEL_i tt_i}{n - 2} \left[1 + 1/n + n \frac{(tt_{n+1} - \sum tt_i/n)^2}{n \sum tt_i^2 - (\sum tt_i)^2} \right] \right]^{1/2}$$

For $t_{n+1} > 24$ hours:

(3.6)

$$S_A = \left[\frac{EL_i^2 - BEL_i - AEL_i tt_i}{n - 2} \left[1/n + n \frac{(tt_{n+1} - \sum tt_i/n)^2}{n \sum tt_i^2 - (\sum tt_i)^2} \right] \right]^{1/2}$$

where: S_A = standard deviation of the slope A at time t_n
 L_i = measured leakage rate based on the difference between the initial mass at time t_1 and the mass at time t_i , (wt. %/day)
 A = slope of the least squares line
 B = intercept of the least squares line
 tt_i = elapsed time since second reading, (min)
 n = number of points (L_i, tt_i pairs)
 i = 2 to $n+1$

The Total Time method utilizes a 97.5% Student's t distribution for a test duration less than 24 hours and a 95% Student's t distribution for a test duration greater than or equal to 24 hours. The approximation given by equation 3.7 is used for the 97.5% Student's t distribution. Equation 2.5 is used for the 95% Student's t distribution.

For $t_{n+1} < 24$ hours:

$$t_{.975} = 1.95996 + \frac{2.37226}{(n-2)} + \frac{2.82250}{(n-2)^2} \quad (3.7)$$

where: $t_{.975}$ = the 97.5 percentile of the Student's t distribution
 $n-2$ = degrees of freedom, where n = the number of (L_i, tt_i pairs)

The approximate upper confidence limit on the Total Time leakage rate is given by equation 3.8.

$$UCL = LTT + t_{\star} S_A \quad (3.8)$$

where: UCL = approximate 95 or 97.5 percent upper confidence level on the Total Time leakage rate, (wt. %/day)

LTT = Total Time leakage rate, (wt. %/day)

t_{\star} = the 95 or 97.5 percentile of the Student's t distribution at time t_n

S_A = standard deviation of the slope A at time t_n

APPENDIX B

TEST LOG OF SIGNIFICANT EVENTS

<u>Date, Time</u>	<u>Comments</u>
11/16/87	Containment Structural Integrity Visual Inspection started by Design Engineering personnel.
11/20/87	Containment Structural Integrity Visual Inspection completed.
11/22/87 (2045)	I&E personnel cannot place both trains of SSPS in "Test" without dropping out Source Range Reactor Trip Block. Procedure change being written to place jumpers to avoid this situation.
11/23/87 (0300)	Portable compressor installed in containment, but not connected to Ice Condenser equipment access door seal, which is leaking excessively.
11/23/87 (0315)	Venting of Nitrogen from Cold Leg Accumulator Tanks proceeding slowly.
11/23/87 (1400)	Another portable electric air compressor is being purchased to supply air to the leaking seal on the Ice Condenser equipment access door. Also, alternate power supplies are being pursued for the portable compressors to prevent the breakers from tripping, which would cause loss of power to the dewpoint sensors in Upper Containment.
11/24/87 (0430)	Operations completing valve alignments. Cold Leg Accumulator Tanks almost depressurized.
11/24/87 (0830)	Containment Personnel Air Lock doors closed.
11/24/87 (0900)	Began pressurizing containment.
11/24/87 (0930)	Pressurization rate is approximately 1.0 psi/hour. This is too slow.
11/24/87 (1000)	Found controller for Instrument Air throttle valve to containment not working properly in Auto. Took valve to Manual and opened wide open. Instrument Air System header pressure is approximately 110 psig.
11/24/87 (1030)	Pressurization rate is approximately 1.9 psi/hour.
11/24/87 (1715)	Secured pressurization at 29.6 psia (14.92 psig). All fire alarms inside containment have alarmed due to air density change. Security (Fire Panel) is being provided with hourly printouts of containment temperatures (readings from all 52 RTDs) for fire watch.
11/24/87 (1720)	Start Temperature Stabilization.

11/24/87 (2120) Temperature Stabilization criteria met. Start pressure decay test.

11/25/87 (0545) Operations Shift Supervisor reported Control Room annunciator for Ice Condenser equipment access door alarming, indicating probable malfunctioning of portable air compressor inside containment.

11/25/87 (1350) Transient seen in data around 0930. Ice Condenser average temperature trending upward. Checking on Air Handling Units.

11/25/87 (1700) Some AHU fans had tripped due to frosting. Had Operations place these AHUs in manual defrost for a while and then restart the fans.

11/25/87 (2122) Terminated 24 hour ILRT.

11/25/87 (2130) H.P. taking containment air samples.

11/25/87 (2240) Attempt to superimpose leak for verification test. Cannot get flow through Turbine Flowmeter. Now Troubleshooting penetration M204.

11/26/87 (0440) Containment entry to verify proper valve alignment for imposed leak path.

11/26/87 (1000) Appears that one of the two containment isolation valves (one diaphragm valve and one gate valve) is not passing flow. Moving flowmeter to tubing at containment pressure transmitter 1NSPT5050.

11/26/87 (1122) Successfully imposed leak.

11/26/87 (1305) Changed data acquisition frequency from 15 minute intervals to 10 minute intervals to improve trending.

11/26/87 (1535) Terminated Superimposed LRT.

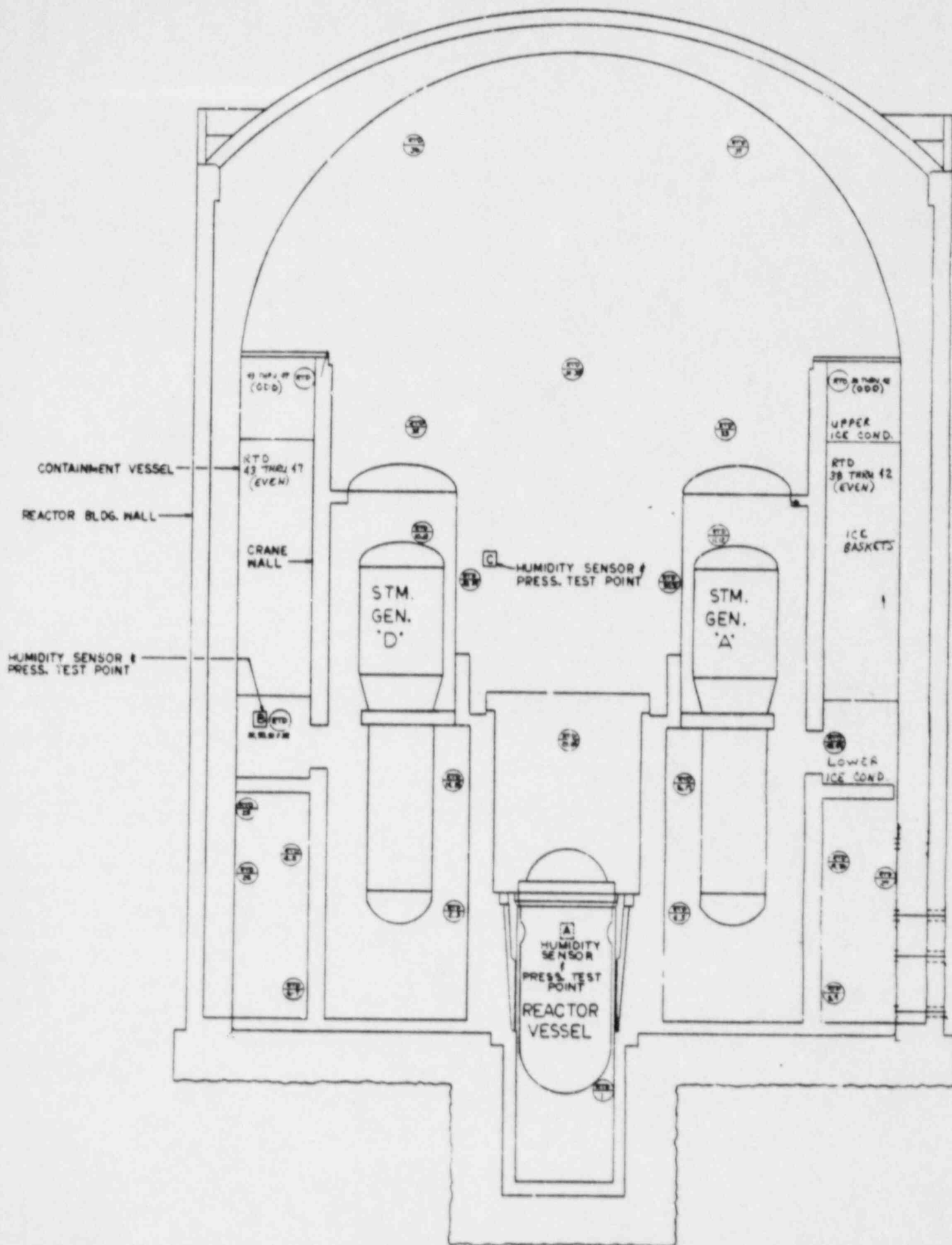
11/26/87 (1620) Began depressurizing containment.

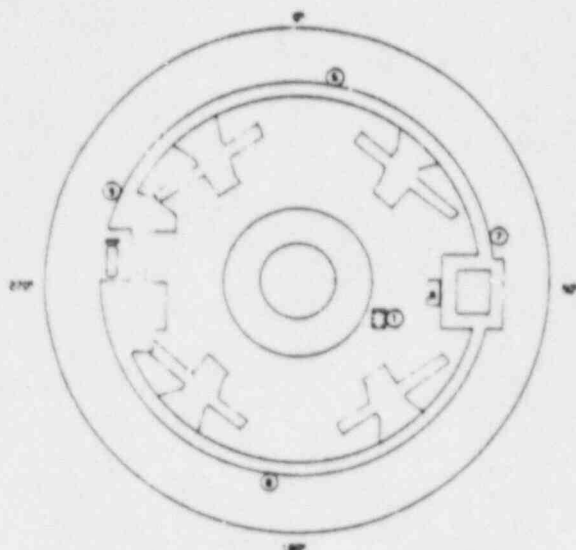
11/27/87 (0230) Unable to depressurize through penetrations M204 or M386 (Containment Air Release and Addition) due to CIVs not passing flow. Aligned the following penetrations for alternate vent paths (at discretion of Health Physics and Operations): M212, M331, M337, M377, M385.

11/27/87 (0250) All fire alarms inside containment have cleared.

11/27/87 (0430) Depressurization complete.

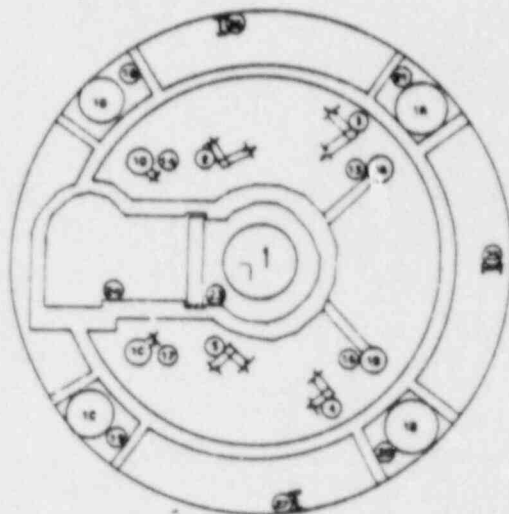
APPENDIX C
RTD LOCATIONS





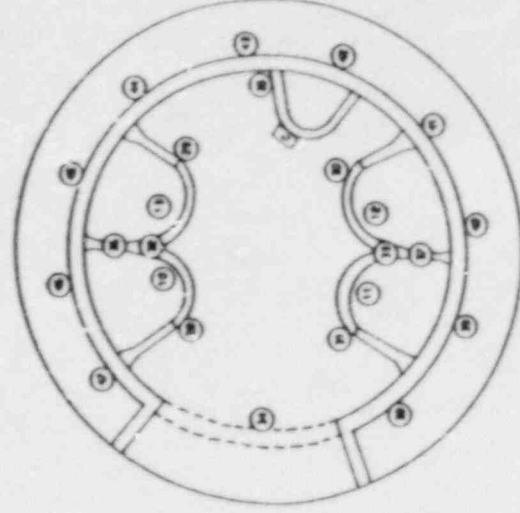
TLRT RTD LOCATIONS BELOW ELEV. 562'-0"

ITEM	AS-BUILT	ELEVATION	REMARKS/INFORMATION
1	1'-11"-0"	566'-10"	EXTEND FROM WALL NEXT TO LADDER CASE WITH 12" BRACKET FOR MOUNTING INFORMATION SEE DETAIL A; C.B. 10'-0" X 12'-0"
6	17'-30"	557'-10"	FOR MOUNTING INFORMATION SEE DETAIL B
7	6'-45"	557'-10"	FOR MOUNTING INFORMATION SEE DETAIL B
8	14'-10"	558'-10"	FOR MOUNTING INFORMATION SEE DETAIL B
9	24'-10"	557'-10"	FOR MOUNTING INFORMATION SEE DETAIL B
8	27'-40"	570'-10"	HAZIDITY TOWER AND PRESSURE TUBING TERMINATION POINT (MOUNTING POINT) WILL SHOW DIMENSIONS ON 10/9/79-1, 2B



TLRT RTD LOCATIONS 562'-0" TO 573'-0"

ITEM	AS-BUILT	ELEVATION	REMARKS/INFORMATION
2	28'-11"-00"	570'-10 1/2"	MOUNT 25'-11" FROM CENTER LINE OF MONITOR BLK. ON S.E. 10' LOWER SUPPORT USE STANCHION PLATE FOR MOUNTING INFORMATION SEE DETAIL E.
3	17'-30"	570'-10 1/2"	MOUNT 25'-11" FROM CENTER LINE OF MONITOR BLK. ON S.E. 10' LOWER SUPPORT USE STANCHION PLATE FOR MOUNTING INFORMATION SEE DETAIL E.
4	14'-07"-15"	570'-10 1/2"	MOUNT 25'-11" FROM CENTER LINE OF MONITOR BLK. ON S.E. 10' LOWER SUPPORT USE STANCHION PLATE FOR MOUNTING INFORMATION SEE DETAIL E.
5	21'-07"-15"	570'-10 1/2"	MOUNT 25'-11" FROM CENTER LINE OF MONITOR BLK. ON S.E. 10' LOWER SUPPORT USE STANCHION PLATE FOR MOUNTING INFORMATION SEE DETAIL E.
14	21'-07"-01" (APPROX.)	560'-10"	MOUNT ON PLATFORM AT 20' WATER USE 2' X 8' ANGLE 6'-10" LONG ATTACH W/4 BOLT FOR MOUNTING INFORMATION SEE DETAIL F. MOUNT 20'-10" FROM S OF S.E. (APPROX.)
15	6'-07"-01" (APPROX.)	560'-10"	MOUNT ON PLATFORM AT 20' WATER USE 2' X 8' ANGLE 6'-10" LONG ATTACH W/4 BOLT FOR MOUNTING INFORMATION SEE DETAIL F. MOUNT 20'-10" FROM S OF S.E. (APPROX.)
16	11'-07"-01" (APPROX.)	560'-10"	MOUNT ON PLATFORM AT 20' WATER USE 2' X 8' ANGLE 6'-10" LONG ATTACH W/4 BOLT FOR MOUNTING INFORMATION SEE DETAIL F. MOUNT 20'-10" FROM S OF S.E. (APPROX.)
17	22'-07"-01" (APPROX.)	560'-10"	MOUNT ON PLATFORM AT 20' WATER USE 2' X 8' ANGLE 6'-10" LONG ATTACH W/4 BOLT FOR MOUNTING INFORMATION SEE DETAIL F. MOUNT 20'-10" FROM S OF S.E. (APPROX.)
18	30'-07"-01"	570'-10"	MOUNT ON WALL, 5'-10" FROM CRANE WALL, LEAVE STANCHION BRACKET FOR MOUNTING INFORMATION SEE DETAIL B
19	21'-07"-01"	570'-10"	MOUNT ON WALL, 7'-10" FROM CRANE WALL, LEAVE STANCHION BRACKET FOR MOUNTING INFORMATION SEE DETAIL B
20	14'-07"-01"	570'-10"	MOUNT ON WALL, 5'-10" FROM CRANE WALL, LEAVE STANCHION BRACKET FOR MOUNTING INFORMATION SEE DETAIL B
21	34'-07"-01"	570'-10"	MOUNT ON WALL, 5'-10" FROM CRANE WALL, LEAVE STANCHION BRACKET FOR MOUNTING INFORMATION SEE DETAIL B
23	22'-07"-01" (APPROX.)	560'-11"	MOUNT 7'-11" X 4'-11" X 3'-11" BRACKET TO WALL FOR MOUNTING INFORMATION SEE DETAIL D
24	25'-07"-01" (APPROX.)	560'-11"	MOUNT 7'-11" X 4'-11" X 3'-11" BRACKET TO WALL ON RIGHT SIDE OF LADDER FOR MOUNTING INFORMATION SEE DETAIL D
25	30'-07"-01"	560'-11"	MOUNT ON COL. LEAVE STANCHION PLATE WELD TO COL. (SOUTH SIDE) FOR MOUNTING INFO. SEE DETAIL E (PROJECTION 2)
26	34'-07"-01"	577'-10"	MOUNT ON COL. LEAVE STANCHION PLATE WELD TO COL. (S.E. SIDE) FOR MOUNTING INFO. SEE DETAIL C (PROJECTION 1)
27	14'-07"-01"	577'-10"	MOUNT ON COL. LEAVE STANCHION PLATE WELD TO COL. (S.E. SIDE) FOR MOUNTING INFO. SEE DETAIL C (PROJECTION 1)



PLAT ATQ LOCATIONS 602'-0" TO 645'-0"

ITEM	QTY	DESCRIPTION	UNIT	PRICE	AMOUNT	REMARKS
1	100	100	100	100	100	100
2	100	100	100	100	100	100
3	100	100	100	100	100	100
4	100	100	100	100	100	100
5	100	100	100	100	100	100
6	100	100	100	100	100	100
7	100	100	100	100	100	100
8	100	100	100	100	100	100
9	100	100	100	100	100	100
10	100	100	100	100	100	100
11	100	100	100	100	100	100
12	100	100	100	100	100	100
13	100	100	100	100	100	100
14	100	100	100	100	100	100
15	100	100	100	100	100	100
16	100	100	100	100	100	100
17	100	100	100	100	100	100
18	100	100	100	100	100	100
19	100	100	100	100	100	100
20	100	100	100	100	100	100
21	100	100	100	100	100	100
22	100	100	100	100	100	100
23	100	100	100	100	100	100
24	100	100	100	100	100	100
25	100	100	100	100	100	100
26	100	100	100	100	100	100
27	100	100	100	100	100	100
28	100	100	100	100	100	100
29	100	100	100	100	100	100
30	100	100	100	100	100	100
31	100	100	100	100	100	100
32	100	100	100	100	100	100
33	100	100	100	100	100	100
34	100	100	100	100	100	100
35	100	100	100	100	100	100
36	100	100	100	100	100	100
37	100	100	100	100	100	100
38	100	100	100	100	100	100
39	100	100	100	100	100	100
40	100	100	100	100	100	100
41	100	100	100	100	100	100
42	100	100	100	100	100	100
43	100	100	100	100	100	100
44	100	100	100	100	100	100
45	100	100	100	100	100	100
46	100	100	100	100	100	100
47	100	100	100	100	100	100
48	100	100	100	100	100	100
49	100	100	100	100	100	100
50	100	100	100	100	100	100

APPENDIX D
LEAKAGE PENALTY ANALYSIS

The following penetrations, flanges, or valves are not exposed to test pressure due to system or test alignment. Type B or C leak rate test results (minimum pathway leakage, instrument error included) are assigned to these penetrations and the total value is added to the ILRT results as Leakage Penalty.

<u>Penetration</u>	<u>System</u>	<u>Reason</u>	<u>Leakage Rate (SCCM)</u>
M256 (INV90)	NV	#1	22.0
M230 (1RN485)	RN	#1	188.4
M308 (1RN430)	RN	#1	11.0
M321 (1KC279)	KC	#1	22.0
M221 (1WL868)	WL	#1	22.0
M345 (1WL806)	WL	#1	48.2
M359 (1WLA22)	WL	#1	22.0
M374 (1WL321)	WL	#1	22.0
M328 (1KC340)	KC	#1	120.0
M204	VQ	#2	22.0
M346	VY	#3	11.0
CNIP-1MI5	ILRT	#4	22.0
CNIP-1MI6	ILRT	#4	22.0
CNIP-1MI7	ILRT	#4	22.0
Upper Airlock Emerg. Air Penet.	IAE	#5	11.0
M372	NF	#6	11.0
M373	NF	#6	11.0
Upper Airlock Aux. Side Door Air Supply	IAE	#7	22.0
Lower Airlock Aux. Side Door Air Supply	IAE	#7	3.0

<u>Penetration</u>	<u>System</u>	<u>Reason</u>	<u>Leakage Rate (SCCM)</u>
M316	RF	#8	0.0

TOTAL LEAKAGE PENALTY: 634.6 SCCM

$$\times 2.1476 \times 10^{-6} \frac{\%/\text{Day}}{\text{SCCM}}$$

$$= 0.00136\%/\text{Day}$$

Reasons for not aligning penetrations:

- #1 These penetrations contain two containment isolation valves which receive seal injection water plus a third "reverse" check valve for overpressure protection. Although the minimum pathway leakage rate for these penetrations is zero, FSAR Table 6.2.4-1 requires that the Type C LRT results of the "reverse" check valve be added to the Type A test results.
- #2 This penetration was the desired flowpath for the Superimposed Leak Rate Test.
- #3 A relief valve for the Containment Vessel was connected to this penetration.
- #4 These were the pressure sensing lines for the ILRT.
- #5 Pressurization fixture was installed on this penetration to allow entry into containment while pressurized.
- #6 These Glycol lines from the chillers in the Auxiliary Building to the Air Handling Units inside the Ice Condenser were required to be in service to keep the Ice Condenser cool.
- #7 These penetrations were in service to provide instrument air to the seals on the Personnel Air Lock outer doors.
- #8 This penetration was initially vented and drained for the test, but was returned to service when it was discovered that isolating M316 also isolated Fire Protection System water to the Unit 2 Auxiliary Feedwater Pump Room. Since this would necessitate a continuous fire watch, it was decided to keep the penetration in service and add the minimum pathway leakage Type C Test results to the Type A Test.

APPENDIX E
LEAKAGE SAVINGS ANALYSIS

As required by IE Information Notice 85-71, both As-Found (pre-maintenance) and As-Left (post-maintenance) leak rate tests were performed on Type B and C penetrations which were repaired or modified during the refueling outage. The total Leakage Savings (which is added to the As-Left ILRT result, yielding the As-Found ILRT result) is calculated by summing the differences between the As-Found Minimum Pathway leakage rate and the As-Left Minimum Pathway leakage rate for all affected penetrations.

Below is a tabulation of the Leakage Savings realized during the Unit 1 EOC-2 refueling outage. The leakage rates listed are corrected for instrument error.

<u>Penetration</u>	<u>Reason for Testing</u>	<u>As-Found Min. Pathway Leak Rate (SCCM)</u>	<u>As-Left Min. Pathway Leak Rate (SCCM)</u>	<u>Leakage Savings (SCCM)</u>
M301	Spare penet. (Type B), utilized during outage	25.0	11.0	14.0
M371	Ice Cond. ice blowing penet. (Type B), utilized during outage	22.0	11.0	11.0
M394	Ice Cond. ice blowing penet. (Type B), utilized during outage	22.0	22.0	0
Fuel Transfer Tube	Type B penet., utilized during outage	150	11.0	139
Equipment Hatch	Type B penet., utilized during outage	498	37.8	460.2
M213	Containment purge penet. (Type C), utilized during outage	20.6	6.95	13.65
M119	Containment purge penet. (Type C), utilized during outage	95.25	471	-375.75
M140	Containment purge penet. (Type C), utilized during outage	23.05	15.25	7.8
M357	Containment purge penet. (Type C), utilized during outage	37.55	227	-189.45
M434	Containment purge penet. (Type C), utilized during outage	138.0	127.5	10.5

<u>Penetration</u>	<u>Reason for Testing</u>	<u>As-Found Min. Pathway Leak Rate (SCCM)</u>	<u>As-Left Min. Pathway Leak Rate (SCCM)</u>	<u>Leakage Savings (SCCM)</u>
M368	Containment purge penet. (Type C), utilized during outage	18.85	9.5	9.35
M433	Containment purge penet. (Type C), utilized during outage	77.0	131.5	-54.5
M456	Containment purge penet. (Type C), utilized during outage	79.1	62.5	16.6
M432	Containment purge penet. (Type C), utilized during outage	118.0	100.6	17.4
M204	Diaphragm replacement on valve 1VQ16A	22.0	22.0	0
M386	Diaphragm replacement on valve 1VQ2A	22.0	11.0	11.0
M347	MOVATS testing on valve 1NV15B	22.0	11.0	11.0
M406, M407	UHI deletion, pipes seal-welded closed	11.0	0	11.0
M454	UHI deletion, pipes seal-welded closed	11.0	0	11.0
M322	1NI95A failed Type C Test	11.0	11.0	0
M345	1WL806 failed Type C Test	4300	48.2	4251.8
M385	1RN405 failed Type C Test	0	0	0
M141	Spare penet. (Type B), added during outage	0	31.0	-31.0
M234	Spare penet. (Type B), added during outage	0	24.2	-24.2

<u>Penetration</u>	<u>Reason for Testing</u>	As-Found Min. Pathway <u>Leak Rate (SCCM)</u>	As-Left Min. Pathway <u>Leak Rate (SCCM)</u>	Leakage Savings <u>(SCCM)</u>
M452	Spare penet. (Type B), added during outage	0	11.0	-11.0
M310	1NM425 failed Type C Test	22.0	22.0	0

TOTAL LEAKAGE SAVINGS: 4,309.4 SCCM

$$\times 2.1476 \times 10^{-6} \frac{\%/\text{Day}}{\text{SCCM}}$$

$$= 0.00925 \%/ \text{Day}$$

APPENDIX F

LOCAL LEAKAGE RATE CONDUCTED SINCE THE LAST ILRT

Since the preoperational Type A Test performed on Catawba Unit 1 in January of 1984, local leak rate testing was conducted in accordance with 10CFR50 Appendix J and the station Technical Specifications. During this time period, the summation of the Type B and C leakage rates averaged less than 8,000 SCCM, which is well below the acceptance criterion of 55,877 SCCM. The maximum Type B and C leakage rate total over this time period was 10,002 SCCM, which still represents less than 0.11 L_a.

Attached are two printouts listing leakage rates for all Type B and C penetrations: Printout #1 lists the As-Left leakage rates for the Unit 1 EOC-1 refueling outage, and Printout #2 lists the As-Left leakage rates for the Unit 1 EOC-2 refueling outage. The "Reported Leakage" for each penetration is the Maximum Pathway leakage rate. When the measured leakage rate is less than the lower (threshold) limit for which the Volumetrics Leak Rate Monitor is calibrated, the calibration lower limit is reported as the leakage rate.

Acceptance Criterion 11.2 on Page 11 of the printouts addresses penetrations which are "Bypass Leakage Paths". (i.e., Any leakage through these penetrations would escape both the Containment Vessel and the Reactor Building, bypassing the Annulus.) Acceptance Criterion 11.3 addresses the Containment Purge System penetrations.

Below is a summary of the Type B and C penetrations which failed the local leak rate test since the last ILRT. In these instances, although the Maximum Pathway Leakage Rate might have exceeded the acceptance criterion of 0.6 L_a, the Minimum Pathway Leakage Rates were always well below the acceptable limits. The list does not include failures of valves being retested following maintenance, or failures of the Containment Purge System valves after they had been opened. (These large butterfly valves, which are opened only during plant shutdown, have a 50% probability of leak rate test failure following cycling. It is for this reason that an As-Found LRT on all of the purge valves was performed prior to opening them.)

<u>VALVE NO. & TYPE</u>	<u>LEAKAGE RATE</u>	<u>DATE OF FAILURE</u>
1NV90 (3/4" Reverse Check Valve)	Unable to maintain test pressure	12/7/84
1KC340 (8" Check Valve)	Unable to maintain test pressure	4/26/85
1WLA22 (3/4" Reverse Check Valve)	Unable to maintain test pressure	8/26/86
1VQ15B (4" Gate Valve)	2400 SCCM	8/29/86
1RN485 (3/4" Reverse Check Valve)	340 SCCM	9/15/86
1NI255B (2" Globe Valve)	Unable to maintain test pressure	10/17/86

<u>VALVE NO. 8 TYPE</u>	<u>LEAKAGE RATE</u>	<u>DATE OF FAILURE</u>
1WL806 (1/2" Reverse Check Valve)	4300 SCCM	10/13/87
1NI95A (3/4" Globe Valve)	Unable to maintain test pressure	10/16/87
1RN405 (6" Check Valve)	Unable to maintain test pressure	10/20/87
1VQ3B (4" Gate Valve)	Unable to maintain test pressure	11/22/87
1NM425 (1/2" Reverse Check Valve)	Unable to maintain test pressure	11/30/87

CATAWBA NUCLEAR STATION
CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
PT/1/A/4200/01L
ENCLOSURE 13.1
TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK (SCCM)	RANGE LOWER LIMIT (SCCM)	INSTR. ERROR (SCCM)	REPORTED LEAKAGE (SCCM)
=====						
PT/1/A/4200/01C - Containment Isolation Valve LRT						
PT/1/A/4200/41B - VQ Valve LRT (1VQ2A & 1VQ16A only)						
(TYPE C)						
*M212	1NC54A	9/30/86	0.0	20.0	2.0	20.0
	1NC53B	9/30/86	0.0	20.0	2.0	
*M215	1VB85	9/29/86	1.0	20.0	2.0	20.0
	1VB83B	10/29/86	2.4	20.0	2.0	
*M216	1NC57	8/20/86	0.9	20.0	2.0	20.0
*M219	1VS56	9/29/86	0.0	20.0	2.0	20.0
	1VS54B	9/29/86	3.0	2.0	1.0	
*M220	1VI79	9/16/86	2.4	20.0	2.0	29.7
	1VI77B & 1VI312A	10/30/86	29.7	20.0	2.0	
*M221	1WL868	8/19/86	2.6	20.0	2.0	20.0
*M240	1RN438	10/15/86	0.0	20.0	2.0	20.0
*M204	1VQ15B	9/16/86	2.1	20.0	2.0	27.0
	1VQ16A	10/30/86	27.0	20.0	2.0	
*M230	1RN485	9/19/86	0.0	0.0	2.0	2.0
*M259	1NB262	8/19/86	0.0	20.0	2.0	20.0
	1NB260B	8/19/86	14.0	20.0	2.0	
*M235	1NM7B	10/16/86	0.0	20.0	2.0	40.0
	1NM3A	10/16/86	0.0	20.0	2.0	
	1NM6A & 1NM424	10/16/86	0.0	20.0	2.0	
*M331	1NI48	11/02/86	0.1	20.0	2.0	20.0
	1NI47A	10/26/86	2.8	20.0	2.0	
*M310	1NM26B	10/19/86	4.6	20.0	2.0	78.9
	1NM22A	10/19/86	58.9	20.0	2.0	
	1NM25A & 1NM425	10/19/86	10.0	20.0	2.0	
*M308	1RN430	8/22/86	0.0	20.0	2.0	20.0

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK (SCCM)	RANGE LOWER LIMIT (SCCM)	INSTR. ERROR (SCCM)	REPORTED LEAKAGE (SCCM)
*M316	1RF392	8/28/86	14.1	20.0	2.0	20.0
*M323	1KC430A	8/29/86	198.0	200.0	20.0	200.0
	1KC429B & 1KC47	8/29/86	23.8	20.0	2.0	
*M322	1NI95A	10/29/86	9.4	20.0	2.0	20.0
	1NI96B & 1NI120B	10/29/86	1.3	20.0	2.0	
*M327	1NC141	9/14/86	2.4	20.0	2.0	20.0
	1NC142	9/14/86	0.0	20.0	2.0	
*M329	1NC196A	10/07/86	2.5	20.0	2.0	20.0
	1NC195B	10/07/86	0.4	20.0	2.0	
*M332	1VY16	10/01/86	401.0	200.0	20.0	401.0
	1VY15B	10/01/86	93.5	0.0	2.0	
*M337	1YM121	10/21/86	0.0	20.0	2.0	20.0
	1YM119B	10/21/86	0.0	20.0	2.0	
*M348	1WL450A	10/20/86	0.0	20.0	2.0	20.0
	1WL451B	10/20/86	0.0	20.0	2.0	
*M361	1RF448	10/06/86	396.0	200.0	20.0	396.0
*M356	1WE20 & 1WE22	8/18/86	10.5	2.0	1.0	10.5
*M377	1FW5	8/18/86	586.0	200.0	20.0	586.0
	1FW4	8/18/86	2.5	20.0	2.0	
*M358	1FW11 & 1FW13	8/18/86	8.6	20.0	2.0	20.0
*M454	1NI266A & 1NI267A & 1NI264B & 1NI336	10/04/86	1.2	2.0	1.0	2.0
*M373	1NF229	8/24/86	0.0	2.0	1.0	2.0
	1NF228A	8/24/86	0.0	2.0	1.0	
*M386	1VQ3B	8/24/86	32.8	20.0	2.0	32.8
	1VQ2A	11/01/86	0.0	10.0	1.0	

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK (SCCM)	RANGE LOWER LIMIT (SCCM)	INSTR. ERROR (SCCM)	REPORTED LEAKAGE (SCCM)
*M385	1RN405A	8/22/86	2.5	2.0	1.0	2.5
*M372	1NF234A	8/24/86	138.0	20.0	2.0	138.0
	1NF233B	8/24/86	0.0	2.0	1.0	
	1NF235	8/24/86	1.0	2.0	1.0	
*M328	1KC340	10/06/86	0.0	20.0	2.0	20.0
M228	1NV874	8/15/86	0.0	20.0	2.0	20.0
	1NV872A	8/15/86	3.3	20.0	2.0	
M346	1VY17A	10/01/86	24.7	20.0	2.0	31.7
	1VY18B	10/01/86	31.7	20.0	2.0	
M256	1NV90	8/23/86	59.3	20.0	2.0	59.3
M347	1NV15B	10/25/86	57.0	200.0	20.0	200.0
	1NV14	10/25/86	0.0	20.0	2.0	
M345	1WL806	8/26/86	2.7	20.0	2.0	20.0
M374	1WL321	8/27/86	0.1	20.0	2.0	20.0
M359	1WLA22	10/12/86	2.2	20.0	2.0	20.0
M236	1NM72B	8/27/86	0.0	20.0	2.0	80.0
	1NM75B	8/27/86	0.5	20.0	2.0	
	1NM78B	8/27/86	0.0	20.0	2.0	
	1NM81B	8/27/86	0.5	20.0	2.0	
	1NM82A &	8/27/86	1.6	20.0	2.0	
	1NM69					
M406	1NI255B &	11/06/86	0.0	20.0	2.0	20.0
	1NI258A					
M321	1KC279	10/04/86	0.6	20.0	2.0	20.0
CNIP-1MI1	ANALYZER	8/17/86	2.3	20.0	2.0	20.0
	SAMPLE	8/17/86	1.1	20.0	2.0	
CNIP-1MI2	ANALYZER	8/17/86	3.0	20.0	2.0	20.0
	SAMPLE	8/17/86	4.0	20.0	2.0	
CNIP-1MI3	ANALYZER	8/17/86	0.0	20.0	2.0	20.0
	SAMPLE	8/17/86	0.0	20.0	2.0	

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK (SCCM)	RANGE LOWER LIMIT (SCCM)	INSTR. ERROR (SCCM)	REPORTED LEAKAGE (SCCM)
CNIP-1M14	ANALYZER	8/17/86	31.8	20.0	2.0	32.1
	SAMPLE	8/17/86	32.1	20.0	2.0	
CNIP-1M15	1MIMV6480	8/15/86	0.8	20.0	2.0	20.0
	1MIMV6481	8/15/86	0.8	20.0	2.0	
CNIP-1M16	1MIMV6490	8/15/86	0.9	20.0	2.0	20.0
	1MIMV6491	8/15/86	0.7	20.0	2.0	
CNIP-1M17	1MIMV6470	8/15/86	0.7	20.0	2.0	20.0
	1MIMV6471	8/15/86	0.8	20.0	2.0	
CNIP-1EMF (IN)	1MISV5230	9/29/86	0.4	2.0	1.0	3.8
	1MISV5231	9/29/86	3.8	2.0	1.0	
CNIP-1EMF (OUT)	1MISV5232	9/29/86	2.0	2.0	1.0	2.0
	1MISV5233	9/29/86	0.2	2.0	1.0	
CNIP-1NS9	1NSPT5060 &	8/18/86	5.1	20.0	2.0	20.0
	1NSPT5170 &					
	1NSPT5180					
CNIP-1NS10	1NSPT5050 &	8/18/86	2.5	20.0	2.0	20.0
	1NSPT5250 &					
	1NSPT5260					
CNIP-1NS11	1NSPT5040 &	8/18/86	1.9	20.0	2.0	20.0
	1NSPT5270 &					
	1NSPT5380 &					
	1NSPT5240					
CNIP-1NS12	1NSPT5070 &	8/18/86	12.9	20.0	2.0	20.0
	1NSFT5160 &					
	1NSPT5190 &					
	1NSPT5370					
Upper PAL	1IASV5080	8/16/86	0.0	20.0	2.0	20.0
Air Supply/	1IACV5340	8/16/86	10.6	20.0	2.0	
Equal. Pen.	1IACV5360	8/16/86	0.5	20.0	2.0	
	1IACV5380	8/16/86	0.4	20.0	2.0	
Lower PAL	1IASV5160	8/16/86	0.0	20.0	2.0	20.6
Air Supply/	1IACV5350	8/16/86	20.6	20.0	2.0	
Equal. Pen.	1IACV5370	8/16/86	0.7	20.0	2.0	
	1IACV5390	8/16/86	0.9	20.0	2.0	

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK (SCCM)	RANGE LOWER LIMIT (SCCM)	INSTR. ERROR (SCCM)	REPORTED LEAKAGE (SCCM)
=====						
PT/1/A/4200/41A - Containment Purge Isolation Valve LRT (TYPE C)						
*M213	1VP17A & 1VP18B	10/22/86	0.0	20.0	2.0	20.0
*M119	1VP15A & 1VP18B	10/22/86	0.0	20.0	2.0	20.0
*M140	1VP19A & 1VP20B	10/22/86	18.0	20.0	2.0	20.0
*M357	1VP6B & 1VP7A	10/23/86	3.0	20.0	2.0	20.0
*M434	1VP8B & 1VP9A	10/22/86	227.0	200.0	20.0	227.0
*M368	1VP10A & 1VP11B	10/22/86	220.0	200.0	20.0	220.0
*M433	1VP12A & 1VP13B	10/24/86	6.0	20.0	2.0	20.0
*M456	1VP1B & 1VP2A	10/22/86	56.9	20.0	2.0	56.9
*M432	1VP3B & 1VP4A	10/22/86	640.0	200.0	20.0	640.0

PT/1/A/4200/01B - Electrical Penetration O-Ring Leak Rate Test
 (TYPE B)

E101	8/15/86	0.3	0.0	2.0	2.0
E102	8/15/86	0.3	0.0	2.0	2.0
E103	8/15/86	0.5	0.0	2.0	2.0
E104	8/15/86	0.0	0.0	2.0	2.0
E105	8/15/86	0.0	0.0	2.0	2.0

CATAWBA NUCLEAR STATION
CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
PT/1/A/4200/01L
ENCLOSURE 13.1
TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK (SCCM)	RANGE LOWER LIMIT (SCCM)	INSTR. ERROR (SCCM)	REPORTED LEAKAGE (SCCM)
E106		8/15/86	0.0	0.0	2.0	2.0
E107		8/15/86	0.1	0.0	2.0	2.0
E108		8/15/86	0.5	0.0	2.0	2.0
E109		8/15/86	0.1	0.0	2.0	2.0
E111		8/15/86	0.2	0.0	2.0	2.0
E112		8/15/86	0.1	0.0	2.0	2.0
E114		8/15/86	0.2	0.0	2.0	2.0
E115		8/15/86	0.0	0.0	2.0	2.0
E116		8/15/86	0.1	0.0	2.0	2.0
E117		8/15/86	0.0	0.0	2.0	2.0
E118		8/15/86	0.2	0.0	2.0	2.0
E120		8/14/86	0.5	0.0	2.0	2.0
E122		8/14/86	0.2	0.0	2.0	2.0
E123		8/14/86	0.5	0.0	2.0	2.0
E124		8/14/86	0.4	0.0	2.0	2.0
E126		8/14/86	0.4	0.0	2.0	2.0
E127		8/14/86	0.5	0.0	2.0	2.0
E129		8/15/86	0.4	0.0	2.0	2.0
E130		8/14/86	0.3	0.0	2.0	2.0
E132		8/14/86	0.2	0.0	2.0	2.0
E133		8/14/86	0.4	0.0	2.0	2.0
E134		8/14/86	0.5	0.0	2.0	2.0
E135		8/14/86	0.3	0.0	2.0	2.0

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK (SCCM)	RANGE LOWER LIMIT (SCCM)	INSTR. ERROR (SCCM)	REPORTED LEAKAGE (SCCM)
E136		8/14/86	0.4	0.0	2.0	2.0
E137		8/14/86	0.4	0.0	2.0	2.0
E200		8/14/86	0.1	0.0	2.0	2.0
E202		8/14/86	0.1	0.0	2.0	2.0
E203		8/14/86	0.3	0.0	2.0	2.0
E205		8/14/86	0.3	0.0	2.0	2.0
E206		8/14/86	0.1	0.0	2.0	2.0
E208		8/14/86	0.4	0.0	2.0	2.0
E211		8/14/86	0.4	0.0	2.0	2.0
E222		8/15/86	0.7	0.0	2.0	2.0
E223		8/16/86	0.0	0.0	2.0	2.0
E224		8/16/86	1.7	0.0	2.0	2.0
E225		8/15/86	1.7	0.0	2.0	2.0
E226		8/15/86	0.9	0.0	2.0	2.0
E231		8/15/86	0.6	0.0	2.0	2.0
E232		8/16/86	0.2	0.0	2.0	2.0
E233		8/16/86	0.3	0.0	2.0	2.0
E237		8/15/86	0.6	0.0	2.0	2.0
E238		8/16/86	0.5	0.0	2.0	2.0
E244		8/16/86	0.0	0.0	2.0	2.0
E245		8/16/86	1.8	0.0	2.0	2.0
E252		8/16/86	0.0	0.0	2.0	2.0
E268		8/14/86	0.5	0.0	2.0	2.0

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
E269		8/14/86	0.5	0.0	2.0	2.0
E270		8/14/86	0.2	0.0	2.0	2.0
E271		8/14/86	0.2	0.0	2.0	2.0
E311		8/16/86	0.2	0.0	2.0	2.0
E313		8/14/86	0.4	0.0	2.0	2.0
E364		8/14/86	0.2	0.0	2.0	2.0
E366		8/14/86	0.4	0.0	2.0	2.0
E379		8/14/86	0.2	0.0	2.0	2.0
E391		8/14/86	0.6	0.0	2.0	2.0
E392		8/14/86	0.6	0.0	2.0	2.0
E395		8/14/86	0.6	0.0	2.0	2.0
E396		8/14/86	1.0	0.0	2.0	2.0
E399		8/14/86	0.9	0.0	2.0	2.0
E3102		8/14/86	0.6	0.0	2.0	2.0
E402		8/15/86	0.3	0.0	2.0	2.0
E403		8/15/86	0.0	0.0	2.0	2.0
E412		8/14/86	0.0	0.0	2.0	2.0
E415		8/14/86	0.0	0.0	2.0	2.0
E418		8/16/86	0.2	0.0	2.0	2.0
E419		8/16/86	0.6	0.0	2.0	2.0
E420		8/15/86	0.0	0.0	2.0	2.0
E421		8/15/86	0.0	0.0	2.0	2.0
E424		8/14/86	0.3	0.0	2.0	2.0

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK (SCCM)	RANGE LOWER LIMIT (SCCM)	INSTR. ERROR (SCCM)	REPORTED LEAKAGE (SCCM)
E425		8/14/86	0.4	0.0	2.0	2.0
E426		8/14/86	0.3	0.0	2.0	2.0
E427		8/14/86	0.7	0.0	2.0	2.0
E428		8/14/86	0.4	0.0	2.0	2.0
E429		8/14/86	0.7	0.0	2.0	2.0
E430		8/14/86	0.4	0.0	2.0	2.0
E431		8/14/86	0.2	0.0	2.0	2.0
E439		8/14/86	0.4	0.0	2.0	2.0
E440		8/14/86	0.2	0.0	2.0	2.0
E443		8/15/86	0.0	0.0	2.0	2.0
E444		8/15/86	0.0	0.0	2.0	2.0
E445		8/15/86	0.0	0.0	2.0	2.0
E446		8/15/86	0.0	0.0	2.0	2.0
E447		8/15/86	0.0	0.0	2.0	2.0
E448		8/15/86	0.0	0.0	2.0	2.0
E449		8/15/86	0.0	0.0	2.0	2.0
E450		8/15/86	0.0	0.0	2.0	2.0

PT/1/A/4200/01D - Fuel Transfer Tube LRT
 (TYPE B)

FUEL TRANSFER TUBE	10/28/86	1.0	0.0	2.0	2.0
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PT/1/A/4200/01E - Upper Personnel Air Lock LRT
 (TYPE B)

UPPER PAL	7/30/86	1306.0	200.0	20.0	1306.0
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CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
=====						
PT/1/A/4200/01F - Lower Personnel Air Lock LRT (TYPE B)						
LOWER PAL		7/22/86	241.0	200.0	20.0	241.0
PT/1/A/4200/01H - Equipment Hatch LRT (TYPE B)						
EQUIPMENT HATCH		11/02/86	248.0	200.0	20.0	248.0
PT/1/A/4200/01P - NF Penetration LRT (TYPE B)						
M371		9/18/86	0.1	2.0	1.0	2.0
M394		9/18/86	0.1	2.0	1.0	2.0
PT/1/A/4200/01R - M301 Penetration LRT (TYPE B)						
M301		10/21/86	2.0	0.0	2.0	2.0
PT/1/A/4200/01G - Mech. Bellows Structural Integrity LRT (TYPE B)						
*M110		9/25/86	0.0	0.0	2.0	2.0

CATAWBA NUCLEAR STATION
CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
PT/1/A/4200/01L
ENCLOSURE 13.1
TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
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ACCEPTANCE CRITERIA VERIFICATION

- 11.1 Combined leakage rate of less than 0.60 La for all penetrations and valves subject to Type B & C leak rate tests when pressurized to Pa (Error Adjusted leakage < 55,877 sccm).

Total Type B & C Leakage:	6288.8 sccm
+ Root Sum Squared Instr. Error:	70.8 sccm
-----	-----
Error Adjusted Leakage:	6359.6 sccm

- 11.2 Combined Bypass leakage of less than 0.07 La for all penetrations identified in Technical Specifications Table 3.6-1 when pressurized to Pa (Error Adjusted Leakage < 6,519 sccm).

Combined Bypass Leakage:	3534.3 sccm
+ Root Sum Squared Instr. Error:	54.2 sccm
-----	-----
Error Adjusted Leakage:	3588.4 sccm

*Identifies penetrations listed in Tech. Spec Table 3.6-1.

- 11.3 Combined leakage rate of less than 0.05 La for all upper/lower and instrument room Containment Purge penetrations when pressurized to Pa (Error Adjusted Leakage < 4,656 sccm).

Containment Purge Penet. Leakage:	1243.9 sccm
+ Root Sum Squared Instr. Error:	35.0 sccm
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Error Adjusted Leakage:	1278.9 sccm

Data Input By: Mark G. Newton, 11/6/86

Data Input Verified By: Alison H. O'Neil, 11/6/86

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
=====						
PT/1/A/4200/01C - Containment Isolation Valve LRT						
PT/1/A/4200/41B - VQ Valve LRT (1VQ2A & 1VQ16A only)						
(TYPE C)						
*M212	1NC54A	10/11/87	69.2	20.0	2.0	69.7
	1NC53B	10/11/87	69.7	20.0	2.0	
*M215	1VB85	11/22/87	2.0	20.0	2.0	20.0
	1VB83B	11/22/87	0.0	10.0	1.0	
*M216	1NC57	10/11/87	0.0	20.0	2.0	20.0
*M219	1VS56	11/23/87	11.3	20.0	2.0	20.0
	1VS54B	11/23/87	0.0	10.0	1.0	
*M220	1VI79	11/27/87	2.0	20.0	2.0	20.0
	1VI77B & 1VI312A	11/27/87	3.0	10.0	1.0	
*M221	1WL868	10/7/87	1.2	20.0	2.0	20.0
*M240	1RN438	11/15/87	7.3	20.0	2.0	20.0
*M204	1VQ15B	11/22/87	0.0	20.0	2.0	132.0
	1VQ16A	12/9/87	132.0	20.0	2.0	
*M230	1RN485	11/15/87	186.4	20.0	2.0	186.4
*M259	1NB262	10/11/87	56.4	20.0	2.0	56.4
	1NB260B	10/11/87	6.5	20.0	2.0	
*M235	1NM7B	11/29/87	0.0	20.0	2.0	40.0
	1NM3A	11/29/87	0.0	20.0	2.0	
	1NM6A & 1NM424	11/29/87	0.0	20.0	2.0	
*M331	1NI48	10/11/87	77.5	20.0	2.0	77.5
	1NI47A	10/11/87	5.0	20.0	2.0	
*M310	1NM26B	11/29/87	0.0	20.0	2.0	121.6
	1NM22A	10/17/87	10.8	10.0	1.0	
	1NM25A & 1NM425	12/06/87	110.8	20.0	2.0	
*M308	1RN430	10/20/87	0.0	10.0	1.0	10.0

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
*M316	1RF392	10/12/87	22.4	20.0	2.0	22.
*M323	1KC430A	10/16/87	24.0	20.0	2.0	24.
	1KC429B & 1KC47	10/16/87	24.1	20.0	2.0	
*M322	1NI95A	11/28/87	10.5	20.0	2.0	20.
	1NI96B & 1NI120B	10/16/87	1.0	10.0	1.0	
*M327	1NC141	10/14/87	0.0	20.0	2.0	20.
	1NC142	10/14/87	2.5	20.0	2.0	
*M329	1NC196A	10/14/87	14.5	20.0	2.0	20.
	1NC195B	10/14/87	1.1	20.0	2.0	
*M332	1VY16	10/12/87	192.0	100.0	10.0	192.
	1VY15B	10/12/87	32.3	20.0	2.0	
*M337	1YM121	10/12/87	2.0	20.0	2.0	20.
	1YM119B	10/12/87	2.0	20.0	2.0	
*M348	1WL450A	10/12/87	0.0	20.0	2.0	20.
	1WL451B	10/12/87	0.0	20.0	2.0	
*M361	1RF448	10/14/87	32.5	20.0	2.0	32.
*M356	1WE20 & 1WE22	10/13/87	4.1	10.0	1.0	10
*M377	1FW5	11/17/87	3.6	20.0	2.0	40.
	1FW4	11/17/87	40.2	20.0	2.0	
*M358	1FW11 & 1FW13	11/17/87	5.9	20.0	2.0	20.
*M373	1NF229	11/17/87	0.0	10.0	1.0	10.
	1NF228A	11/17/87	0.0	10.0	1.0	
*M386	1VQ3B	12/01/87	163.0	100.0	10.0	183.
	1VQ2A	12/8/87	0.0	10.0	1.0	
*M385	1RN405A	11/15/87	5.8	10.0	1.0	10.

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
*M372	1NF234A	11/16/87	0.0	10.0	1.0	20.0
	1NF233B	11/16/87	0.0	10.0	1.0	
	1NF235	11/16/87	0.0	10.0	1.0	
*M328	1KC340	10/15/87	118.0	20.0	2.0	118.0
M228	1NV874	10/14/87	2.6	20.0	2.0	20.0
	1NV872A	10/14/87	0.8	10.0	1.0	
M346	1VY17A	10/12/87	0.0	10.0	1.0	10.0
	1VY18B	10/12/87	0.3	10.0	1.0	
M256	1NV90	10/10/87	2.4	20.0	2.0	20.0
M347	1NV15B	11/16/87	0.0	20.0	2.0	20.0
	1NV14	10/10/87	18.0	20.0	2.0	
M345	1WL806	11/27/87	46.2	20.0	2.0	46.2
M374	1WL321	10/13/87	0.0	20.0	2.0	20.0
M359	1WLA22	10/16/87	2.2	20.0	2.0	20.0
M236	1NM72B	10/13/87	0.0	20.0	2.0	80.0
	1NM75B	10/13/87	2.9	20.0	2.0	
	1NM78B	10/13/87	2.0	20.0	2.0	
	1NM81B	10/13/87	3.0	20.0	2.0	
	1NM82A & 1NM69	10/13/87	0.0	20.0	2.0	
M321	1KC279	10/15/87	2.0	20.0	2.0	20.0
CNIP-1MI1	ANALYZER	10/5/87	6.3	20.0	2.0	20.0
	SAMPLE	10/5/87	2.8	20.0	2.0	
CNIP-1MI2	ANALYZER	10/5/87	4.5	20.0	2.0	20.0
	SAMPLE	10/5/87	6.2	20.0	2.0	
CNIP-1MI3	ANALYZER	10/5/87	2.1	20.0	2.0	20.0
	SAMPLE	10/5/87	2.3	20.0	2.0	
CNIP-1MI4	ANALYZER	10/5/87	32.2	20.0	2.0	32.2
	SAMPLE	10/5/87	30.6	20.0	2.0	
CNIP-1MI5	1MIMV6480	10/6/87	0.0	20.0	2.0	20.0
	1MIMV6481	10/6/87	0.4	20.0	2.0	

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
=====						
CNIP-1MI6	1MIMV6490	10/6/87	4.6	20.0	2.0	20.
	1MIMV6491	10/6/87	4.7	20.0	2.0	
CNIP-1MI7	1MIMV6470	10/6/87	1.3	20.0	2.0	20.
	1MIMV6471	10/6/87	1.5	20.0	2.0	
CNIP-1EMF <IN>	1MISV5230	10/13/87	0.0	10.0	1.0	10.
	1MISV5231	10/13/87	1.5	10.0	1.0	
CNIP-1EMF <OUT>	1MISV5232	10/13/87	1.0	10.0	1.0	10.
	1MISV5233	10/13/87	3.0	10.0	1.0	
CNIP-1NS9	1NSPT5060	&10/5/87	3.8	20.0	2.0	20.
	1NSPT5170	&				
	1NSPY5180					
CNIP-1NS10	1NSPT5050	&10/5/87	1.4	20.0	2.0	20.
	1NSPT5250	&				
	1NSPT5260					
CNIP-1NS11	1NSPT5040	&10/5/87	4.8	20.0	2.0	20.
	1NSPT5270	&				
	1NSPT5380	&				
	1NSPT5240					
CNIP-1NS12	1NSPT5070	&10/5/87	7.2	20.0	2.0	20.
	1NSPT5160	&				
	1NSPT5190	&				
	1NSPT5370					
Upper PAL Air Supply/ Equal. Pen.	1IASV5080	10/6/87	2.8	20.0	2.0	45.
	1IACV5340	10/6/87	45.0	20.0	2.0	
	1IACV5360	10/6/87	0.9	20.0	2.0	
	1IACV5380	10/6/87	6.8	20.0	2.0	
Lower PAL Air Supply/ Equal. Pen.	1IASV5160	10/8/87	0.0	2.0	1.0	3.
	1IACV5350	10/8/87	3.1	2.0	1.0	
	1IACV5370	10/8/87	0.2	2.0	1.0	
	1IACV5390	10/8/87	0.2	2.0	1.0	

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
=====						
PT/1/A/4200/41A - Containment Purge Isolation Valve LRT (TYPE C)						
*M213	1VP17A & 1VP18B	12/18/87	0.0	10.0	1.0	10.0
*M119	1VP15A & 1VP16B	12/18/87	763.0	200.0	20.0	763.0
*M140	1VP19A & 1VP20B	12/18/87	241.0	200.0	20.0	241.0
*M357	1VP6B & 1VP7A	12/18/87	464.0	200.0	20.0	464.0
*M434	1VP8B & 1VP9A	12/18/87	687.0	100.0	10.0	687.0
*M368	1VP10A & 1VP11B	12/18/87	382.0	200.0	20.0	382.0
*M433	1VP12A & 1VP13B	12/18/87	702.0	100.0	10.0	702.0
*M456	1VP1B & 1VP2A	12/18/87	115.0	100.0	10.0	115.0
*M432	1VP3B & 1VP4A	12/18/87	710.0	100.0	10.0	710.0

PT/1/A/4200/01B - Electrical Penetration O-Ring Leak Rate Test
(TYPE B)

E101	10/6/87	0.0	20.0	2.0	20.0
E102	10/6/87	0.0	20.0	2.0	20.0
E103	10/6/87	0.0	20.0	2.0	20.0
E104	10/6/87	0.0	20.0	2.0	20.0
E105	10/6/87	0.0	20.0	2.0	20.0
E106	10/6/87	0.0	20.0	2.0	20.0

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
=====						
E107		10/6/87	0.0	20.0	2.0	20.
E108		10/6/87	0.0	20.0	2.0	20.
E109		10/6/87	0.0	20.0	2.0	20.
E111		10/6/87	0.0	20.0	2.0	20.
E112		10/6/87	0.0	20.0	2.0	20.
E114		10/6/87	0.0	20.0	2.0	20.
E115		10/6/87	0.0	20.0	2.0	20.
E116		10/6/87	0.0	20.0	2.0	20.
E117		10/6/87	0.0	20.0	2.0	20.
E118		10/6/87	0.0	20.0	2.0	20.
E120		10/6/87	0.0	20.0	2.0	20.
E122		10/6/87	0.0	20.0	2.0	20.
E123		10/6/87	0.0	20.0	2.0	20.
E124		10/6/87	0.0	20.0	2.0	20.
E126		10/6/87	0.0	20.0	2.0	20.
E127		10/6/87	0.0	20.0	2.0	20.
E129		10/6/87	0.0	20.0	2.0	20.
E130		10/6/87	0.0	20.0	2.0	20.
E132		10/6/87	0.0	20.0	2.0	20.
E133		10/6/87	0.0	20.0	2.0	20.
E134		10/6/87	0.0	20.0	2.0	20.
E135		10/6/87	0.0	20.0	2.0	20.
E136		10/6/87	0.0	20.0	2.0	20.

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
=====						
E137		10/6/87	0.0	20.0	2.0	20.0
E200		10/6/87	0.0	20.0	2.0	20.0
E202		10/6/87	0.0	20.0	2.0	20.0
E203		10/6/87	0.0	20.0	2.0	20.0
E205		10/6/87	0.0	20.0	2.0	20.0
E206		10/6/87	0.0	20.0	2.0	20.0
E208		10/6/87	0.0	20.0	2.0	20.0
E211		10/6/87	0.0	20.0	2.0	20.0
E222		10/6/87	0.0	20.0	2.0	20.0
E223		10/11/87	0.0	20.0	2.0	20.0
E224		10/6/87	0.0	20.0	2.0	20.0
E225		10/6/87	0.0	20.0	2.0	20.0
E226		10/6/87	0.0	20.0	2.0	20.0
E231		10/6/87	0.0	20.0	2.0	20.0
E232		10/6/87	0.0	20.0	2.0	20.0
E233		10/6/87	0.0	20.0	2.0	20.0
E237		10/6/87	0.0	20.0	2.0	20.0
E238		10/6/87	0.0	20.0	2.0	20.0
E244		10/6/87	0.0	20.0	2.0	20.0
E245		10/6/87	0.0	20.0	2.0	20.0
E252		10/6/87	0.0	20.0	2.0	20.0
E268		10/6/87	0.0	20.0	2.0	20.0
E269		10/6/87	0.0	20.0	2.0	20.0

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
=====						
E270		10/6/87	0.0	20.0	2.0	20.
E271		10/6/87	0.0	20.0	2.0	20.
E311		10/6/87	0.0	20.0	2.0	20.
E313		10/5/87	0.0	20.0	2.0	20.
E364		10/5/87	0.0	20.0	2.0	20.
E366		10/5/87	0.0	20.0	2.0	20.
E379		10/5/87	0.0	20.0	2.0	20.
E391		10/5/87	0.0	20.0	2.0	20.
E392		10/5/87	0.0	20.0	2.0	20.
E395		10/5/87	0.0	20.0	2.0	20.
E398		10/5/87	0.0	20.0	2.0	20.
E399		10/5/87	0.0	20.0	2.0	20.
E3102		10/5/87	0.0	20.0	2.0	20.
E402		10/6/87	0.0	20.0	2.0	20.
E403		10/6/87	0.0	20.0	2.0	20.
E412		10/5/87	0.0	20.0	2.0	20.
E415		10/5/87	0.0	20.0	2.0	20.
E418		10/6/87	0.0	20.0	2.0	20.
E419		10/6/87	0.0	20.0	2.0	20.
E420		10/6/87	0.0	20.0	2.0	20.
E421		10/6/87	0.0	20.0	2.0	20.
E424		10/5/87	0.0	20.0	2.0	20.
E425		10/5/87	0.0	20.0	2.0	20.

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
=====						
E426		10/5/87	0.0	20.0	2.0	20.0
E427		10/5/87	0.0	20.0	2.0	20.0
E428		10/5/87	0.0	20.0	2.0	20.0
E429		10/5/87	0.0	20.0	2.0	20.0
E430		10/5/87	0.0	20.0	2.0	20.0
E431		10/5/87	0.0	20.0	2.0	20.0
E439		10/5/87	0.0	20.0	2.0	20.0
E440		10/5/87	0.0	20.0	2.0	20.0
E443		10/6/87	0.0	20.0	2.0	20.0
E444		10/6/87	0.0	20.0	2.0	20.0
E445		10/6/87	0.0	20.0	2.0	20.0
E446		10/6/87	0.0	20.0	2.0	20.0
E447		10/6/87	0.0	20.0	2.0	20.0
E448		10/6/87	0.0	20.0	2.0	20.0
E449		10/6/87	0.0	20.0	2.0	20.0
E450		10/6/87	0.0	20.0	2.0	20.0
<hr/>						
PT/1/A/4200/01D - Fuel Transfer Tube LRT (TYPE B)						
FUEL TRANSFER TUBE		11/20/87	0.0	10.0	1.0	10.0
<hr/>						
PT/1/A/4200/01E - Upper Personnel Air Lock LRT (TYPE B)						
UPPER PAL		09/21/87	974.0	220.0	21.0	974.0

CATAWBA NUCLEAR STATION
 CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
 PT/1/A/4200/01L
 ENCLOSURE 13.1
 TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
=====						
PT/1/A/4200/01F - Lower Personnel Air Lock LRT (TYPE B)						
LOWER PAL		09/25/87	696.8	20.0	22.0	696.
PT/1/A/4200/01H - Equipment Hatch LRT (TYPE B)						
EQUIPMENT HATCH		12/20/87	55.0	10.0	1.0	55.
PT/1/A/4200/01P - NF Penetration LRT (TYPE B)						
M371		11/21/87	8.7	10.0	1.0	10.
M394		11/20/87	8.0	20.0	2.0	20.
PT/1/A/4200/01R - M301, M141, M234, M452 Penetrations LRT (TYPE B)						
M301		11/19/87	0.0	10.0	1.0	10.
M141		10/22/87	29.0	20.0	2.0	29.
M234		11/19/87	23.2	10.0	1.0	23.
M452		12/18/87	26.8	10.0	1.0	26.
PT/1/A/4200/01G - Mech. Bellows Structural Integrity LRT (TYPE B)						
*M110		12/03/87	0.0	20.0	2.0	20.
PT/1/A/4200/01M - Incore Instr Thermocouple Penet LRT (TYPE B)						
E121		6/10/87	3.0	10.0	1.0	10.
E138		6/10/87	0.0	10.0	1.0	10.

CATAWBA NUCLEAR STATION
CONTROLLING PROCEDURE FOR TYPE B&C LEAK RATE TESTS
PT/1/A/4200/01L
ENCLOSURE 13.1
TYPE B&C LEAK RATE TEST REPORT

PENET.	VALVE	TEST DATE	MEAS. LEAK <SCCM>	RANGE LOWER LIMIT <SCCM>	INSTR. ERROR <SCCM>	REPORTED LEAKAGE <SCCM>
=====						

ACCEPTANCE CRITERIA VERIFICATION

- 11.1 Combined leakage rate of less than 0.60 La for all penetrations and valves subject to Type B & C leak rate tests when pressurized to Pa (Error Adjusted leakage < 55,877 sccm).

Total Type B & C Leakage:	9941.1 sccm
+ Root Sum Squared Instr. Error:	60.9 sccm
-----	-----
Error Adjusted Leakage:	10002.0 sccm

- 11.2 Combined Bypass leakage of less than 0.07 La for all penetrations identified in Technical Specifications Table 3.6-1 when pressurized to Pa (Error Adjusted Leakage < 6,519 sccm).

Combined Bypass Leakage:	5689.8 sccm
+ Root Sum Squared Instr. Error:	48.1 sccm
-----	-----
Error Adjusted Leakage:	5737.9 sccm

*Identifies penetrations listed in Tech. Spec Table 3.6-1.

- 11.3 Combined leakage rate of less than 0.05 La for all upper/lower and instrument room Containment Purge penetrations when pressurized to Pa (Error Adjusted Leakage < 4,656 sccm).

Containment Purge Penet. Leakage:	4074.0 sccm
+ Root Sum Squared Instr. Error:	44.7 sccm
-----	-----
Error Adjusted Leakage:	4118.7 sccm

Data Input By:

Jerry M. Phillips, 12-21-87

Data Input Verified By:

Ronald D. Fitch, 12-21-87

APPENDIX G

TEST DATA

Test Data Printouts

- Mass Point Leak Rate Analysis (4 pages)
- Calculated Values By Reading (28 pages)
- Instrument Calibrated Data (64 pages)
- Calibration Data By Point (3 pages)

Significant Reading #s

- Temperature Stabilization: Readings #36 to 52
- Pressure Decay Test: Readings #52 to 148
- Verification Test: Readings #204 to 226

NOTE: Dewpoint Temperature Sensors 57, 58, and 61 were installed as backups only and were not used in the leakage rate calculations.

MASS POINT LEAK RATE ANALYSIS PAGE 1

RDG	TIME (MINUTES)	NORM. MASS	MEASURED LEAK (WT %/DAY)	UCL LEAK (WT %/DAY)
52	.00	1.000000	-	-
53	14.98	1.000025	-.244136	-
54	29.98	1.000117	-.561861	1.006711
55	44.98	1.000001	-.091892	.741501
56	59.98	1.000090	-.149988	.243170
57	74.98	1.000035	-.069694	.183407
58	89.97	1.000038	-.036996	.136404
59	104.97	.999973	.032139	.178941
60	119.97	.999944	.081073	.204184
61	134.97	.999979	.082918	.179329
62	149.97	1.000034	.056348	.138885
63	164.97	1.000090	.016845	.096338
64	179.95	.999948	.038265	.108442
65	194.95	.999873	.071284	.139925
66	209.95	1.000025	.054464	.115983
67	224.95	.999913	.065704	.120415
68	240.40	1.000014	.053195	.102821
69	255.40	.999913	.060457	.104956
70	270.40	.999912	.064900	.104796
71	285.40	.999880	.071568	.107959
72	300.42	.999979	.063261	.097109
73	316.23	.999937	.060934	.091684
74	331.23	.999864	.066206	.094679
75	346.23	.999908	.065360	.091404
76	361.23	.999979	.057762	.082816
77	376.25	.999943	.054242	.077581
78	391.25	.999906	.053890	.075463
79	406.25	.999801	.060590	.081649
80	421.25	.999812	.064884	.084910
81	436.25	.999822	.067295	.086110
82	451.25	.999893	.064767	.082521
83	466.27	.999873	.063413	.080092
84	481.27	.999815	.064921	.080642
85	496.28	.999857	.063826	.078647
86	511.28	.999863	.062318	.076357
87	526.28	.999865	.060700	.074042
88	541.28	.999819	.060953	.073566
89	556.30	.999778	.062497	.074532
90	571.30	.999777	.063619	.075082
91	586.30	.999847	.061906	.072917

MASS POINT LEAK RATE ANALYSIS PAGE 2

RDB	TIME (MINUTES)	NORM. MASS	MEASURED LEAK (WT %/DAY)	UCL LEAK (WT %/DAY)
92	601.30	.999758	.063173	.073713
93	616.32	.999805	.062572	.072621
94	631.32	.999787	.062391	.071969
95	645.32	.999657	.065805	.075528
96	661.32	.999756	.065872	.075158
97	676.33	.999695	.067369	.076366
98	691.33	.999811	.065533	.074325
99	706.35	.999757	.065084	.073518
100	721.35	.999710	.065623	.073726
101	736.35	.999959	.060351	.069657
102	751.37	.999966	.055388	.065537
103	766.37	.999958	.051022	.061655
104	781.37	.999693	.052337	.062644
105	796.38	.999803	.051280	.061255
106	811.40	.999652	.053048	.062808
107	826.40	.999463	.057926	.068451
108	841.42	.999635	.059213	.069442
109	856.43	.999647	.060071	.069980
110	871.48	.999731	.059385	.068978
111	886.50	.999914	.055794	.065692
112	901.50	.999878	.053004	.062947
113	916.52	.999767	.052027	.061693
114	931.53	.999762	.051135	.060532
115	946.53	.999773	.050096	.059252
116	961.55	.999870	.047783	.056932
117	976.57	.999765	.046971	.055875
118	991.58	.999579	.048510	.057273
119	1006.60	.999665	.048802	.057311
120	1021.60	.999561	.050244	.058620
121	1036.63	.999591	.051162	.059345
122	1051.65	.999765	.049994	.058024
123	1066.67	.999552	.051190	.059081
124	1081.67	.999734	.050297	.058018
125	1096.68	.999722	.049542	.057088
126	1111.70	.999647	.049549	.056893
127	1126.72	.999742	.048577	.055787
128	1141.73	.999838	.046713	.053960
129	1156.75	.999663	.046567	.053629
130	1171.77	.999599	.046971	.053863
131	1186.78	.999617	.047148	.053870

MASS POINT LEAK RATE ANALYSIS PAGE 3

RDG	TIME (MINUTES)	NORM. MASS	MEASURED LEAK (WT %/DAY)	UCL LEAK (WT %/DAY)
132	1201.80	.999442	.048765	.055526
133	1216.82	.999579	.049098	.055681
134	1231.83	.999534	.049720	.056171
135	1246.85	.999678	.049098	.055423
136	1261.85	.999550	.049487	.055673
137	1276.87	.999575	.049616	.055659
138	1291.88	.999674	.048954	.054852
139	1306.90	.999558	.049151	.054956
140	1321.90	.999645	.048674	.054366
141	1336.92	.999668	.048027	.053627
142	1351.95	.999817	.046366	.052070
143	1366.95	.999682	.045685	.051302
144	1381.98	.999601	.045554	.051051
145	1397.00	.999645	.045117	.050513
146	1412.02	.999642	.044656	.049956
147	1427.02	.999515	.045014	.050215
148	1442.03	.999458	.045669	.050801
149	1457.05	.999535	.045798	.050827
150	1472.07	.999537	.045683	.050810
151	1487.08	.999476	.046260	.051123
152	1502.10	.999547	.046231	.050977
153	1517.13	.999573	.046014	.050672
154	1532.15	.999478	.046296	.050873
155	1547.18	.999448	.046396	.051199
156	1562.18	.999477	.046897	.051318
157	1577.20	.999458	.047160	.051505
158	1592.22	.999488	.047233	.051466
159	1607.23	.999383	.047783	.052007
160	1622.25	.999491	.047774	.051914
161	1637.27	.999485	.047767	.051831
162	1652.30	.999464	.047742	.051731
163	1667.32	.999446	.047864	.051786
164	1682.33	.999400	.048165	.052028
165	1697.35	.999439	.048258	.052054
166	1712.37	.999351	.048706	.052460
167	1727.38	.999383	.048972	.052670
168	1742.40	.999465	.048864	.052500
169	1757.45	.999391	.049040	.052618
170	1772.47	.999437	.049002	.052520
171	1787.48	.999450	.048895	.052356

MASS POINT LEAK RATE ANALYSIS PAGE

RDG	TIME (MINUTES)	NORM. MASS	MEASURED LEAK (WT %/DAY)	UCL LEAK (WT %/DAY)
172	1802.50	.999369	.049090	.052498
173	1817.52	.999430	.049023	.052376
174	1832.55	.999260	.049578	.052919
175	1847.57	.999289	.049982	.053291
176	1862.60	.999248	.050497	.053790
177	1877.62	.999249	.050967	.054239
178	1892.65	.999192	.051598	.054874
179	1907.67	.999326	.051714	.054941
180	1922.68	.999370	.051656	.054832
181	1937.70	.999319	.051753	.054882
182	1952.73	.999422	.051485	.054577
183	1967.77	.999404	.051271	.054322
184	1982.78	.999246	.051559	.054578
185	1997.80	.999276	.051721	.054698
186	2012.83	.999488	.051194	.054170
187	2027.85	.999468	.050736	.053700
188	2042.87	.999209	.051069	.054007
189	2057.88	.999151	.051546	.054477
190	2072.92	.999322	.051481	.054371
191	2087.93	.999203	.051751	.054611
192	2102.97	.999212	.051969	.054795
193	2117.98	.999303	.051905	.054692
194	2133.00	.999194	.052132	.054889
195	2148.02	.999183	.052364	.055091
196	2163.03	.999180	.052581	.055279
197	2178.05	.999181	.052771	.055438
198	2193.08	.999279	.052679	.055311
199	2208.12	.999158	.052893	.055497
200	2223.13	.999093	.053251	.055842
201	2238.17	.999071	.053635	.056219
202	2254.77	.999175	.053730	.056280
203	2269.80	.999209	.053724	.056241
204	2284.83	.999099	.053973	.056468

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
1	8:35:30	LOWER CONTAINMENT	23606.47	76.753	.3383	15.1060
		UPPER CONTAINMENT	52477.68	70.710	.3113	15.0970
		ICE CONDENSER	13619.58	10.599	.0356	15.1000
		TOTAL	89703.73			
2	8:50:29	LOWER CONTAINMENT	23619.68	76.735	.3375	15.1130
		UPPER CONTAINMENT	52508.56	70.641	.3105	15.1030
		ICE CONDENSER	13627.55	10.548	.0354	15.1070
		TOTAL	89755.79			
3	9: 5:28	LOWER CONTAINMENT	23850.94	76.936	.3453	15.2710
		UPPER CONTAINMENT	53014.78	71.107	.3138	15.2620
		ICE CONDENSER	13753.75	11.131	.0360	15.2660
		TOTAL	90619.47			
4	9:20:28	LOWER CONTAINMENT	24285.12	77.005	.3466	15.5460
		UPPER CONTAINMENT	53914.31	71.602	.3200	15.5360
		ICE CONDENSER	13998.22	11.267	.0358	15.5410
		TOTAL	92197.65			
5	9:35:28	LOWER CONTAINMENT	24704.59	77.185	.3469	15.8140
		UPPER CONTAINMENT	54824.02	71.909	.3243	15.8060
		ICE CONDENSER	14238.75	11.317	.0357	15.8090
		TOTAL	93767.36			
6	9:50:27	LOWER CONTAINMENT	25216.27	77.335	.3481	16.1400
		UPPER CONTAINMENT	55948.08	72.046	.3278	16.1310
		ICE CONDENSER	14536.69	11.185	.0361	16.1350
		TOTAL	95701.04			
7	10: 5:27	LOWER CONTAINMENT	25965.36	77.568	.3480	16.6160
		UPPER CONTAINMENT	57544.85	72.671	.3326	16.6060
		ICE CONDENSER	14959.98	11.366	.0360	16.6100
		TOTAL	98470.20			
8	10:20:26	LOWER CONTAINMENT	26707.78	77.663	.3479	17.0840
		UPPER CONTAINMENT	59150.49	72.995	.3354	17.0730
		ICE CONDENSER	15380.96	11.404	.0362	17.0780
		TOTAL	101239.23			
9	10:35:25	LOWER CONTAINMENT	27431.95	77.805	.3495	17.5440
		UPPER CONTAINMENT	60747.91	73.183	.3373	17.5330
		ICE CONDENSER	15793.79	11.467	.0365	17.5380
		TOTAL	103973.65			
10	10:50:25	LOWER CONTAINMENT	28147.80	77.917	.3491	17.9960
		UPPER CONTAINMENT	62327.86	73.306	.3380	17.9850
		ICE CONDENSER	16200.86	11.458	.0367	17.9890
		TOTAL	106676.52			

CALCULATED VALUES BY READING PAGE

RDG	TIME		MASS	TEMP	VAP	PRESS
11	11: 5:24	LOWER CONTAINMENT	28868.97	77.988	.3516	18.4530
		UPPER CONTAINMENT	63932.79	73.366	.3396	18.4430
		ICE CONDENSER	16614.65	11.448	.0366	18.4470
		TOTAL	109416.41			
12	11:20:23	LOWER CONTAINMENT	29591.61	78.104	.3525	18.9110
		UPPER CONTAINMENT	65515.91	73.527	.3397	18.8970
		ICE CONDENSER	17024.94	11.505	.0367	18.9040
		TOTAL	112132.46			
13	11:35:23	LOWER CONTAINMENT	30324.80	78.108	.3535	19.3720
		UPPER CONTAINMENT	67129.11	73.641	.3407	19.3590
		ICE CONDENSER	17443.67	11.397	.0371	19.3640
		TOTAL	114897.58			
14	11:50:22	LOWER CONTAINMENT	31063.64	78.165	.3521	19.8360
		UPPER CONTAINMENT	68761.51	73.739	.3406	19.8250
		ICE CONDENSER	17858.47	11.503	.0370	19.8280
		TOTAL	117683.62			
15	12: 5:22	LOWER CONTAINMENT	31795.69	78.310	.3546	20.3030
		UPPER CONTAINMENT	70365.69	73.935	.3417	20.2880
		ICE CONDENSER	18274.03	11.608	.0370	20.2930
		TOTAL	120435.41			
16	12:20:22	LOWER CONTAINMENT	32537.83	78.364	.3539	20.7700
		UPPER CONTAINMENT	72003.17	74.038	.3416	20.7560
		ICE CONDENSER	18692.72	11.693	.0372	20.7610
		TOTAL	123233.71			
17	12:35:21	LOWER CONTAINMENT	33282.67	78.395	.3553	21.2400
		UPPER CONTAINMENT	73637.77	74.156	.3416	21.2240
		ICE CONDENSER	19112.66	11.749	.0370	21.2290
		TOTAL	126033.10			
18	12:50:21	LOWER CONTAINMENT	34012.40	78.501	.3552	21.7020
		UPPER CONTAINMENT	75259.45	74.241	.3423	21.6880
		ICE CONDENSER	19529.61	11.786	.0370	21.6930
		TOTAL	128801.47			
19	13: 5:21	LOWER CONTAINMENT	34750.23	78.523	.3553	22.1660
		UPPER CONTAINMENT	76897.27	74.214	.3428	22.1520
		ICE CONDENSER	19944.86	11.880	.0372	22.1580
		TOTAL	131592.36			
20	13:20:21	LOWER CONTAINMENT	35481.15	78.563	.3539	22.6250
		UPPER CONTAINMENT	78513.88	74.259	.3405	22.6100
		ICE CONDENSER	20354.02	11.906	.0372	22.6130
		TOTAL	134349.06			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
21	13:35:20	LOWER CONTAINMENT	36219.92	78.626	.3535	23.0910
		UPPER CONTAINMENT	80119.95	74.400	.3409	23.0720
		ICE CONDENSER	20770.71	11.957	.0375	23.0780
		TOTAL	137110.58			
22	13:50:20	LOWER CONTAINMENT	36939.84	78.664	.3459	23.5370
		UPPER CONTAINMENT	81699.37	74.318	.3443	23.5200
		ICE CONDENSER	21171.80	12.001	.0373	23.5250
		TOTAL	139811.21			
23	14: 5:20	LOWER CONTAINMENT	37680.97	78.578	.3354	23.9880
		UPPER CONTAINMENT	83322.57	74.167	.3426	23.9720
		ICE CONDENSER	21575.72	12.077	.0374	23.9770
		TOTAL	142579.26			
24	14:20:20	LOWER CONTAINMENT	38415.09	78.616	.3269	24.4420
		UPPER CONTAINMENT	84921.98	74.126	.3439	24.4250
		ICE CONDENSER	21980.29	12.158	.0373	24.4300
		TOTAL	145317.35			
25	14:35:20	LOWER CONTAINMENT	39097.98	78.694	.3256	24.8730
		UPPER CONTAINMENT	86445.36	74.113	.3425	24.8550
		ICE CONDENSER	22361.11	12.311	.0376	24.8610
		TOTAL	147904.45			
26	14:50:20	LOWER CONTAINMENT	39825.67	78.713	.3229	25.3280
		UPPER CONTAINMENT	88060.64	74.109	.3407	25.3110
		ICE CONDENSER	22770.50	12.357	.0377	25.3180
		TOTAL	150656.81			
27	15: 5:19	LOWER CONTAINMENT	40548.26	78.714	.3202	25.7790
		UPPER CONTAINMENT	89651.53	74.096	.3402	25.7610
		ICE CONDENSER	23168.59	12.521	.0378	25.7690
		TOTAL	153368.38			
28	15:20:19	LOWER CONTAINMENT	41274.73	78.688	.3173	26.2310
		UPPER CONTAINMENT	91259.15	74.076	.3383	26.2140
		ICE CONDENSER	23569.73	12.638	.0378	26.2210
		TOTAL	156103.61			
29	15:35:19	LOWER CONTAINMENT	41988.45	78.759	.3147	26.6800
		UPPER CONTAINMENT	92822.20	74.169	.3385	26.6620
		ICE CONDENSER	23970.31	12.688	.0380	26.6690
		TOTAL	158780.97			
30	15:50:19	LOWER CONTAINMENT	42712.07	78.724	.3131	27.1310
		UPPER CONTAINMENT	94429.56	74.157	.3353	27.1140
		ICE CONDENSER	24380.06	12.645	.0382	27.1220
		TOTAL	161521.70			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
31	16: 5:19	LOWER CONTAINMENT	43429.90	78.708	.3092	27.5770
		UPPER CONTAINMENT	96025.02	74.128	.3333	27.5630
		ICE CONDENSER	24782.10	12.668	.0383	27.5700
		TOTAL	164237.02			
32	16:20:19	LOWER CONTAINMENT	44144.59	78.748	.3074	28.0260
		UPPER CONTAINMENT	97599.23	74.161	.3322	28.0100
		ICE CONDENSER	25178.57	12.777	.0383	28.0170
		TOTAL	166922.39			
33	16:35:19	LOWER CONTAINMENT	44875.02	78.673	.3047	28.4780
		UPPER CONTAINMENT	99208.02	74.148	.3287	28.4620
		ICE CONDENSER	25584.97	12.761	.0387	28.4680
		TOTAL	169668.01			
34	16:50:19	LOWER CONTAINMENT	45604.17	78.280	.3098	28.9200
		UPPER CONTAINMENT	100760.72	74.159	.3278	28.9020
		ICE CONDENSER	25979.43	12.819	.0389	28.9100
		TOTAL	172344.32			
35	17: 5:19	LOWER CONTAINMENT	46332.80	77.921	.3131	29.3610
		UPPER CONTAINMENT	102334.96	74.116	.3267	29.3450
		ICE CONDENSER	26374.69	12.873	.0393	29.3530
		TOTAL	175042.45			
36	17:20:19	LOWER CONTAINMENT	46762.50	77.113	.3131	29.6060
		UPPER CONTAINMENT	103265.46	73.783	.3241	29.5880
		ICE CONDENSER	26598.89	12.747	.0390	29.5940
		TOTAL	176626.85			
37	17:35:19	LOWER CONTAINMENT	46719.76	77.189	.3184	29.5690
		UPPER CONTAINMENT	103303.73	73.066	.3176	29.5530
		ICE CONDENSER	26568.58	12.719	.0394	29.5590
		TOTAL	176592.06			
38	17:50:19	LOWER CONTAINMENT	46710.32	76.944	.3166	29.5480
		UPPER CONTAINMENT	103336.25	72.603	.3108	29.5300
		ICE CONDENSER	26550.17	12.715	.0391	29.5380
		TOTAL	176596.74			
39	18: 5:19	LOWER CONTAINMENT	46720.86	76.785	.3097	29.5390
		UPPER CONTAINMENT	103380.10	72.341	.3048	29.5220
		ICE CONDENSER	26541.77	12.698	.0395	29.5280
		TOTAL	176642.73			
40	18:20:18	LOWER CONTAINMENT	46701.97	76.763	.3107	29.5270
		UPPER CONTAINMENT	103368.57	72.274	.3008	29.5110
		ICE CONDENSER	26524.01	12.854	.0395	29.5180
		TOTAL	176594.54			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
41	18:35:18	LOWER CONTAINMENT	46704.92	76.600	.3077	29.5170
		UPPER CONTAINMENT	103392.69	72.049	.2963	29.5010
		ICE CONDENSER	26516.28	12.795	.0398	29.5060
		TOTAL	176613.90			
42	18:50:17	LOWER CONTAINMENT	46702.05	76.594	.3059	29.5130
		UPPER CONTAINMENT	103401.27	71.988	.2922	29.4960
		ICE CONDENSER	26508.99	12.861	.0398	29.5020
		TOTAL	176612.31			
43	19: 5:17	LOWER CONTAINMENT	46699.65	76.533	.2987	29.5010
		UPPER CONTAINMENT	103383.99	71.932	.2862	29.4840
		ICE CONDENSER	26500.82	12.844	.0399	29.4920
		TOTAL	176584.45			
44	19:20:17	LOWER CONTAINMENT	46712.33	76.391	.2955	29.4980
		UPPER CONTAINMENT	103409.93	71.784	.2850	29.4800
		ICE CONDENSER	26494.83	12.887	.0399	29.4880
		TOTAL	176617.09			
45	19:35:17	LOWER CONTAINMENT	46715.22	76.355	.2907	29.4930
		UPPER CONTAINMENT	103415.53	71.738	.2809	29.4750
		ICE CONDENSER	26487.05	12.947	.0398	29.4830
		TOTAL	176617.80			
46	19:50:16	LOWER CONTAINMENT	46711.46	76.318	.2910	29.4890
		UPPER CONTAINMENT	103421.67	71.693	.2787	29.4720
		ICE CONDENSER	26482.47	12.946	.0399	29.4780
		TOTAL	176615.60			
47	20: 5:16	LOWER CONTAINMENT	46712.92	76.253	.2846	29.4800
		UPPER CONTAINMENT	103427.51	71.576	.2754	29.4640
		ICE CONDENSER	26478.00	12.901	.0397	29.4700
		TOTAL	176618.43			
48	20:20:15	LOWER CONTAINMENT	46714.46	76.267	.2789	29.4760
		UPPER CONTAINMENT	103411.48	71.624	.2723	29.4590
		ICE CONDENSER	26468.73	13.002	.0397	29.4660
		TOTAL	176594.67			
49	20:35:15	LOWER CONTAINMENT	46709.03	76.158	.2813	29.4690
		UPPER CONTAINMENT	103432.43	71.460	.2694	29.4530
		ICE CONDENSER	26464.89	12.924	.0399	29.4570
		TOTAL	176606.36			
50	20:50:15	LOWER CONTAINMENT	46718.28	76.074	.2780	29.4670
		UPPER CONTAINMENT	103435.64	71.428	.2663	29.4490
		ICE CONDENSER	26459.87	12.982	.0398	29.4550
		TOTAL	176613.79			

CALCULATED VALUES BY READING PAGE

RDG	TIME		MASS	TEMP	VAP	PRESS
51	21: 5:14	LOWER CONTAINMENT	46716.14	76.059	.2752	29.4620
		UPPER CONTAINMENT	103434.97	71.393	.2634	29.4440
		ICE CONDENSER	26449.79	13.082	.0398	29.4500
		TOTAL	176600.90			
52	21:20:14	LOWER CONTAINMENT	46718.65	76.043	.2715	29.4590
		UPPER CONTAINMENT	103433.91	71.366	.2612	29.4400
		ICE CONDENSER	26444.02	13.133	.0401	29.4470
		TOTAL	176596.59			
53	21:35:13	LOWER CONTAINMENT	46718.10	76.004	.2710	29.4560
		UPPER CONTAINMENT	103439.30	71.323	.2580	29.4360
		ICE CONDENSER	26443.67	13.078	.0398	29.4430
		TOTAL	176501.07			
54	21:50:13	LOWER CONTAINMENT	46721.78	75.893	.2697	29.4510
		UPPER CONTAINMENT	103452.02	71.243	.2548	29.4320
		ICE CONDENSER	26443.44	13.011	.0403	29.4390
		TOTAL	176617.24			
55	22: 5:13	LOWER CONTAINMENT	46725.05	75.917	.2634	29.4480
		UPPER CONTAINMENT	103435.77	71.284	.2532	29.4280
		ICE CONDENSER	26436.01	13.061	.0404	29.4340
		TOTAL	176596.83			
56	22:20:13	LOWER CONTAINMENT	46731.03	75.859	.2598	29.4450
		UPPER CONTAINMENT	103449.56	71.219	.2498	29.4250
		ICE CONDENSER	26431.92	13.090	.0402	29.4310
		TOTAL	176612.50			
57	22:35:13	LOWER CONTAINMENT	46727.95	75.827	.2594	29.4410
		UPPER CONTAINMENT	103445.40	71.174	.2485	29.4200
		ICE CONDENSER	26429.44	13.072	.0401	29.4270
		TOTAL	176602.79			
58	22:50:12	LOWER CONTAINMENT	46721.39	75.796	.2592	29.4350
		UPPER CONTAINMENT	103455.32	71.097	.2459	29.4160
		ICE CONDENSER	26426.66	13.021	.0403	29.4210
		TOTAL	176603.38			
59	23: 5:12	LOWER CONTAINMENT	46723.99	75.803	.2552	29.4330
		UPPER CONTAINMENT	103446.43	71.150	.2435	29.4140
		ICE CONDENSER	26421.39	13.082	.0404	29.4190
		TOTAL	176591.81			
60	23:20:12	LOWER CONTAINMENT	46725.18	75.794	.2510	29.4290
		UPPER CONTAINMENT	103443.40	71.105	.2418	29.4090
		ICE CONDENSER	26418.04	13.082	.0401	29.4150
		TOTAL	176586.62			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
61	23:35:12	LOWER CONTAINMENT	46737.02	75.755	.2480	29.4250
		UPPER CONTAINMENT	103448.14	71.045	.2388	29.4040
		ICE CONDENSER	26417.75	13.020	.0403	29.4110
		TOTAL	176592.90			
62	23:50:12	LOWER CONTAINMENT	46725.67	75.746	.2493	29.4250
		UPPER CONTAINMENT	103461.88	71.043	.2361	29.4050
		ICE CONDENSER	26414.98	13.054	.0403	29.4100
		TOTAL	176602.53			
63	0: 5:12	LOWER CONTAINMENT	46734.29	75.678	.2446	29.4220
		UPPER CONTAINMENT	103466.59	70.967	.2359	29.4020
		ICE CONDENSER	26412.18	13.048	.0407	29.4070
		TOTAL	176613.06			
64	0:20:11	LOWER CONTAINMENT	46726.70	75.727	.2437	29.4190
		UPPER CONTAINMENT	103457.03	70.999	.2328	29.3980
		ICE CONDENSER	26403.75	13.135	.0407	29.4030
		TOTAL	176587.48			
65	0:35:11	LOWER CONTAINMENT	46721.83	75.696	.2434	29.4140
		UPPER CONTAINMENT	103451.23	70.993	.2308	29.3940
		ICE CONDENSER	26401.12	13.154	.0405	29.4010
		TOTAL	176574.19			
66	0:50:11	LOWER CONTAINMENT	46732.36	75.630	.2385	29.4120
		UPPER CONTAINMENT	103466.46	70.895	.2289	29.3910
		ICE CONDENSER	26402.22	13.066	.0407	29.3970
		TOTAL	176601.04			
67	1: 5:11	LOWER CONTAINMENT	46724.48	75.689	.2382	29.4100
		UPPER CONTAINMENT	103456.25	70.960	.2272	29.3900
		ICE CONDENSER	26400.55	13.080	.0407	29.3960
		TOTAL	176581.28			
68	1:20:38	LOWER CONTAINMENT	46735.07	75.610	.2358	29.4100
		UPPER CONTAINMENT	103468.75	70.893	.2254	29.3880
		ICE CONDENSER	26395.13	13.149	.0404	29.3940
		TOTAL	176598.95			
69	1:35:38	LOWER CONTAINMENT	46730.53	75.616	.2343	29.4060
		UPPER CONTAINMENT	103460.66	70.900	.2232	29.3840
		ICE CONDENSER	26390.03	13.174	.0406	29.3900
		TOTAL	176581.22			
70	1:50:38	LOWER CONTAINMENT	46729.18	75.620	.2310	29.4020
		UPPER CONTAINMENT	103461.08	70.869	.2208	29.3800
		ICE CONDENSER	26390.72	13.116	.0404	29.3870
		TOTAL	176580.98			

CALCULATED VALUES BY READING PAGE

RDB	TIME		MASS	TEMP	VAP	PRESS
71	2: 5:38	LOWER CONTAINMENT	46723.36	75.652	.2329	29.4020
		UPPER CONTAINMENT	103462.15	70.902	.2197	29.3810
		ICE CONDENSER	26389.85	13.126	.0407	29.3870
		TOTAL	176575.36			
72	2:20:39	LOWER CONTAINMENT	46732.08	75.565	.2292	29.3990
		UPPER CONTAINMENT	103470.60	70.836	.2180	29.3780
		ICE CONDENSER	26390.14	13.076	.0405	29.3840
		TOTAL	176592.81			
73	2:36:28	LOWER CONTAINMENT	46727.87	75.570	.2285	29.3960
		UPPER CONTAINMENT	103470.41	70.849	.2163	29.3770
		ICE CONDENSER	26387.23	13.096	.0405	29.3820
		TOTAL	176585.50			
74	2:51:28	LOWER CONTAINMENT	46729.56	75.562	.2269	29.3950
		UPPER CONTAINMENT	103461.81	70.855	.2144	29.3730
		ICE CONDENSER	26381.11	13.138	.0407	29.3780
		TOTAL	176572.48			
75	3: 6:28	LOWER CONTAINMENT	46732.90	75.532	.2235	29.3920
		UPPER CONTAINMENT	103473.44	70.787	.2128	29.3710
		ICE CONDENSER	26373.93	13.252	.0406	29.3770
		TOTAL	176580.28			
76	3:21:28	LOWER CONTAINMENT	46735.93	75.602	.2228	29.3970
		UPPER CONTAINMENT	103485.33	70.823	.2115	29.3750
		ICE CONDENSER	26371.66	13.324	.0406	29.3790
		TOTAL	176592.92			
77	3:36:29	LOWER CONTAINMENT	46733.82	75.528	.2201	29.3890
		UPPER CONTAINMENT	103476.97	70.770	.2098	29.3680
		ICE CONDENSER	26375.79	13.173	.0404	29.3740
		TOTAL	176596.58			
78	3:51:29	LOWER CONTAINMENT	46733.57	75.525	.2204	29.3890
		UPPER CONTAINMENT	103472.26	70.799	.2085	29.3670
		ICE CONDENSER	26374.09	13.185	.0406	29.3730
		TOTAL	176579.91			
79	4: 6:29	LOWER CONTAINMENT	46728.94	75.573	.2177	29.3860
		UPPER CONTAINMENT	103462.00	70.826	.2069	29.3640
		ICE CONDENSER	26370.54	13.198	.0407	29.3700
		TOTAL	176561.49			
80	4:21:29	LOWER CONTAINMENT	46730.29	75.519	.2158	29.3820
		UPPER CONTAINMENT	103465.35	70.743	.2055	29.3590
		ICE CONDENSER	26367.70	13.180	.0410	29.3660
		TOTAL	176563.34			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
81	4:36:29	LOWER CONTAINMENT	46735.02	75.492	.2143	29.3820
		UPPER CONTAINMENT	103464.83	70.751	.2043	29.3580
		ICE CONDENSER	26365.38	13.191	.0409	29.3640
		TOTAL	176565.24			
82	4:51:29	LOWER CONTAINMENT	46732.82	75.491	.2148	29.3810
		UPPER CONTAINMENT	103477.02	70.758	.2024	29.3600
		ICE CONDENSER	26367.90	13.146	.0409	29.3640
		TOTAL	176577.74			
83	5:06:30	LOWER CONTAINMENT	46734.98	75.510	.2103	29.3790
		UPPER CONTAINMENT	103473.99	70.762	.2011	29.3580
		ICE CONDENSER	26365.21	13.161	.0409	29.3620
		TOTAL	176574.18			
84	5:21:30	LOWER CONTAINMENT	46730.51	75.495	.2110	29.3760
		UPPER CONTAINMENT	103468.61	70.730	.1993	29.3530
		ICE CONDENSER	26364.80	13.142	.0406	29.3600
		TOTAL	176563.93			
85	5:36:31	LOWER CONTAINMENT	46734.31	75.475	.2087	29.3750
		UPPER CONTAINMENT	103473.72	70.685	.1984	29.3510
		ICE CONDENSER	26363.31	13.116	.0409	29.3570
		TOTAL	176571.35			
86	5:51:31	LOWER CONTAINMENT	46734.61	75.480	.2082	29.3750
		UPPER CONTAINMENT	103476.61	70.711	.1971	29.3520
		ICE CONDENSER	26361.00	13.165	.0411	29.3580
		TOTAL	176572.47			
87	6:06:31	LOWER CONTAINMENT	46736.88	75.422	.2060	29.3710
		UPPER CONTAINMENT	103475.16	70.711	.1955	29.3500
		ICE CONDENSER	26360.71	13.127	.0411	29.3550
		TOTAL	176572.75			
88	6:21:31	LOWER CONTAINMENT	46735.59	75.454	.2050	29.3710
		UPPER CONTAINMENT	103470.06	70.721	.1944	29.3480
		ICE CONDENSER	26358.95	13.143	.0410	29.3540
		TOTAL	176564.61			
89	6:36:32	LOWER CONTAINMENT	46733.24	75.440	.2040	29.3680
		UPPER CONTAINMENT	103469.26	70.694	.1931	29.3450
		ICE CONDENSER	26354.92	13.168	.0410	29.3510
		TOTAL	176557.42			
90	6:51:32	LOWER CONTAINMENT	46734.59	75.450	.2029	29.3680
		UPPER CONTAINMENT	103468.06	70.720	.1920	29.3450
		ICE CONDENSER	26354.56	13.157	.0410	29.3500
		TOTAL	176557.21			

CALCULATED VALUES BY READING

PAGE 1

RDG	TIME		MASS	TEMP	VAP	PRESS
91	7: 6:32	LOWER CONTAINMENT	46735.11	75.423	.2020	29.3660
		UPPER CONTAINMENT	103478.02	70.653	.1909	29.3430
		ICE CONDENSER	26356.42	13.092	.0410	29.3480
		TOTAL	176569.55			
92	7:21:32	LOWER CONTAINMENT	46731.47	75.457	.2015	29.3650
		UPPER CONTAINMENT	103473.26	70.685	.1895	29.3420
		ICE CONDENSER	26349.14	13.207	.0410	29.3470
		TOTAL	176553.88			
93	7:36:33	LOWER CONTAINMENT	46731.79	75.442	.1991	29.3620
		UPPER CONTAINMENT	103479.77	70.643	.1880	29.3400
		ICE CONDENSER	26350.58	13.167	.0409	29.3460
		TOTAL	176562.14			
94	7:51:33	LOWER CONTAINMENT	46736.92	75.435	.1972	29.3630
		UPPER CONTAINMENT	103471.75	70.682	.1871	29.3390
		ICE CONDENSER	26350.34	13.157	.0407	29.3450
		TOTAL	176559.01			
95	8: 6:33	LOWER CONTAINMENT	46729.67	75.413	.1980	29.3580
		UPPER CONTAINMENT	103458.49	70.695	.1861	29.3350
		ICE CONDENSER	26347.93	13.149	.0409	29.3420
		TOTAL	176536.09			
96	8:21:33	LOWER CONTAINMENT	46736.37	75.474	.1935	29.3610
		UPPER CONTAINMENT	103469.05	70.697	.1850	29.3370
		ICE CONDENSER	26348.02	13.181	.0408	29.3440
		TOTAL	176553.44			
97	8:36:34	LOWER CONTAINMENT	46729.40	75.476	.1957	29.3590
		UPPER CONTAINMENT	103468.86	70.661	.1841	29.3340
		ICE CONDENSER	26344.39	13.181	.0408	29.3400
		TOTAL	176542.65			
98	8:51:34	LOWER CONTAINMENT	46741.56	75.370	.1919	29.3570
		UPPER CONTAINMENT	103476.56	70.631	.1825	29.3330
		ICE CONDENSER	26345.17	13.136	.0408	29.3380
		TOTAL	176563.29			
99	9: 6:35	LOWER CONTAINMENT	46738.13	75.445	.1920	29.3590
		UPPER CONTAINMENT	103479.51	70.671	.1815	29.3350
		ICE CONDENSER	26335.98	13.333	.0408	29.3400
		TOTAL	176553.63			
100	9:21:35	LOWER CONTAINMENT	46737.12	75.491	.1911	29.3600
		UPPER CONTAINMENT	103474.74	70.728	.1807	29.3360
		ICE CONDENSER	26333.53	13.376	.0409	29.3400
		TOTAL	176545.38			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
101	9:36:35	LOWER CONTAINMENT	46754.79	75.390	.1895	29.3640
		UPPER CONTAINMENT	103483.35	70.793	.1797	29.3410
		ICE CONDENSER	26351.15	13.170	.0410	29.3470
		TOTAL	176589.29			
102	9:51:36	LOWER CONTAINMENT	46759.99	75.466	.1901	29.3720
		UPPER CONTAINMENT	103475.42	70.998	.1787	29.3490
		ICE CONDENSER	26355.10	13.215	.0408	29.3540
		TOTAL	176590.51			
103	10: 6:36	LOWER CONTAINMENT	46763.53	75.480	.1862	29.3710
		UPPER CONTAINMENT	103471.21	71.032	.1780	29.3490
		ICE CONDENSER	26354.36	13.243	.0409	29.3550
		TOTAL	176589.09			
104	10:21:36	LOWER CONTAINMENT	46752.60	75.570	.1881	29.3710
		UPPER CONTAINMENT	103440.47	71.209	.1769	29.3490
		ICE CONDENSER	26349.26	13.334	.0410	29.3550
		TOTAL	176542.32			
105	10:36:37	LOWER CONTAINMENT	46757.02	75.507	.1868	29.3690
		UPPER CONTAINMENT	103457.63	71.103	.1759	29.3470
		ICE CONDENSER	26347.09	13.310	.0408	29.3510
		TOTAL	176561.74			
106	10:51:38	LOWER CONTAINMENT	46752.11	75.501	.1841	29.3630
		UPPER CONTAINMENT	103444.27	71.062	.1749	29.3400
		ICE CONDENSER	26338.71	13.373	.0413	29.3460
		TOTAL	176535.09			
107	11: 6:38	LOWER CONTAINMENT	46741.48	75.562	.1855	29.3610
		UPPER CONTAINMENT	103431.84	71.083	.1743	29.3370
		ICE CONDENSER	26328.47	13.511	.0412	29.3430
		TOTAL	176501.79			
108	11:21:39	LOWER CONTAINMENT	46749.09	75.488	.1837	29.3600
		UPPER CONTAINMENT	103459.74	70.939	.1734	29.3360
		ICE CONDENSER	26323.37	13.586	.0412	29.3420
		TOTAL	176532.20			
109	11:36:40	LOWER CONTAINMENT	46744.46	75.481	.1830	29.3560
		UPPER CONTAINMENT	103473.12	70.868	.1725	29.3350
		ICE CONDENSER	26316.69	13.641	.0412	29.3380
		TOTAL	176534.26			
110	11:51:43	LOWER CONTAINMENT	46750.02	75.448	.1824	29.3570
		UPPER CONTAINMENT	103484.82	70.819	.1719	29.3350
		ICE CONDENSER	26314.21	13.680	.0416	29.3380
		TOTAL	176549.05			

CALCULATED VALUES BY READING PAGE 1

RDG	TIME		MASS	TEMP	VAP	PRESS
111	12: 6:44	LOWER CONTAINMENT	46760.12	75.357	.1800	29.3560
		UPPER CONTAINMENT	103506.55	70.674	.1707	29.3320
		ICE CONDENSER	26314.72	13.652	.0417	29.3370
		TOTAL	176581.40			
112	12:21:44	LOWER CONTAINMENT	46758.43	75.380	.1818	29.3580
		UPPER CONTAINMENT	103508.68	70.711	.1701	29.3340
		ICE CONDENSER	26307.31	13.795	.0415	29.3380
		TOTAL	176575.03			
113	12:36:45	LOWER CONTAINMENT	46754.24	75.424	.1780	29.3540
		UPPER CONTAINMENT	103499.32	70.681	.1634	29.3290
		ICE CONDENSER	26301.85	13.854	.0415	29.3350
		TOTAL	176555.41			
114	12:51:46	LOWER CONTAINMENT	46750.66	75.449	.1799	29.3550
		UPPER CONTAINMENT	103504.29	70.693	.1683	29.3300
		ICE CONDENSER	26299.57	13.864	.0415	29.3330
		TOTAL	176554.52			
115	13: 6:46	LOWER CONTAINMENT	46759.70	75.514	.1767	29.3610
		UPPER CONTAINMENT	103495.87	70.876	.1677	29.3370
		ICE CONDENSER	26300.92	14.000	.0416	29.3430
		TOTAL	176556.49			
116	13:21:47	LOWER CONTAINMENT	46778.57	75.518	.1767	29.3730
		UPPER CONTAINMENT	103491.08	71.115	.1668	29.3480
		ICE CONDENSER	26303.94	14.121	.0417	29.3540
		TOTAL	176573.59			
117	13:36:48	LOWER CONTAINMENT	46777.85	75.422	.1764	29.3670
		UPPER CONTAINMENT	103476.47	71.092	.1662	29.3420
		ICE CONDENSER	26300.77	14.085	.0415	29.3480
		TOTAL	176555.08			
118	13:51:49	LOWER CONTAINMENT	46762.94	75.555	.1755	29.3640
		UPPER CONTAINMENT	103467.99	71.166	.1655	29.3430
		ICE CONDENSER	26291.35	14.222	.0415	29.3460
		TOTAL	176522.29			
119	14: 6:50	LOWER CONTAINMENT	46764.44	75.482	.1745	29.3600
		UPPER CONTAINMENT	103484.87	71.006	.1646	29.3380
		ICE CONDENSER	26288.15	14.194	.0418	29.3410
		TOTAL	176537.46			
120	14:21:50	LOWER CONTAINMENT	46755.00	75.569	.1756	29.3600
		UPPER CONTAINMENT	103482.87	70.989	.1641	29.3360
		ICE CONDENSER	26281.27	14.322	.0415	29.3410
		TOTAL	176519.14			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
121	14:36:52	LOWER CONTAINMENT	46752.71	75.611	.1748	29.3600
		UPPER CONTAINMENT	103494.67	70.997	.1633	29.3390
		ICE CONDENSER	26277.01	14.430	.0416	29.3430
		TOTAL	176524.39			
122	14:51:53	LOWER CONTAINMENT	46761.35	75.536	.1725	29.3590
		UPPER CONTAINMENT	103515.33	70.867	.1627	29.3370
		ICE CONDENSER	26278.36	14.403	.0418	29.3430
		TOTAL	176555.03			
123	15: 6:54	LOWER CONTAINMENT	46751.43	75.565	.1731	29.3550
		UPPER CONTAINMENT	103495.44	70.922	.1622	29.3340
		ICE CONDENSER	26270.56	14.479	.0417	29.3390
		TOTAL	176517.44			
124	15:21:54	LOWER CONTAINMENT	46760.69	75.480	.1719	29.3550
		UPPER CONTAINMENT	103519.32	70.832	.1615	29.3350
		ICE CONDENSER	26269.59	14.497	.0418	29.3390
		TOTAL	176549.61			
125	15:36:55	LOWER CONTAINMENT	46761.12	75.476	.1709	29.3540
		UPPER CONTAINMENT	103516.42	70.802	.1609	29.3320
		ICE CONDENSER	26269.98	14.445	.0415	29.3360
		TOTAL	176547.51			
126	15:51:56	LOWER CONTAINMENT	46754.68	75.504	.1714	29.3520
		UPPER CONTAINMENT	103511.61	70.789	.1600	29.3290
		ICE CONDENSER	26268.02	14.441	.0420	29.3340
		TOTAL	176534.30			
127	16: 6:57	LOWER CONTAINMENT	46761.03	75.462	.1697	29.3520
		UPPER CONTAINMENT	103524.68	70.731	.1595	29.3290
		ICE CONDENSER	26265.28	14.459	.0419	29.3320
		TOTAL	176550.98			
128	16:21:58	LOWER CONTAINMENT	46765.52	75.395	.1686	29.3500
		UPPER CONTAINMENT	103535.69	70.654	.1586	29.3270
		ICE CONDENSER	26266.69	14.416	.0420	29.3310
		TOTAL	176567.90			
129	16:36:59	LOWER CONTAINMENT	46756.42	75.434	.1691	29.3470
		UPPER CONTAINMENT	103518.28	70.678	.1582	29.3230
		ICE CONDENSER	26262.46	14.445	.0419	29.3280
		TOTAL	176537.15			
130	16:52: 0	LOWER CONTAINMENT	46756.49	75.501	.1674	29.3490
		UPPER CONTAINMENT	103509.73	70.754	.1574	29.3240
		ICE CONDENSER	26259.62	14.510	.0420	29.3290
		TOTAL	176525.84			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
131	17: 7: 1	LOWER CONTAINMENT	46758.19	75.436	.1659	29.3450
		UPPER CONTAINMENT	103511.71	70.720	.1568	29.3220
		ICE CONDENSER	26258.98	14.468	.0423	29.3260
		TOTAL	176528.89			
132	17:22: 2	LOWER CONTAINMENT	46750.10	75.566	.1669	29.3480
		UPPER CONTAINMENT	103493.61	70.834	.1566	29.3230
		ICE CONDENSER	26254.25	14.605	.0422	29.3290
		TOTAL	176497.97			
133	17:37: 3	LOWER CONTAINMENT	46751.11	75.530	.1662	29.3460
		UPPER CONTAINMENT	103515.05	70.735	.1560	29.3230
		ICE CONDENSER	26256.16	14.553	.0423	29.3280
		TOTAL	176522.32			
134	17:52: 4	LOWER CONTAINMENT	46751.22	75.523	.1655	29.3450
		UPPER CONTAINMENT	103509.68	70.756	.1553	29.3220
		ICE CONDENSER	26253.44	14.587	.0422	29.3270
		TOTAL	176514.33			
135	18: 7: 5	LOWER CONTAINMENT	46753.11	75.497	.1647	29.3440
		UPPER CONTAINMENT	103531.14	70.675	.1547	29.3230
		ICE CONDENSER	26255.47	14.566	.0422	29.3280
		TOTAL	176539.73			
136	18:22: 5	LOWER CONTAINMENT	46750.52	75.478	.1644	29.3410
		UPPER CONTAINMENT	103517.07	70.682	.1543	29.3190
		ICE CONDENSER	26249.51	14.609	.0422	29.3240
		TOTAL	176517.11			
137	18:37: 6	LOWER CONTAINMENT	46748.04	75.491	.1643	29.3400
		UPPER CONTAINMENT	103524.49	70.658	.1536	29.3190
		ICE CONDENSER	26249.02	14.601	.0423	29.3230
		TOTAL	176521.55			
138	18:52: 7	LOWER CONTAINMENT	46753.12	75.463	.1646	29.3420
		UPPER CONTAINMENT	103533.63	70.620	.1531	29.3190
		ICE CONDENSER	26252.29	14.556	.0424	29.3240
		TOTAL	176539.04			
139	19: 7: 8	LOWER CONTAINMENT	46754.44	75.515	.1619	29.3430
		UPPER CONTAINMENT	103517.06	70.729	.1527	29.3200
		ICE CONDENSER	26247.03	14.651	.0424	29.3240
		TOTAL	176518.53			
140	19:22: 8	LOWER CONTAINMENT	46755.41	75.489	.1618	29.3420
		UPPER CONTAINMENT	103532.85	70.642	.1521	29.3190
		ICE CONDENSER	26245.65	14.659	.0425	29.3230
		TOTAL	176533.90			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
141	19:37: 9	LOWER CONTAINMENT	46759.14	75.467	.1616	29.3430
		UPPER CONTAINMENT	103535.83	70.632	.1518	29.3190
		ICE CONDENSER	26243.06	14.722	.0424	29.3240
		TOTAL	176538.04			
142	19:52:11	LOWER CONTAINMENT	46761.70	75.460	.1604	29.3430
		UPPER CONTAINMENT	103554.70	70.565	.1512	29.3200
		ICE CONDENSER	26247.92	14.653	.0423	29.3250
		TOTAL	176564.32			
143	20: 7:11	LOWER CONTAINMENT	46757.11	75.471	.1607	29.3410
		UPPER CONTAINMENT	103541.62	70.590	.1505	29.3170
		ICE CONDENSER	26241.78	14.680	.0425	29.3200
		TOTAL	176540.51			
144	20:22:13	LOWER CONTAINMENT	46756.71	75.506	.1600	29.3420
		UPPER CONTAINMENT	103527.85	70.665	.1502	29.3170
		ICE CONDENSER	26241.48	14.702	.0424	29.3210
		TOTAL	176526.04			
145	20:37:14	LOWER CONTAINMENT	46760.12	75.514	.1595	29.3440
		UPPER CONTAINMENT	103533.16	70.666	.1497	29.3180
		ICE CONDENSER	26240.53	14.738	.0423	29.3220
		TOTAL	176533.82			
146	20:52:15	LOWER CONTAINMENT	46757.06	75.478	.1593	29.3400
		UPPER CONTAINMENT	103538.30	70.594	.1492	29.3150
		ICE CONDENSER	26239.05	14.713	.0425	29.3190
		TOTAL	176534.42			
147	21: 7:15	LOWER CONTAINMENT	46754.71	75.528	.1581	29.3400
		UPPER CONTAINMENT	103523.29	70.681	.1487	29.3150
		ICE CONDENSER	26232.96	14.856	.0425	29.3210
		TOTAL	176510.96			
148	21:22:16	LOWER CONTAINMENT	46747.99	75.605	.1581	29.3400
		UPPER CONTAINMENT	103523.93	70.705	.1481	29.3160
		ICE CONDENSER	26228.91	14.929	.0424	29.3210
		TOTAL	176500.84			
149	21:37:17	LOWER CONTAINMENT	46754.19	75.573	.1569	29.3410
		UPPER CONTAINMENT	103527.90	70.672	.1478	29.3150
		ICE CONDENSER	26232.41	14.872	.0411	29.3200
		TOTAL	176514.50			
150	21:52:18	LOWER CONTAINMENT	46756.13	75.517	.1568	29.3390
		UPPER CONTAINMENT	103522.45	70.691	.1473	29.3140
		ICE CONDENSER	26236.21	14.823	.0389	29.3190
		TOTAL	176514.78			

CALCULATED VALUES BY READING

PAGE 1

RDG	TIME		MASS	TEMP	VAP	PRESS
151	22: 7:19	LOWER CONTAINMENT	46749.10	75.569	.1573	29.3380
		UPPER CONTAINMENT	103522.73	70.676	.1471	29.3130
		ICE CONDENSER	26232.26	14.868	.0395	29.3180
		TOTAL	176504.09			
152	22:22:20	LOWER CONTAINMENT	46751.76	75.509	.	29.3350
		UPPER CONTAINMENT	103534.42	70.625		29.3130
		ICE CONDENSER	26230.43	14.875	1	29.3180
		TOTAL	176516.62			
153	22:37:22	LOWER CONTAINMENT	46755.24	75.578	.1550	29.3400
		UPPER CONTAINMENT	103536.90	70.673	.1462	29.3160
		ICE CONDENSER	26229.13	14.911	.0423	29.3200
		TOTAL	176521.27			
154	22:52:23	LOWER CONTAINMENT	46748.92	75.587	.1555	29.3370
		UPPER CONTAINMENT	103528.19	70.690	.1457	29.3140
		ICE CONDENSER	26227.26	14.924	.0426	29.3190
		TOTAL	176504.36			
155	23: 7:25	LOWER CONTAINMENT	46746.56	75.576	.1555	29.3350
		UPPER CONTAINMENT	103526.84	70.648	.1454	29.3110
		ICE CONDENSER	26225.71	14.900	.0428	29.3160
		TOTAL	176499.12			
156	23:22:25	LOWER CONTAINMENT	46750.20	75.558	.1542	29.3350
		UPPER CONTAINMENT	103529.67	70.643	.1449	29.3110
		ICE CONDENSER	26224.38	14.910	.0427	29.3150
		TOTAL	176504.25			
157	23:37:26	LOWER CONTAINMENT	46746.14	75.558	.1548	29.3330
		UPPER CONTAINMENT	103530.26	70.611	.1445	29.3090
		ICE CONDENSER	26224.43	14.873	.0429	29.3130
		TOTAL	176500.83			
158	23:52:27	LOWER CONTAINMENT	46749.49	75.554	.1539	29.3340
		UPPER CONTAINMENT	103532.40	70.626	.1441	29.3100
		ICE CONDENSER	26224.32	14.909	.0428	29.3150
		TOTAL	176506.22			
159	0: 7:28	LOWER CONTAINMENT	46744.80	75.647	.1527	29.3350
		UPPER CONTAINMENT	103521.96	70.702	.1438	29.3110
		ICE CONDENSER	26220.94	14.986	.0428	29.3160
		TOTAL	176487.70			
160	0:22:29	LOWER CONTAINMENT	46751.48	75.575	.1525	29.3350
		UPPER CONTAINMENT	103535.18	70.606	.1434	29.3090
		ICE CONDENSER	26220.12	14.952	.0429	29.3130
		TOTAL	176506.77			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
161	0:37:30	LOWER CONTAINMENT	46754.05	75.515	.1522	29.3330
		UPPER CONTAINMENT	103530.90	70.616	.1431	29.3080
		ICE CONDENSER	26220.68	14.946	.0426	29.3130
		TOTAL	176505.63			
162	0:52:32	LOWER CONTAINMENT	46753.37	75.524	.1521	29.3330
		UPPER CONTAINMENT	103529.67	70.650	.1425	29.3090
		ICE CONDENSER	26222.47	14.926	.0429	29.3140
		TOTAL	176505.50			
163	1: 7:33	LOWER CONTAINMENT	46748.46	75.551	.1517	29.3310
		UPPER CONTAINMENT	103532.44	70.626	.1421	29.3080
		ICE CONDENSER	26217.90	14.960	.0428	29.3110
		TOTAL	176498.80			
164	1:22:34	LOWER CONTAINMENT	46749.22	75.551	.1512	29.3310
		UPPER CONTAINMENT	103527.80	70.618	.1418	29.3060
		ICE CONDENSER	26213.66	15.033	.0431	29.3110
		TOTAL	176490.68			
165	1:37:35	LOWER CONTAINMENT	46749.89	75.535	.1517	29.3310
		UPPER CONTAINMENT	103532.89	70.618	.1414	29.3070
		ICE CONDENSER	26214.77	15.001	.0428	29.3100
		TOTAL	176497.55			
166	1:52:36	LOWER CONTAINMENT	46747.11	75.572	.1514	29.3310
		UPPER CONTAINMENT	103521.04	70.666	.1411	29.3060
		ICE CONDENSER	26213.77	15.019	.0428	29.3100
		TOTAL	176481.92			
167	2: 7:37	LOWER CONTAINMENT	46746.44	75.563	.1513	29.3300
		UPPER CONTAINMENT	103524.35	70.656	.1407	29.3060
		ICE CONDENSER	26216.83	14.973	.0432	29.3110
		TOTAL	176487.62			
168	2:22:38	LOWER CONTAINMENT	46747.74	75.591	.1510	29.3320
		UPPER CONTAINMENT	103536.55	70.655	.1403	29.3090
		ICE CONDENSER	26217.77	15.011	.0429	29.3140
		TOTAL	176502.06			
169	2:37:41	LOWER CONTAINMENT	46749.63	75.586	.1491	29.3310
		UPPER CONTAINMENT	103526.81	70.673	.1401	29.3070
		ICE CONDENSER	26212.68	15.053	.0430	29.3110
		TOTAL	176489.11			
170	2:52:42	LOWER CONTAINMENT	46750.41	75.582	.1488	29.3310
		UPPER CONTAINMENT	103536.01	70.598	.1396	29.3050
		ICE CONDENSER	26210.79	15.071	.0429	29.3100
		TOTAL	176497.21			

CALCULATED VALUES BY READING

PAGE 1

RDG	TIME		MASS	TEMP	VAP	PRESS
171	3: 7:43	LOWER CONTAINMENT	46758.37	75.510	.1498	29.3330
		UPPER CONTAINMENT	103534.35	70.650	.1392	29.3070
		ICE CONDENSER	26206.75	15.164	.0427	29.3110
		TOTAL	176499.47			
172	3:22:44	LOWER CONTAINMENT	46750.73	75.587	.1493	29.3320
		UPPER CONTAINMENT	103529.52	70.663	.1389	29.3060
		ICE CONDENSER	26204.89	15.194	.0430	29.3110
		TOTAL	176485.15			
173	3:37:45	LOWER CONTAINMENT	46756.79	75.507	.1489	29.3310
		UPPER CONTAINMENT	103530.29	70.627	.1386	29.3040
		ICE CONDENSER	26208.76	15.070	.0433	29.3080
		TOTAL	176495.84			
174	3:52:47	LOWER CONTAINMENT	46742.50	75.655	.1488	29.3300
		UPPER CONTAINMENT	103520.14	70.704	.1383	29.3050
		ICE CONDENSER	26203.33	15.187	.0431	29.3090
		TOTAL	176465.97			
175	4: 7:48	LOWER CONTAINMENT	46745.69	75.669	.1480	29.3320
		UPPER CONTAINMENT	103520.64	70.706	.1380	29.3050
		ICE CONDENSER	26204.66	15.197	.0430	29.3110
		TOTAL	176470.98			
176	4:22:50	LOWER CONTAINMENT	46739.56	75.652	.1477	29.3270
		UPPER CONTAINMENT	103523.43	70.642	.1378	29.3020
		ICE CONDENSER	26200.77	15.202	.0431	29.3070
		TOTAL	176463.77			
177	4:37:51	LOWER CONTAINMENT	46741.21	75.675	.1475	29.3290
		UPPER CONTAINMENT	103522.36	70.653	.1374	29.3020
		ICE CONDENSER	26200.31	15.206	.0433	29.3070
		TOTAL	176463.89			
178	4:52:53	LOWER CONTAINMENT	46734.48	75.678	.1475	29.3250
		UPPER CONTAINMENT	103517.65	70.665	.1371	29.3010
		ICE CONDENSER	26201.68	15.151	.0431	29.3050
		TOTAL	176453.81			
179	5: 7:54	LOWER CONTAINMENT	46741.83	75.695	.1470	29.3300
		UPPER CONTAINMENT	103532.47	70.682	.1370	29.3060
		ICE CONDENSER	26203.17	15.206	.0431	29.3100
		TOTAL	176477.47			
180	5:22:55	LOWER CONTAINMENT	46745.02	75.627	.1477	29.3290
		UPPER CONTAINMENT	103535.74	70.646	.1370	29.3050
		ICE CONDENSER	26204.48	15.181	.0432	29.3100
		TOTAL	176485.25			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
181	5:37:56	LOWER CONTAINMENT	46744.56	75.630	.1468	29.3280
		UPPER CONTAINMENT	103528.25	70.674	.1366	29.3040
		ICE CONDENSER	26203.46	15.183	.0432	29.3090
		TOTAL	176476.27			
182	5:52:58	LOWER CONTAINMENT	46748.99	75.606	.1464	29.3290
		UPPER CONTAINMENT	103539.95	70.655	.1364	29.3060
		ICE CONDENSER	26205.59	15.173	.0434	29.3110
		TOTAL	176494.52			
183	6: 8: 0	LOWER CONTAINMENT	46752.74	75.576	.1457	29.3290
		UPPER CONTAINMENT	103534.96	70.667	.1361	29.3050
		ICE CONDENSER	26203.59	15.162	.0434	29.3080
		TOTAL	176491.29			
184	6:23: 1	LOWER CONTAINMENT	46741.94	75.685	.1465	29.3290
		UPPER CONTAINMENT	103521.02	70.722	.1360	29.3040
		ICE CONDENSER	26200.40	15.237	.0433	29.3090
		TOTAL	176463.36			
185	6:38: 2	LOWER CONTAINMENT	46742.98	75.637	.1455	29.3260
		UPPER CONTAINMENT	103525.95	70.663	.1359	29.3020
		ICE CONDENSER	26199.82	15.197	.0434	29.3060
		TOTAL	176468.75			
186	6:53: 4	LOWER CONTAINMENT	46750.62	75.592	.1451	29.3280
		UPPER CONTAINMENT	103552.32	70.568	.1357	29.3040
		ICE CONDENSER	26203.29	15.155	.0431	29.3070
		TOTAL	176506.23			
187	7: 8: 5	LOWER CONTAINMENT	46752.83	75.527	.1453	29.3260
		UPPER CONTAINMENT	103545.79	70.534	.1354	29.3000
		ICE CONDENSER	26204.02	15.121	.0434	29.3060
		TOTAL	176502.64			
188	7:23: 6	LOWER CONTAINMENT	46741.93	75.686	.1454	29.3280
		UPPER CONTAINMENT	103523.33	70.710	.1350	29.3030
		ICE CONDENSER	26191.69	15.362	.0434	29.3070
		TOTAL	176456.94			
189	7:38: 7	LOWER CONTAINMENT	46737.87	75.693	.1446	29.3250
		UPPER CONTAINMENT	103518.17	70.668	.1348	29.2990
		ICE CONDENSER	26190.65	15.348	.0434	29.3050
		TOTAL	176446.69			
190	7:53: 9	LOWER CONTAINMENT	46745.21	75.643	.1447	29.3270
		UPPER CONTAINMENT	103535.97	70.635	.1346	29.3020
		ICE CONDENSER	26195.67	15.284	.0437	29.3070
		TOTAL	176476.85			

CALCULATED VALUES BY READING

PAGE 2

RDG	TIME		MASS	TEMP	VAP	PRESS
191	8: 8:10	LOWER CONTAINMENT	46738.90	75.718	.1446	29.3270
		UPPER CONTAINMENT	103523.45	70.703	.1344	29.3020
		ICE CONDENSER	26193.46	15.329	.0434	29.3070
		TOTAL	176455.81			
192	8:23:12	LOWER CONTAINMENT	46738.82	75.720	.1435	29.3260
		UPPER CONTAINMENT	103525.68	70.678	.1341	29.3010
		ICE CONDENSER	26192.90	15.323	.0434	29.3060
		TOTAL	176457.40			
193	8:38:13	LOWER CONTAINMENT	46743.38	75.640	.1431	29.3240
		UPPER CONTAINMENT	103536.50	70.588	.1340	29.2990
		ICE CONDENSER	26193.55	15.279	.0433	29.3040
		TOTAL	176473.42			
194	8:53:14	LOWER CONTAINMENT	46740.75	75.703	.1432	29.3260
		UPPER CONTAINMENT	103525.53	70.670	.1336	29.3000
		ICE CONDENSER	26187.90	15.405	.0429	29.3050
		TOTAL	176454.18			
195	9: 8:15	LOWER CONTAINMENT	46735.43	75.750	.1430	29.3250
		UPPER CONTAINMENT	103528.97	70.711	.1334	29.3030
		ICE CONDENSER	26187.99	15.489	.0407	29.3080
		TOTAL	176452.39			
196	9:23:16	LOWER CONTAINMENT	46738.28	75.707	.1435	29.3250
		UPPER CONTAINMENT	103526.72	70.655	.1331	29.2990
		ICE CONDENSER	26186.70	15.489	.0391	29.3050
		TOTAL	176451.70			
197	9:38:17	LOWER CONTAINMENT	46740.17	75.671	.1423	29.3230
		UPPER CONTAINMENT	103522.57	70.681	.1328	29.2990
		ICE CONDENSER	26189.27	15.382	.0408	29.3030
		TOTAL	176452.00			
198	9:53:19	LOWER CONTAINMENT	46740.43	75.683	.1425	29.3240
		UPPER CONTAINMENT	103537.86	70.641	.1327	29.3010
		ICE CONDENSER	26191.04	15.353	.0426	29.3050
		TOTAL	176469.32			
199	10: 8:21	LOWER CONTAINMENT	46735.36	75.689	.1423	29.3210
		UPPER CONTAINMENT	103524.72	70.640	.1325	29.2970
		ICE CONDENSER	26187.83	15.347	.0436	29.3020
		TOTAL	176447.91			
200	10:23:22	LOWER CONTAINMENT	46735.24	75.704	.1416	29.3210
		UPPER CONTAINMENT	103516.62	70.701	.1324	29.2980
		ICE CONDENSER	26184.61	15.421	.0436	29.3030
		TOTAL	176436.47			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
201	10:38:24	LOWER CONTAINMENT	46732.37	75.785	.1420	29.3240
		UPPER CONTAINMENT	103518.02	70.719	.1320	29.2990
		ICE CONDENSER	26182.23	15.464	.0436	29.3030
		TOTAL	176432.61			
202	10:55:00	LOWER CONTAINMENT	46737.51	75.696	.1426	29.3230
		UPPER CONTAINMENT	103527.16	70.677	.1318	29.2990
		ICE CONDENSER	26186.29	15.405	.0437	29.3040
		TOTAL	176450.95			
203	11:10:02	LOWER CONTAINMENT	46742.80	75.683	.1411	29.3240
		UPPER CONTAINMENT	103529.20	70.666	.1317	29.2990
		ICE CONDENSER	26184.85	15.395	.0439	29.3020
		TOTAL	176456.85			
204	11:25:04	LOWER CONTAINMENT	46734.09	75.698	.1417	29.3200
		UPPER CONTAINMENT	103520.77	70.645	.1313	29.2950
		ICE CONDENSER	26182.55	15.386	.0440	29.2990
		TOTAL	176437.41			
205	11:40:36	LOWER CONTAINMENT	46735.51	75.696	.1408	29.3200
		UPPER CONTAINMENT	103523.83	70.648	.1313	29.2960
		ICE CONDENSER	26183.21	15.366	.0443	29.3000
		TOTAL	176442.55			
206	11:55:37	LOWER CONTAINMENT	46735.66	75.645	.1404	29.3170
		UPPER CONTAINMENT	103525.35	70.610	.1308	29.2940
		ICE CONDENSER	26182.88	15.367	.0439	29.2980
		TOTAL	176444.60			
207	12:10:38	LOWER CONTAINMENT	46733.26	75.714	.1414	29.3200
		UPPER CONTAINMENT	103519.35	70.680	.1308	29.2960
		ICE CONDENSER	26178.46	15.481	.0438	29.3000
		TOTAL	176430.88			
208	12:25:40	LOWER CONTAINMENT	46739.98	75.631	.1406	29.3190
		UPPER CONTAINMENT	103506.55	70.676	.1306	29.2920
		ICE CONDENSER	26178.59	15.449	.0436	29.2980
		TOTAL	176425.11			
209	12:40:42	LOWER CONTAINMENT	46733.51	75.660	.1401	29.3160
		UPPER CONTAINMENT	103511.40	70.641	.1302	29.2910
		ICE CONDENSER	26178.66	15.426	.0439	29.2970
		TOTAL	176423.57			
210	12:55:43	LOWER CONTAINMENT	46727.84	75.682	.1394	29.3130
		UPPER CONTAINMENT	103503.39	70.647	.1301	29.2890
		ICE CONDENSER	26176.08	15.424	.0440	29.2940
		TOTAL	176407.31			

CALCULATED VALUES BY READING

PAGE 2

RDG	TIME		MASS	TEMP	VAP	PRESS
211	13: 5:41	LOWER CONTAINMENT	46729.34	75.675	.1399	29.3140
		UPPER CONTAINMENT	103506.29	70.635	.1300	29.2890
		ICE CONDENSER	26175.88	15.429	.0439	29.2940
		TOTAL	176411.51			
212	13:15:42	LOWER CONTAINMENT	46731.76	75.680	.1391	29.3150
		UPPER CONTAINMENT	103511.27	70.647	.1299	29.2910
		ICE CONDENSER	26173.92	15.463	.0440	29.2940
		TOTAL	176416.95			
213	13:25:43	LOWER CONTAINMENT	46725.57	75.660	.1400	29.3110
		UPPER CONTAINMENT	103502.29	70.622	.1296	29.2870
		ICE CONDENSER	26168.34	15.535	.0438	29.2920
		TOTAL	176396.20			
214	13:35:43	LOWER CONTAINMENT	46727.47	75.701	.1397	29.3140
		UPPER CONTAINMENT	103501.21	70.649	.1296	29.2880
		ICE CONDENSER	26169.16	15.531	.0441	29.2930
		TOTAL	176397.84			
215	13:45:43	LOWER CONTAINMENT	46724.51	75.713	.1398	29.3130
		UPPER CONTAINMENT	103500.57	70.691	.1295	29.2920
		ICE CONDENSER	26167.81	15.576	.0438	29.2940
		TOTAL	176392.89			
216	13:55:44	LOWER CONTAINMENT	46730.97	75.647	.1394	29.3130
		UPPER CONTAINMENT	103501.66	70.633	.1293	29.2870
		ICE CONDENSER	26171.51	15.492	.0439	29.2930
		TOTAL	176404.16			
217	14: 5:44	LOWER CONTAINMENT	46723.43	75.731	.1385	29.3120
		UPPER CONTAINMENT	103494.75	70.690	.1292	29.2860
		ICE CONDENSER	26168.56	15.524	.0442	29.2920
		TOTAL	176386.78			
218	14:15:45	LOWER CONTAINMENT	46722.50	75.692	.1390	29.3100
		UPPER CONTAINMENT	103496.98	70.643	.1291	29.2860
		ICE CONDENSER	26169.54	15.495	.0439	29.2910
		TOTAL	176389.43			
219	14:25:45	LOWER CONTAINMENT	46723.59	75.677	.1394	29.3100
		UPPER CONTAINMENT	103490.56	70.643	.1290	29.2840
		ICE CONDENSER	26167.16	15.505	.0440	29.2890
		TOTAL	176381.31			
220	14:35:47	LOWER CONTAINMENT	46727.65	75.682	.1386	29.3120
		UPPER CONTAINMENT	103495.68	70.672	.1289	29.2870
		ICE CONDENSER	26165.10	15.553	.0443	29.2900
		TOTAL	176388.44			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
221	14:45:48	LOWER CONTAINMENT	46727.40	73.652	.1385	29.3100
		UPPER CONTAINMENT	103486.12	70.658	.1288	29.2842
		ICE CONDENSER	26166.37	15.520	.0439	29.2892
		TOTAL	176381.89			
222	14:55:49	LOWER CONTAINMENT	46726.47	73.674	.1387	29.3112
		UPPER CONTAINMENT	103491.36	70.643	.1287	29.2842
		ICE CONDENSER	26163.20	15.572	.0442	29.2892
		TOTAL	176381.03			
223	15: 5:49	LOWER CONTAINMENT	46720.99	73.710	.1382	29.3132
		UPPER CONTAINMENT	103480.58	70.721	.1286	29.2842
		ICE CONDENSER	26154.79	15.714	.0439	29.2882
		TOTAL	176356.36			
224	15:15:50	LOWER CONTAINMENT	46726.87	73.692	.1382	29.3120
		UPPER CONTAINMENT	103492.62	70.626	.1283	29.2832
		ICE CONDENSER	26156.62	15.656	.0442	29.2872
		TOTAL	176376.11			
225	15:25:51	LOWER CONTAINMENT	46722.32	73.694	.1382	29.3092
		UPPER CONTAINMENT	103492.22	70.632	.1282	29.2832
		ICE CONDENSER	26156.83	15.673	.0442	29.2882
		TOTAL	176371.35			
226	15:35:52	LOWER CONTAINMENT	46723.22	73.624	.1382	29.3272
		UPPER CONTAINMENT	103479.29	70.643	.1281	29.2822
		ICE CONDENSER	26133.36	15.621	.0442	29.2832
		TOTAL	176357.87			
227	15:45:52	LOWER CONTAINMENT	46719.24	73.674	.1382	29.3262
		UPPER CONTAINMENT	103464.22	72.627	.1279	29.2782
		ICE CONDENSER	26134.96	15.612	.0442	29.2822
		TOTAL	176338.47			
228	16: 0:28	LOWER CONTAINMENT	46717.97	73.704	.1384	29.3072
		UPPER CONTAINMENT	103478.22	70.635	.1278	29.2822
		ICE CONDENSER	26157.75	15.592	.0441	29.2842
		TOTAL	176353.73			
229	16:15:28	LOWER CONTAINMENT	46717.16	73.626	.1382	29.3022
		UPPER CONTAINMENT	103479.86	70.539	.1277	29.2742
		ICE CONDENSER	26156.28	15.522	.0441	29.2782
		TOTAL	176353.30			
230	16:30:29	LOWER CONTAINMENT	46688.99	73.588	.1368	29.2812
		UPPER CONTAINMENT	103400.80	70.565	.1275	29.2532
		ICE CONDENSER	26136.10	15.529	.0442	29.2562
		TOTAL	176225.92			

CALCULATED VALUES BY READING

PAGE 2

RDG	TIME		MASS	TEMP	VAP	PRESS
231	16:45:30	LOWER CONTAINMENT	46468.03	75.509	.1370	29.1390
		UPPER CONTAINMENT	102946.44	70.330	.1268	29.1120
		ICE CONDENSER	26012.71	15.500	.0439	29.1160
		TOTAL	175429.18			
232	17: 0:30	LOWER CONTAINMENT	46173.75	75.475	.1355	28.9520
		UPPER CONTAINMENT	102330.54	70.074	.1257	28.9230
		ICE CONDENSER	25846.71	15.438	.0442	28.9270
		TOTAL	174350.99			
233	17:15:32	LOWER CONTAINMENT	45879.52	75.364	.1351	28.7680
		UPPER CONTAINMENT	101684.72	69.936	.1249	28.7330
		ICE CONDENSER	25679.17	15.364	.0436	28.7360
		TOTAL	173243.42			
234	17:30:32	LOWER CONTAINMENT	45571.20	75.387	.1343	28.5720
		UPPER CONTAINMENT	101007.01	69.928	.1240	28.5410
		ICE CONDENSER	25507.90	15.412	.0433	28.5460
		TOTAL	172086.10			
235	17:45:33	LOWER CONTAINMENT	45261.35	75.375	.1332	28.3750
		UPPER CONTAINMENT	100342.32	69.815	.1230	28.3470
		ICE CONDENSER	25337.06	15.408	.0395	28.3510
		TOTAL	170940.73			
236	18: 0:33	LOWER CONTAINMENT	44942.11	75.388	.1327	28.1760
		UPPER CONTAINMENT	99643.09	69.787	.1222	28.1400
		ICE CONDENSER	25156.79	15.444	.0387	28.1510
		TOTAL	169741.99			
237	18:15:33	LOWER CONTAINMENT	44625.45	75.304	.1317	27.9730
		UPPER CONTAINMENT	98933.34	69.698	.1214	27.9430
		ICE CONDENSER	24975.17	15.388	.0410	27.9470
		TOTAL	168533.96			
238	18:30:34	LOWER CONTAINMENT	44292.21	75.329	.1313	27.7660
		UPPER CONTAINMENT	98203.70	69.678	.1207	27.7360
		ICE CONDENSER	24786.81	15.422	.0425	27.7400
		TOTAL	167282.72			
239	18:45:34	LOWER CONTAINMENT	43950.49	75.334	.1303	27.5520
		UPPER CONTAINMENT	97465.01	69.612	.1198	27.5240
		ICE CONDENSER	24598.29	15.355	.0430	27.5260
		TOTAL	166013.78			
240	19: 0:34	LOWER CONTAINMENT	43606.28	75.307	.1294	27.3350
		UPPER CONTAINMENT	96703.08	69.592	.1191	27.3080
		ICE CONDENSER	24404.03	15.367	.0434	27.3100
		TOTAL	164713.38			

CALCULATED VALUES BY READING

PAGE 25

RDG	TIME		MASS	TEMP	VAP	PRESS
241	19:15:35	LOWER CONTAINMENT	43255.77	75.346	.1291	27.1180
		UPPER CONTAINMENT	95934.84	69.586	.1184	27.0910
		ICE CONDENSER	24206.74	15.431	.0442	27.0940
		TOTAL	163397.36			
242	19:30:35	LOWER CONTAINMENT	42897.82	75.339	.1288	26.8940
		UPPER CONTAINMENT	95140.85	69.545	.1177	26.8650
		ICE CONDENSER	24003.81	15.460	.0443	26.8690
		TOTAL	162042.48			
243	19:45:36	LOWER CONTAINMENT	42540.61	75.261	.1285	26.6670
		UPPER CONTAINMENT	94359.32	69.434	.1169	26.6390
		ICE CONDENSER	23803.31	15.387	.0444	26.6410
		TOTAL	160703.24			
244	20: 0:37	LOWER CONTAINMENT	42166.05	75.277	.1274	26.4330
		UPPER CONTAINMENT	93543.90	69.372	.1162	26.4060
		ICE CONDENSER	23597.48	15.316	.0444	26.4070
		TOTAL	159307.43			
245	20:15:37	LOWER CONTAINMENT	41789.66	75.257	.1272	26.1970
		UPPER CONTAINMENT	92721.43	69.308	.1155	26.1710
		ICE CONDENSER	23390.69	15.281	.0443	26.1740
		TOTAL	157901.81			
246	20:30:38	LOWER CONTAINMENT	41406.10	75.296	.1266	25.9590
		UPPER CONTAINMENT	91878.38	69.279	.1148	25.9320
		ICE CONDENSER	23174.22	15.314	.0443	25.9340
		TOTAL	156458.70			
247	20:45:39	LOWER CONTAINMENT	41017.63	75.277	.1259	25.7150
		UPPER CONTAINMENT	91014.86	69.225	.1141	25.6860
		ICE CONDENSER	22956.58	15.279	.0443	25.6890
		TOTAL	154989.08			
248	21: 0:40	LOWER CONTAINMENT	40625.49	75.245	.1250	25.4680
		UPPER CONTAINMENT	90150.78	69.151	.1135	25.4390
		ICE CONDENSER	22733.15	15.313	.0441	25.4410
		TOTAL	153509.42			
249	21:15:41	LOWER CONTAINMENT	40221.04	75.215	.1247	25.2140
		UPPER CONTAINMENT	89252.91	69.147	.1128	25.1860
		ICE CONDENSER	22504.92	15.321	.0447	25.1870
		TOTAL	151978.86			
250	21:30:42	LOWER CONTAINMENT	39804.70	75.196	.1243	24.9530
		UPPER CONTAINMENT	88333.73	69.082	.1121	24.9240
		ICE CONDENSER	22274.43	15.259	.0444	24.9260
		TOTAL	150412.85			

CALCULATED VALUES BY READING

PAGE 2

RDG	TIME		MASS	TEMP	VAP	PRESS
251	21:45:42	LOWER CONTAINMENT	39375.80	75.204	.1235	24.6850
		UPPER CONTAINMENT	87390.00	69.037	.1113	24.6560
		ICE CONDENSER	22038.41	15.176	.0444	24.6580
		TOTAL	148804.20			
252	22: 0:42	LOWER CONTAINMENT	38943.06	75.226	.1224	24.4150
		UPPER CONTAINMENT	86446.33	68.961	.1108	24.3870
		ICE CONDENSER	21795.93	15.172	.0444	24.3870
		TOTAL	147185.32			
253	22:15:43	LOWER CONTAINMENT	38497.19	75.171	.1220	24.1340
		UPPER CONTAINMENT	85447.41	68.926	.1100	24.1040
		ICE CONDENSER	21546.64	15.122	.0444	24.1060
		TOTAL	145491.24			
254	22:30:45	LOWER CONTAINMENT	38038.80	75.201	.1216	23.8490
		UPPER CONTAINMENT	84441.21	68.886	.1093	23.8190
		ICE CONDENSER	21293.44	15.076	.0444	23.8210
		TOTAL	143773.45			
255	22:45:46	LOWER CONTAINMENT	37579.37	75.127	.1204	23.5580
		UPPER CONTAINMENT	83427.24	68.753	.1089	23.5260
		ICE CONDENSER	21036.92	14.974	.0439	23.5290
		TOTAL	142043.54			
256	23: 0:46	LOWER CONTAINMENT	37099.53	75.096	.1201	23.2570
		UPPER CONTAINMENT	82371.37	68.696	.1078	23.2280
		ICE CONDENSER	20771.64	14.915	.0439	23.2300
		TOTAL	140242.55			
257	23:15:47	LOWER CONTAINMENT	36612.62	75.076	.1195	22.9520
		UPPER CONTAINMENT	81298.39	68.646	.1071	22.9240
		ICE CONDENSER	20500.61	14.857	.0443	22.9250
		TOTAL	138411.62			
258	23:30:49	LOWER CONTAINMENT	36114.67	75.064	.1186	22.6400
		UPPER CONTAINMENT	80195.29	68.603	.1065	22.6120
		ICE CONDENSER	20221.10	14.830	.0445	22.6120
		TOTAL	136531.06			
259	23:45:49	LOWER CONTAINMENT	35597.26	75.045	.1180	22.3160
		UPPER CONTAINMENT	79052.91	68.517	.1057	22.2870
		ICE CONDENSER	19930.31	14.817	.0447	22.2870
		TOTAL	134580.48			
260	0: 0:50	LOWER CONTAINMENT	35067.58	74.974	.1172	21.9820
		UPPER CONTAINMENT	77881.02	68.390	.1048	21.9520
		ICE CONDENSER	19635.49	14.761	.0443	21.9550
		TOTAL	132584.08			

CALCULATED VALUES BY READING

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RDG	TIME		MASS	TEMP	VAP	PRESS
261	0:15:51	LOWER CONTAINMENT	34524.99	74.930	.1163	21.6410
		UPPER CONTAINMENT	76692.24	68.272	.1041	21.6130
		ICE CONDENSER	19331.47	14.728	.0440	21.6140
		TOTAL	130548.70			
262	0:30:52	LOWER CONTAINMENT	33963.66	74.905	.1153	21.2690
		UPPER CONTAINMENT	75449.23	68.192	.1039	21.2610
		ICE CONDENSER	19015.71	14.729	.0443	21.2620
		TOTAL	128428.60			
263	0:45:52	LOWER CONTAINMENT	33387.09	74.825	.1148	20.9200
		UPPER CONTAINMENT	74168.57	68.132	.1034	20.8990
		ICE CONDENSER	18696.27	14.612	.0439	20.9000
		TOTAL	126251.92			
264	1: 0:53	LOWER CONTAINMENT	32791.49	74.828	.1140	20.5540
		UPPER CONTAINMENT	72853.69	68.031	.1030	20.5260
		ICE CONDENSER	18361.30	14.605	.0448	20.5270
		TOTAL	124006.48			
265	1:15:53	LOWER CONTAINMENT	32176.08	74.847	.1129	20.1700
		UPPER CONTAINMENT	71497.58	67.919	.1024	20.1410
		ICE CONDENSER	18016.22	14.623	.0440	20.1420
		TOTAL	121689.88			
266	1:30:55	LOWER CONTAINMENT	31547.53	74.703	.1120	19.7720
		UPPER CONTAINMENT	70091.53	67.827	.1019	19.7430
		ICE CONDENSER	17657.44	14.631	.0449	19.7430
		TOTAL	119296.50			
267	1:45:56	LOWER CONTAINMENT	30889.22	74.686	.1108	19.3600
		UPPER CONTAINMENT	68632.60	67.803	.1016	19.3330
		ICE CONDENSER	17293.15	14.555	.0444	19.3330
		TOTAL	116814.97			
268	2: 0:57	LOWER CONTAINMENT	30201.90	74.584	.1097	18.9270
		UPPER CONTAINMENT	67104.92	67.636	.1016	18.8990
		ICE CONDENSER	16910.39	14.398	.0445	18.9000
		TOTAL	114217.22			
269	2:15:58	LOWER CONTAINMENT	29458.52	74.490	.1081	18.4590
		UPPER CONTAINMENT	65444.47	67.506	.1012	18.4290
		ICE CONDENSER	16492.87	14.320	.0442	18.4310
		TOTAL	111395.86			
270	2:30:59	LOWER CONTAINMENT	28629.78	74.474	.1059	17.9400
		UPPER CONTAINMENT	63635.70	67.242	.0997	17.9120
		ICE CONDENSER	16025.28	14.359	.0440	17.9110
		TOTAL	108290.76			

CALCULATED VALUES BY READING

PAGE 2

RDG	TIME		MASS	TEMP	VAP	PRESS
271	2:46: 0	LOWER CONTAINMENT	27756.53	74.337	.1043	17.3900
		UPPER CONTAINMENT	61712.79	66.965	.0990	17.3640
		ICE CONDENSER	15537.72	14.248	.0436	17.3630
		TOTAL	105007.04			
272	3: 1: 1	LOWER CONTAINMENT	26879.00	74.227	.1022	16.6380
		UPPER CONTAINMENT	59752.72	66.764	.0988	16.8090
		ICE CONDENSER	15041.85	14.217	.0434	16.8090
		TOTAL	101673.57			
273	3:16: 2	LOWER CONTAINMENT	25991.64	74.191	.0999	16.2620
		UPPER CONTAINMENT	57788.85	66.632	.0980	16.2550
		ICE CONDENSER	14542.93	14.248	.0435	16.2540
		TOTAL	98323.42			
274	3:31: 4	LOWER CONTAINMENT	25130.43	74.058	.0979	15.7400
		UPPER CONTAINMENT	55868.54	66.463	.0979	15.7130
		ICE CONDENSER	14060.55	14.117	.0435	15.7120
		TOTAL	95059.53			
275	3:46: 4	LOWER CONTAINMENT	24353.80	74.159	.0965	15.2580
		UPPER CONTAINMENT	54128.03	66.600	.0985	15.2310
		ICE CONDENSER	13628.79	14.104	.0430	15.2300
		TOTAL	92110.62			
276	4: 1: 5	LOWER CONTAINMENT	23751.15	74.223	.0959	14.8640
		UPPER CONTAINMENT	52763.80	66.799	.0993	14.8560
		ICE CONDENSER	13293.43	14.059	.0431	14.8550
		TOTAL	89808.38			
277	4:16: 6	LOWER CONTAINMENT	23371.75	74.353	.0955	14.6510
		UPPER CONTAINMENT	51879.62	67.295	.1009	14.6240
		ICE CONDENSER	13082.96	14.136	.0433	14.6230
		TOTAL	88334.34			
278	4:31: 6	LOWER CONTAINMENT	23210.51	74.536	.0970	14.5570
		UPPER CONTAINMENT	51470.77	67.909	.1036	14.5290
		ICE CONDENSER	12998.45	14.147	.0431	14.5290
		TOTAL	87679.73			
279	4:46: 8	LOWER CONTAINMENT	23175.98	74.745	.0989	14.5430
		UPPER CONTAINMENT	51359.54	68.471	.1064	14.5160
		ICE CONDENSER	12986.30	14.118	.0435	14.5150
		TOTAL	87521.82			
280	5: 1: 9	LOWER CONTAINMENT	23171.19	74.809	.1011	14.5440
		UPPER CONTAINMENT	51326.11	68.746	.1083	14.5160
		ICE CONDENSER	12987.25	14.079	.0437	14.5150
		TOTAL	87484.55			

READING # 36 AT 17:20:19 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	72.815	77.288	76.529	76.752	76.031
6-10	73.138	73.851	74.769	75.219	81.166
11-15	82.474	81.123	82.850	79.434	78.535
16-20	80.131	80.378	74.353	75.731	74.765
21-25	74.415	64.113	73.088	72.328	74.064
26-30	75.071	76.350	73.720	72.642	74.275
31-35	73.593	73.657	73.899	74.339	74.246
36-40	75.232	75.285	13.050	11.819	13.447
41-45	13.043	13.636	12.486	13.786	12.671
46-50	14.099	12.967	12.402	12.373	12.483
51-52	12.319	12.135			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.6060	29.5880	29.5940	65.714	.000	.000
59-61				66.708	14.680	.000

READING # 37 AT 17:35:19 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	72.073	76.917	76.836	76.520	75.706
6-10	73.045	73.480	74.398	74.880	80.934
11-15	82.103	80.891	82.618	79.063	78.131
16-20	79.991	80.099	74.121	75.545	74.672
21-25	74.230	64.067	72.764	72.003	73.786
26-30	74.746	76.442	72.978	72.317	73.487
31-35	72.851	73.472	73.204	73.411	73.365
36-40	73.980	74.034	12.949	11.861	13.438
41-45	13.126	13.627	12.522	13.823	12.616
46-50	14.044	13.004	12.347	12.276	12.428
51-52	12.264	12.084			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.5690	29.5530	29.5590	66.191	.000	.000
59-61				66.124	14.891	.000

READING # 38 AT 17:50:19 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	71.703	76.686	76.465	76.381	75.474
6-10	72.860	73.248	74.167	74.695	80.702
11-15	82.149	80.612	82.525	78.552	77.667
16-20	79.852	79.821	73.936	75.406	74.579
21-25	74.044	63.928	72.439	71.725	73.508
26-30	74.561	76.164	72.515	71.947	73.162
31-35	72.387	73.147	72.833	72.809	72.763
36-40	73.377	73.339	12.982	11.888	13.419
41-45	13.158	13.563	12.463	13.759	12.510
46-50	14.026	13.127	12.333	12.258	12.414
51-52	12.296	12.112			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.5480	29.5300	29.5380	66.034	.000	.000
59-61				65.503	14.752	.000

READING # 39 AT 18: 5:19 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	71.424	76.454	76.233	76.196	75.335
6-10	72.721	73.156	74.074	74.602	80.748
11-15	81.731	80.473	82.479	78.321	77.482
16-20	79.806	79.636	73.797	75.313	74.440
21-25	73.906	63.835	72.300	71.585	73.323
26-30	74.375	76.164	72.283	71.669	73.069
31-35	72.155	72.916	72.463	72.530	72.438
36-40	73.099	72.968	12.904	12.039	13.346
41-45	13.263	13.490	12.477	13.731	12.386
46-50	13.952	13.049	12.255	12.276	12.382
51-52	12.264	12.176			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.5390	29.5220	29.5280	65.394	.000	.000
59-61				64.940	14.963	.000

READING # 40 AT 18:20:18 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	71.424	76.408	76.233	76.242	75.335
6-10	72.767	73.156	74.120	74.649	80.655
11-15	81.964	80.427	82.386	78.042	77.250
16-20	79.667	79.636	73.843	75.406	74.486
21-25	73.952	63.928	72.300	71.585	73.369
26-30	74.375	76.164	72.190	71.622	72.745
31-35	72.062	72.823	72.463	72.530	72.392
36-40	72.960	72.876	12.986	12.718	13.474
41-45	13.483	13.618	12.789	13.813	12.560
46-50	14.035	12.949	12.430	12.359	12.511
51-52	12.392	12.258			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.5270	29.5110	29.5180	65.494	.000	.000
59-61				64.557	14.949	.000

READING # 41 AT 18:35:18 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	71.193	76.222	76.048	76.057	75.150
6-10	72.582	72.970	73.935	74.556	80.563
11-15	81.871	80.287	82.340	77.950	76.971
16-20	79.435	79.496	73.565	75.406	74.301
21-25	73.767	63.743	72.069	71.353	73.137
26-30	74.236	76.118	71.912	71.576	72.699
31-35	71.877	72.545	72.231	72.252	72.114
36-40	72.729	72.644	12.848	13.039	13.383
41-45	13.437	13.526	12.651	13.722	12.382
46-50	13.943	12.857	12.384	12.267	12.469
51-52	12.346	12.213			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.5170	29.5010	29.5060	65.214	.000	.000
59-61				64.126	15.098	.000

READING # 42 AT 18:50:17 11/24/87

POINTS:

	TEMPERATURE (FAHRENHEIT)				
1-5	71.100	76.222	76.001	76.057	75.057
6-10	72.582	73.016	73.888	74.556	80.516
11-15	81.824	80.380	82.247	77.350	76.925
16-20	79.435	79.543	73.565	75.499	74.301
21-25	73.813	63.743	72.115	71.353	73.184
26-30	74.190	76.350	71.866	71.530	72.652
31-35	71.831	72.453	72.185	72.159	72.021
36-40	72.682	72.505	12.959	12.645	13.401
41-45	13.730	13.590	12.578	13.786	12.533
46-50	14.007	13.059	12.494	12.327	12.621
51-52	12.410	12.272			

	PRESSURE (PSIA)			DEW POINT TEMPERATURE		
53-55, 56-58	29.5130	29.4960	29.5020	65.039	.000	.000
59-61				63.734	15.034	.000

READING # 43 AT 19: 5:17 11/24/87

POINTS:

	TEMPERATURE (FAHRENHEIT)				
1-5	71.053	76.037	75.955	75.964	75.010
6-10	72.535	72.970	73.842	74.556	80.472
11-15	81.917	80.287	82.340	77.903	76.766
16-20	79.295	79.404	73.519	75.592	74.254
21-25	73.721	63.789	71.976	71.307	73.044
26-30	74.097	76.396	71.773	71.669	72.745
31-35	71.784	72.360	72.185	72.067	71.929
36-40	72.543	72.413	12.972	12.429	13.318
41-45	13.831	13.554	12.729	13.749	11.859
46-50	14.016	13.389	12.508	12.386	12.634
51-52	12.470	12.286			

	PRESSURE (PSIA)			DEW POINT TEMPERATURE		
53-55, 56-58	29.5010	29.4840	29.4920	64.359	.000	.000
59-61				63.338	15.139	.000

READING # 44 AT 19:20:17 11/24/87

POINTS:

	TEMPERATURE (FAHRENHEIT)				
1-5	70.822	75.851	75.816	75.732	74.871
6-10	72.396	72.831	73.703	74.417	80.284
11-15	81.824	80.287	82.200	77.764	76.693
16-20	79.110	79.311	73.426	75.685	74.161
21-25	73.628	63.604	71.883	71.168	72.859
26-30	73.912	76.303	71.680	71.298	72.836
31-35	71.599	72.221	71.999	71.927	71.790
36-40	72.358	72.274	12.904	12.269	13.254
41-45	14.042	13.490	12.936	13.640	12.753
46-50	13.906	13.830	12.439	12.322	12.566
51-52	12.447	12.222			

	PRESSURE (PSIA)			DEW POINT TEMPERATURE		
53-55, 56-58	29.4980	29.4800	29.4880	64.054	.000	.000
59-61				63.018	15.134	.000

READING # 45 AT 19:35:17 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.775	75.759	75.770	75.686	74.871
6-10	72.350	72.831	73.657	74.463	80.238
11-15	81.731	80.148	82.572	77.672	76.554
16-20	78.970	79.265	73.380	75.870	74.115
21-25	73.582	63.604	71.837	71.075	72.859
26-30	73.865	76.257	71.587	71.298	72.606
31-35	71.599	72.221	71.953	71.881	71.743
36-40	72.358	72.227	12.940	12.397	13.337
41-45	13.666	13.526	13.202	13.768	13.708
46-50	13.943	13.176	12.476	12.359	12.602
51-52	12.529	12.258			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4930	29.4750	29.4830	63.581	.000	.000
59-61				62.609	15.085	.000

READING # 46 AT 19:50:16 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.775	75.759	75.723	75.593	74.825
6-10	72.396	72.785	73.703	74.463	80.284
11-15	81.683	80.148	82.293	77.486	76.554
16-20	78.924	79.218	73.426	76.009	74.115
21-25	73.562	63.558	71.837	71.075	72.859
26-30	73.819	76.211	71.541	71.205	72.838
31-35	71.506	72.175	71.860	71.835	71.651
36-40	72.265	72.161	13.078	13.339	13.337
41-45	13.483	13.526	12.926	13.813	13.065
46-50	13.943	12.903	12.567	12.405	12.648
51-52	12.575	12.304			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4890	29.4720	29.4780	63.617	.000	.000
59-61				62.384	15.174	.000

READING # 47 AT 20: 5:16 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.683	75.620	75.584	75.500	74.732
6-10	72.211	72.646	73.564	74.371	80.192
11-15	82.289	80.102	82.572	77.347	76.461
16-20	78.878	79.125	73.333	75.917	74.069
21-25	73.489	63.511	71.744	71.029	72.674
26-30	73.680	76.025	71.495	71.391	72.328
31-35	71.460	71.990	71.768	71.696	71.511
36-40	72.173	72.042	13.069	13.259	13.328
41-45	13.611	13.517	12.646	13.759	12.693
46-50	13.888	12.985	12.517	12.350	12.552
51-52	12.520	12.295			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4800	29.4640	29.4700	62.982	.000	.000
59-61				62.051	15.071	.000

READING # 48 AT 20:20:15 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.683	75.620	75.584	75.500	74.732
6-10	72.303	72.738	73.610	74.417	80.238
11-15	82.056	80.102	82.618	77.393	76.461
16-20	78.831	79.125	73.333	75.963	74.269
21-25	73.489	63.558	71.837	71.029	72.674
26-30	73.726	76.211	71.448	71.252	72.838
31-35	71.506	72.036	71.814	71.742	71.511
36-40	72.219	72.042	13.161	13.259	13.419
41-45	13.973	13.563	12.779	13.800	12.689
46-50	13.929	12.939	12.604	12.483	12.685
51-52	12.658	12.474			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4760	29.4590	29.4660	62.407	.000	.000
59-61				61.731	15.071	.000

READING # 49 AT 20:35:15 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.590	75.527	75.399	75.407	74.639
6-10	72.211	72.646	73.517	74.371	80.192
11-15	81.564	80.009	82.154	77.254	76.368
16-20	78.785	79.033	73.241	75.638	74.222
21-25	73.397	63.465	71.698	70.889	72.581
26-30	73.587	76.257	71.309	71.159	72.328
31-35	71.321	71.851	71.721	71.603	71.372
36-40	72.080	71.857	13.032	13.222	13.337
41-45	13.895	13.480	12.880	13.722	12.973
46-50	13.851	12.719	12.476	12.359	12.556
51-52	12.575	12.304			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4690	29.4530	29.4570	62.645	.000	.000
59-61				61.425	15.139	.000

READING # 50 AT 20:50:15 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.451	75.434	75.352	75.315	74.546
6-10	72.164	72.553	73.425	74.324	80.052
11-15	81.406	80.009	82.432	77.208	76.275
16-20	78.692	79.033	73.194	75.499	73.976
21-25	73.397	63.465	71.652	70.797	72.581
26-30	73.541	75.979	71.263	71.020	72.467
31-35	71.274	71.851	71.675	71.510	71.372
36-40	72.034	71.857	13.004	13.057	13.309
41-45	13.776	13.499	12.899	13.694	13.221
46-50	13.870	13.059	12.540	12.418	12.712
51-52	12.639	12.410			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4670	29.4490	29.4550	62.317	.000	.000
59-61				61.297	15.125	.000

READING # 51 AT 21: 5:14 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.451	75.366	75.366	75.315	74.546
6-10	72.164	72.553	73.423	74.324	80.052
11-15	81.683	79.962	82.128	76.976	76.322
16-20	78.738	78.986	73.194	75.532	74.022
21-25	73.397	63.373	71.652	70.797	72.581
26-30	73.448	76.118	71.263	71.067	72.235
31-35	71.321	71.805	71.629	71.510	71.326
36-40	71.987	71.811	12.848	13.818	13.383
41-45	14.716	13.526	13.018	13.768	13.476
46-50	13.897	13.040	12.521	12.451	12.648
51-52	12.575	12.442			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4620	29.4440	29.4500	62.026	.000	.000
59-61				60.766	17.116	.000

READING # 52 AT 21:20:14 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.451	75.388	75.352	75.315	74.520
6-10	72.118	72.553	73.425	74.324	80.026
11-15	81.035	80.009	82.340	76.883	76.275
16-20	78.646	76.940	73.194	75.532	74.022
21-25	73.350	63.373	71.652	70.750	72.535
26-30	73.448	75.932	71.217	71.020	72.374
31-35	71.274	71.758	71.536	71.513	71.326
36-40	71.941	71.764	12.894	14.034	13.383
41-45	14.853	13.526	13.264	13.813	13.616
46-50	13.897	12.949	12.567	12.466	12.694
51-52	12.667	12.442			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4590	29.4420	29.4470	61.646	.000	.000
59-61				60.548	15.233	.000

READING # 53 AT 21:35:13 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.404	75.235	75.326	75.222	74.454
6-10	72.072	72.553	73.378	74.324	80.006
11-15	81.871	80.009	82.061	76.930	76.136
16-20	78.692	78.986	73.194	75.543	74.022
21-25	73.350	63.419	71.559	70.750	72.488
26-30	73.402	75.747	71.217	71.067	72.142
31-35	71.135	71.666	71.536	71.417	71.326
36-40	71.941	71.764	12.935	13.461	13.346
41-45	14.450	13.490	12.890	13.823	13.212
46-50	13.861	13.233	12.576	12.501	12.749
51-52	12.676	12.492			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4560	29.4360	29.4430	61.587	.000	.000
59-61				60.211	15.130	.000

READING # 54 AT 21:50:13 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	70.312	75.249	75.213	75.222	74.427
6-10	72.025	72.507	73.286	74.232	75.960
11-15	81.546	79.823	81.875	76.883	75.957
16-20	78.526	78.847	73.055	75.685	73.929
21-25	73.258	63.280	71.559	70.657	72.396
26-30	73.309	75.423	71.124	71.067	72.023
31-35	71.135	71.620	71.490	71.325	71.141
36-40	71.848	71.572	12.940	13.543	13.291
41-45	13.804	13.435	12.743	13.813	12.882
46-50	13.806	13.453	12.521	12.496	12.634
51-52	12.667	12.483			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4510	29.4320	29.4390	61.457	.000	.000
59-61				59.859	15.354	.000

READING # 55 AT 22: 5:13 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	70.312	75.202	75.213	75.129	74.407
6-10	72.025	72.460	73.286	74.278	75.960
11-15	81.731	79.916	82.108	77.069	75.951
16-20	78.526	78.801	73.102	75.638	73.929
21-25	73.258	63.373	71.513	70.657	72.349
26-30	73.309	75.562	71.078	71.113	72.320
31-35	71.181	71.666	71.536	71.371	71.141
36-40	71.895	71.672	12.995	13.548	13.246
41-45	13.900	13.535	13.119	13.818	12.845
46-50	13.856	13.279	12.576	12.521	12.749
51-52	12.722	12.538			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4480	29.4280	29.4340	60.786	.000	.000
59-61				59.675	15.422	.000

READING # 56 AT 22:20:13 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	70.312	75.156	75.121	75.263	74.314
6-10	71.979	72.414	73.286	74.232	80.192
11-15	81.499	79.823	81.783	76.837	75.904
16-20	78.506	78.801	73.055	75.499	73.929
21-25	73.212	63.326	71.513	70.611	72.396
26-30	73.170	75.608	71.078	71.020	72.023
31-35	71.135	71.573	71.442	71.371	71.141
36-40	71.802	71.625	13.069	13.076	13.328
41-45	14.436	13.471	13.606	13.850	13.056
46-50	13.842	13.077	12.558	12.533	12.776
51-52	12.703	12.524			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4450	29.4250	29.4310	60.399	.000	.000
59-61				59.301	15.287	.000

READING # 57 AT 22:35:13 11/24/87

POINTS:

	TEMPERATURE (FAHRENHEIT)				
1-5	70.265	75.110	75.121	75.036	74.314
6-10	71.979	72.367	73.239	74.232	79.913
11-15	81.592	79.823	81.922	76.883	75.858
16-20	78.414	78.708	73.055	75.638	73.976
21-25	73.212	63.234	71.466	70.518	72.303
26-30	73.170	75.469	70.985	70.928	72.003
31-35	71.042	71.527	71.443	71.325	71.095
36-40	71.756	71.625	13.078	12.947	13.383
41-45	14.441	13.526	13.615	13.813	12.836
46-50	13.851	12.949	12.567	12.496	12.831
51-52	12.713	12.529			

PRESSURE (PSIA)

53-55, 56-58
59-61

29.4410 29.4200 29.4270

DEW POINT TEMPERATURE

60.364 .000 .000
59.153 15.233 .000

READING # 58 AT 22:50:12 11/24/87

POINTS:

	TEMPERATURE (FAHRENHEIT)				
1-5	70.219	75.017	74.935	75.036	74.268
6-10	71.979	72.367	73.147	74.139	79.913
11-15	81.638	79.869	82.061	76.837	75.767
16-20	78.367	78.755	73.009	75.592	73.929
21-25	73.113	63.234	71.374	70.518	72.256
26-30	73.124	75.469	70.892	70.835	72.003
31-35	70.950	71.481	71.258	71.232	71.048
36-40	71.709	71.533	13.014	12.837	13.273
41-45	14.152	13.508	13.780	13.841	12.638
46-50	13.787	12.751	12.553	12.524	12.818
51-52	12.694	12.515			

PRESSURE (PSIA)

53-55, 56-58
59-61

29.4350 29.4160 29.4210

DEW POINT TEMPERATURE

60.341 .000 .000
58.860 15.350 .000

READING # 59 AT 23: 5:12 11/24/87

POINTS:

	TEMPERATURE (FAHRENHEIT)				
1-5	70.265	75.063	74.981	74.990	74.260
6-10	71.979	72.414	73.239	74.185	79.867
11-15	81.313	79.823	82.340	76.837	75.765
16-20	78.367	78.708	73.055	75.638	73.929
21-25	73.212	63.234	71.420	70.565	72.256
26-30	73.124	75.515	70.985	70.835	71.910
31-35	71.089	71.527	71.351	71.325	71.095
36-40	71.756	71.579	13.261	12.856	13.337
41-45	13.987	13.526	13.431	13.859	13.065
46-50	13.851	12.719	12.613	12.583	12.923
51-52	12.804	12.621			

PRESSURE (PSIA)

53-55, 56-58
59-61

29.4330 29.4140 29.4190

DEW POINT TEMPERATURE

59.905 .000 .000
58.586 15.404 .000

READING # 60 AT 23:20:12 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	70.173	75.017	74.981	74.990	74.832
6-10	71.932	72.367	73.193	74.185	80.099
11-15	81.453	79.823	81.968	77.162	75.765
16-20	78.321	78.755	73.055	75.592	73.929
21-25	73.119	63.234	71.420	70.518	72.303
26-30	73.077	75.284	70.892	70.835	71.957
31-35	70.996	71.573	71.258	71.232	71.002
36-40	71.709	71.530	13.243	12.791	13.318
41-45	13.785	13.534	13.183	13.836	13.368
46-50	13.879	12.838	12.641	12.565	12.951
51-52	12.832	12.802			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4290	29.4090	29.4150	59.432	.000	.000
59-61				58.393	15.265	.000

READING # 61 AT 23:35:12 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	70.173	74.924	74.889	74.944	74.129
6-10	71.880	72.321	73.147	74.139	80.099
11-15	81.453	79.730	82.340	77.069	75.672
16-20	78.274	78.523	73.009	75.685	73.883
21-25	73.073	63.141	71.327	70.426	72.256
26-30	72.985	75.376	70.846	70.789	71.818
31-35	70.996	71.481	71.212	71.139	71.002
36-40	71.663	71.486	13.225	12.635	13.254
41-45	13.721	13.400	13.119	13.777	13.166
46-50	13.815	12.912	12.622	12.547	12.887
51-52	12.768	12.492			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4250	29.4040	29.4110	59.095	.000	.000
59-61				58.041	15.364	.000

READING # 62 AT 23:50:12 11/24/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	70.219	74.924	74.935	74.990	74.175
6-10	71.932	72.367	73.147	74.185	80.099
11-15	81.453	79.777	81.968	76.883	75.672
16-20	78.182	78.569	73.009	75.638	73.883
21-25	73.119	63.141	71.327	70.426	72.256
26-30	73.031	75.376	70.892	70.928	71.818
31-35	70.996	71.527	71.212	71.186	70.863
36-40	71.617	71.440	13.170	12.672	13.337
41-45	13.758	13.526	13.202	13.813	12.973
46-50	13.851	13.132	12.613	12.583	12.923
51-52	12.804	12.575			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4250	29.4050	29.4100	59.243	.000	.000
59-61				57.722	15.337	.000

READING # 63 AT 0: 5:12 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.126	74.924	74.842	74.857	74.129
6-10	71.840	72.275	73.054	74.139	80.006
11-15	81.221	79.777	82.386	76.605	75.672
16-20	78.135	78.523	72.916	75.453	73.837
21-25	73.073	63.095	71.235	70.379	72.164
26-30	72.892	75.191	70.800	70.696	71.910
31-35	70.857	71.342	71.165	71.139	70.863
36-40	71.524	71.394	13.096	12.782	13.355
41-45	13.822	13.499	13.128	13.786	12.900
46-50	13.824	13.059	12.586	12.556	12.896
51-52	12.823	12.685			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4220	29.4020	29.4070	58.717	.000	.000
59-61				57.699	15.580	.000

READING # 64 AT 0:20:11 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.126	74.832	74.842	74.851	74.175
6-10	71.932	72.367	73.100	74.139	80.145
11-15	81.267	79.823	82.154	77.069	75.811
16-20	78.135	78.476	72.963	75.545	73.883
21-25	73.073	63.095	71.327	70.379	72.210
26-30	72.985	75.376	70.846	70.928	71.771
31-35	70.950	71.342	71.119	71.139	70.909
36-40	71.617	71.440	13.271	13.323	13.392
41-45	13.946	13.535	13.303	13.818	12.937
46-50	13.610	12.958	12.666	12.593	13.024
51-52	12.859	12.721			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-59	29.4190	29.3980	29.4030	58.608	.000	.000
59-61				57.335	15.562	.000

READING # 65 AT 0:35:11 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.126	74.878	74.796	74.851	74.129
6-10	71.886	72.275	73.100	74.093	80.006
11-15	81.313	79.777	82.061	76.976	75.765
16-20	78.135	78.476	72.963	75.592	73.929
21-25	73.073	63.141	71.281	70.426	72.164
26-30	72.938	75.376	70.800	70.835	71.910
31-35	70.903	71.388	71.073	71.139	70.909
36-40	71.570	71.440	13.243	13.708	13.410
41-45	13.918	13.508	13.137	13.836	12.863
46-50	13.787	12.930	12.686	12.657	13.042
51-52	12.878	12.786			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4140	29.3940	29.4010	58.577	.000	.000
59-61				57.096	15.445	.000

READING # 66 AT 0:50:11 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.034	74.739	74.750	74.804	74.036
6-10	71.793	72.228	73.054	74.093	80.099
11-15	81.360	79.637	81.922	77.023	75.672
16-20	78.042	78.245	72.916	75.545	73.837
21-25	73.027	63.049	71.235	70.286	72.117
26-30	72.846	75.330	70.753	70.742	71.679
31-35	70.811	71.249	71.026	71.000	70.817
36-40	71.524	71.347	13.197	13.066	13.273
41-45	14.056	13.462	13.000	13.795	12.772
46-50	13.787	12.884	12.686	12.565	12.951
51-52	12.832	12.694			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-50	29.4120	29.3910	29.3970	58.005	.000	.000
59-61				56.867	15.571	.000

READING # 67 AT 1: 5:11 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.126	74.785	74.750	74.804	74.082
6-10	71.866	72.275	73.054	74.093	79.867
11-15	81.592	79.730	82.479	77.115	75.672
16-20	77.950	78.430	72.916	75.638	73.929
21-25	73.027	63.049	71.281	70.333	72.164
26-30	72.892	75.284	70.800	71.067	71.771
31-35	70.857	71.296	71.119	71.093	70.817
36-40	71.524	71.394	13.399	12.856	13.291
41-45	14.033	13.526	13.064	13.768	12.152
46-50	13.806	13.361	12.751	12.629	13.015
51-52	12.850	12.712			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4100	29.3900	29.3960	57.969	.000	.000
59-61				56.660	15.562	.000

READING # 68 AT 1:20:38 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.080	74.739	74.703	74.712	73.990
6-10	71.840	72.228	73.054	74.093	79.774
11-15	81.360	79.591	82.061	77.115	75.672
16-20	77.950	78.337	72.870	75.592	73.883
21-25	73.027	63.003	71.235	70.286	72.117
26-30	72.799	75.191	70.661	70.881	71.771
31-35	70.811	71.249	71.026	71.046	70.770
36-40	71.478	71.301	13.353	12.764	13.245
41-45	14.349	13.480	13.248	13.768	12.927
46-50	13.760	13.866	12.659	12.583	13.015
51-52	12.850	12.666			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4100	29.3880	29.3940	57.695	.000	.000
59-61				56.435	15.431	.000

READING # 69 AT 1:35:38 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	70.034	74.693	74.703	74.712	73.990
6-10	71.840	72.182	73.007	74.046	79.867
11-15	81.685	79.684	82.061	77.023	75.626
16-20	77.950	78.337	72.916	75.638	73.837
21-25	72.980	63.003	71.235	70.240	72.117
26-30	72.799	75.191	70.707	70.881	71.679
31-35	70.764	71.296	71.026	71.046	70.817
36-40	71.478	71.347	13.399	12.672	13.245
41-45	14.033	13.480	13.431	13.813	13.937
46-50	13.714	13.224	12.705	12.629	13.015
51-52	12.896	12.666			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4060	29.3840	29.3900	57.519	.000	.000
59-61				56.174	15.490	.000

READING # 70 AT 1:50:38 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	70.034	74.693	74.657	74.665	73.990
6-10	71.886	72.275	73.054	74.093	79.867
11-15	81.406	79.777	82.061	77.115	75.719
16-20	77.903	78.384	72.916	75.685	73.837
21-25	73.027	63.003	71.188	70.240	72.025
26-30	72.753	75.330	70.661	70.742	71.818
31-35	70.764	71.203	71.026	71.046	70.724
36-40	71.478	71.301	13.353	12.718	13.291
41-45	13.758	13.480	13.385	13.813	13.432
46-50	13.714	12.994	12.705	12.629	12.969
51-52	12.896	12.666			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4020	29.3800	29.3870	57.119	.000	.000
59-61				55.872	15.395	.000

READING # 71 AT 2: 5:38 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	70.080	74.693	74.703	74.712	74.036
6-10	71.886	72.275	73.054	74.093	79.960
11-15	81.406	79.730	82.293	77.208	75.672
16-20	77.903	78.337	72.916	75.870	73.883
21-25	73.027	63.095	71.235	70.286	72.071
26-30	72.799	75.376	70.707	70.928	71.725
31-35	70.811	71.249	71.026	71.046	70.770
36-40	71.524	71.301	13.381	12.700	13.318
41-45	13.827	13.508	13.046	13.882	13.047
46-50	13.787	13.205	12.732	12.657	13.042
51-52	12.969	12.740			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.4020	29.3810	29.3870	57.344	.000	.000
59-61				55.733	15.562	.000

READING # 72 AT 2:20:39 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.987	74.693	74.611	74.573	73.943
6-10	71.747	72.182	72.915	74.046	79.821
11-15	81.313	79.684	82.108	77.208	75.579
16-20	77.857	78.384	72.870	75.870	73.790
21-25	72.934	62.910	71.142	70.194	72.025
26-30	72.707	75.052	70.661	70.603	71.679
31-35	70.811	71.249	70.980	71.000	70.770
36-40	71.385	71.255	13.188	13.057	13.309
41-45	14.005	13.499	12.858	13.786	12.767
46-50	13.732	12.880	12.728	12.652	12.992
51-52	12.868	12.735			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3990	29.3780	29.3840	56.903	.000	.000
59-61				55.517	15.458	.000

READING # 73 AT 2:36:28 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.987	74.646	74.611	74.573	73.943
6-10	71.747	72.136	72.961	74.046	79.774
11-15	81.546	79.637	81.875	77.115	75.626
16-20	77.857	78.337	72.870	75.870	73.730
21-25	72.934	62.956	71.142	70.240	72.025
26-30	72.707	75.469	70.614	70.928	71.725
31-35	70.764	71.249	70.980	70.904	70.724
36-40	71.431	71.255	13.280	13.562	13.309
41-45	13.868	13.499	12.761	13.740	13.083
46-50	13.732	12.692	12.723	12.648	12.942
51-52	12.914	12.685			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3960	29.3770	29.3820	56.822	.000	.000
59-61				55.301	15.471	.000

READING # 74 AT 2:51:28 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	70.034	74.693	74.657	74.665	73.943
6-10	71.793	72.182	73.007	74.046	79.728
11-15	81.267	79.684	81.922	77.069	75.672
16-20	77.810	78.291	72.916	75.917	73.837
21-25	72.980	62.910	71.142	70.194	72.025
26-30	72.753	75.098	70.661	70.835	71.632
31-35	70.811	71.203	71.026	71.000	70.770
36-40	71.478	71.255	13.032	13.864	13.291
41-45	13.804	13.480	12.880	13.768	13.203
46-50	13.714	12.949	12.705	12.675	13.015
51-52	12.942	12.758			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3950	29.3730	29.3780	56.624	.000	.000
59-61				55.058	15.548	.000

READING # 75 AT 3: 6:28 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.987	74.600	74.611	74.573	73.897
6-10	71.793	72.136	72.915	74.000	79.913
11-15	81.360	79.730	81.875	77.069	75.579
16-20	77.764	78.245	72.824	75.917	73.790
21-25	72.934	62.910	71.142	70.147	71.978
26-30	72.660	75.098	70.661	70.696	71.493
31-35	70.718	71.157	70.934	70.954	70.678
36-40	71.385	71.209	13.225	14.557	13.392
41-45	14.679	13.490	13.119	13.777	13.579
46-50	13.723	12.958	12.668	12.639	12.978
51-52	12.905	12.721			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3920	29.3710	29.3770	56.201	.000	.000
59-61				54.860	15.499	.000

READING # 76 AT 3:21:28 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.987	74.646	74.611	74.619	73.943
6-10	71.793	72.182	73.007	74.093	80.006
11-15	81.546	79.730	82.154	77.162	75.626
16-20	77.810	78.291	72.916	75.963	73.837
21-25	72.980	62.956	71.142	70.240	72.025
26-30	72.707	75.330	70.614	70.696	71.725
31-35	70.718	71.203	70.934	71.000	70.724
36-40	71.385	71.255	13.289	14.392	13.410
41-45	14.926	13.554	13.137	13.836	13.827
46-50	13.787	12.976	12.778	12.749	13.042
51-52	12.969	12.786			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3970	29.3750	29.3790	56.115	.000	.000
59-61				54.689	15.530	.000

READING # 77 AT 3:36:29 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.895	74.554	74.518	74.480	73.850
6-10	71.747	72.182	72.915	74.000	79.774
11-15	81.406	79.637	82.479	77.023	75.487
16-20	77.764	78.245	72.824	75.917	73.790
21-25	72.934	62.864	71.096	70.147	72.025
26-30	72.614	75.237	70.614	70.789	71.771
31-35	70.764	71.110	70.841	70.907	70.631
36-40	71.339	71.162	13.362	13.598	13.346
41-45	14.312	13.490	12.798	13.777	13.120
46-50	13.677	13.233	12.668	12.639	12.978
51-52	12.951	12.813			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3890	29.3680	29.3740	55.782	.000	.000
59-61				54.464	15.422	.000

READING # 78 AT 3:51:29 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.987	74.554	74.518	74.526	73.850
6-10	71.747	72.182	72.961	74.000	79.960
11-15	81.406	79.637	82.154	77.069	75.579
16-20	77.718	78.152	72.824	75.963	73.790
21-25	72.888	62.910	71.142	70.194	71.978
26-30	72.660	75.052	70.614	70.835	71.725
31-35	70.718	71.157	70.887	70.954	70.678
36-40	71.385	71.162	13.161	13.809	13.373
41-45	13.886	13.517	12.963	13.850	13.010
46-50	13.659	13.444	12.696	12.712	13.006
51-52	12.978	12.795			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3890	29.3670	29.3730	55.827	.000	.000
59-61				54.302	15.494	.000

READING # 79 A' 4: 6:29 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.987	74.600	74.564	74.526	73.897
6-10	71.793	72.228	73.007	74.046	79.960
11-15	81.592	79.684	82.340	77.115	75.626
16-20	77.718	78.337	72.824	75.963	73.790
21-25	72.934	62.864	71.142	70.147	72.025
26-30	72.660	75.006	70.614	71.113	71.725
31-35	70.718	71.157	70.980	70.954	70.631
36-40	71.431	71.209	13.454	13.644	13.392
41-45	13.813	13.535	13.303	13.823	12.937
46-50	13.677	13.233	12.714	12.684	13.070
51-52	12.951	12.813			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3860	29.3640	29.3700	55.481	.000	.000
59-61				54.090	15.562	.000

READING # 80 AT 4:21:29 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.941	74.507	74.518	74.480	73.850
6-10	71.747	72.136	72.915	74.046	79.913
11-15	81.360	79.637	82.200	77.069	75.626
16-20	77.718	78.198	72.824	76.009	73.790
21-25	72.888	62.817	71.049	70.101	71.978
26-30	72.568	75.191	70.568	70.742	71.864
31-35	70.672	71.110	70.795	70.861	70.585
36-40	71.339	71.162	13.188	13.103	13.401
41-45	14.418	13.499	13.633	13.786	13.042
46-50	13.641	13.017	12.682	12.744	12.992
51-52	12.914	12.781			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3820	29.3590	29.3660	55.238	.000	.000
59-61				53.906	15.724	.000

READING # 81 AT 4:36:29 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.941	74.554	74.472	74.526	73.850
6-10	71.701	72.089	72.961	74.046	79.867
11-15	81.592	79.637	81.783	77.115	75.348
16-20	77.671	78.198	72.824	76.009	73.744
21-25	72.934	62.864	71.142	70.147	71.932
26-30	72.568	75.191	70.568	70.789	71.632
31-35	70.672	71.110	70.841	70.861	70.585
36-40	71.385	71.162	13.482	12.984	13.419
41-45	14.482	13.517	13.743	13.804	12.827
46-50	13.659	12.939	12.696	12.712	13.006
51-52	12.978	12.795			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3820	29.3580	29.3640	55.049	.000	.000
59-61				53.735	15.661	.000

READING # 82 AT 4:51:29 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.941	74.554	74.518	74.526	73.804
6-10	71.747	72.182	72.915	74.046	79.821
11-15	81.081	79.591	81.968	77.069	75.579
16-20	77.718	78.198	72.778	76.102	73.744
21-25	72.934	62.817	71.049	70.101	71.932
26-30	72.568	75.237	70.522	70.789	71.725
31-35	70.625	71.064	70.934	70.907	70.678
36-40	71.339	71.162	13.261	12.947	13.428
41-45	14.166	13.480	13.798	13.809	12.698
46-50	13.664	12.719	12.705	12.721	13.061
51-52	12.987	12.758			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3810	29.3600	29.3640	55.107	.000	.000
59-61				53.487	15.656	.000

READING # 83 AT 5: 6:30 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.941	74.507	74.518	74.573	73.804
6-10	71.793	72.182	72.915	74.046	79.867
11-15	81.267	79.730	82.386	76.976	75.440
16-20	77.625	78.059	72.824	76.102	73.744
21-25	72.888	62.864	71.096	70.147	72.025
26-30	72.614	75.191	70.568	70.650	71.771
31-35	70.672	71.064	70.841	70.954	70.631
36-40	71.385	71.209	13.528	12.892	13.419
41-45	13.927	13.517	13.468	13.800	13.056
46-50	13.705	12.664	12.741	12.758	13.052
51-52	13.024	12.795			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3790	29.3580	29.3620	54.536	.000	.000
59-61				53.303	15.669	.000

READING # 84 AT 5:21:30 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.895	74.554	74.518	74.480	73.804
6-10	71.793	72.136	72.961	74.046	79.821
11-15	81.546	79.637	81.875	77.023	75.533
16-20	77.625	78.245	72.824	76.241	73.837
21-25	72.888	62.864	71.096	70.147	71.978
26-30	72.614	74.959	70.522	70.650	71.679
31-35	70.672	70.971	70.887	70.861	70.631
36-40	71.292	71.209	13.491	12.718	13.428
41-45	13.758	13.526	13.294	13.768	13.340
46-50	13.668	12.765	12.705	12.721	13.107
51-52	13.033	12.712			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3760	29.3530	29.3600	54.617	.000	.000
59-61				53.069	15.512	.000

READING # 85 AT 5:36:31 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.895	74.507	74.425	74.480	73.758
6-10	71.701	72.136	72.868	74.000	80.006
11-15	81.313	79.591	82.386	77.023	75.533
16-20	77.625	78.059	72.778	76.288	73.744
21-25	72.842	62.771	71.049	70.101	71.886
26-30	72.521	74.959	70.475	70.557	71.540
31-35	70.625	70.971	70.841	70.861	70.585
36-40	71.292	71.116	13.427	12.608	13.364
41-45	13.694	13.462	13.183	13.704	13.139
46-50	13.696	12.843	12.691	12.799	13.134
51-52	13.061	12.698			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3750	29.3510	29.3570	54.320	.000	.000
59-61				52.938	15.647	.000

READING # 86 AT 5:51:31 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.848	74.507	74.425	74.480	73.804
6-10	71.747	72.136	72.868	74.046	80.099
11-15	81.128	79.637	81.968	76.976	75.533
16-20	77.671	78.152	72.824	76.427	73.790
21-25	72.934	62.817	71.049	70.101	71.978
26-30	72.521	75.191	70.522	70.650	71.586
31-35	70.625	71.018	70.841	70.861	70.585
36-40	71.339	71.162	13.518	12.745	13.410
41-45	13.694	13.462	13.183	13.795	12.955
46-50	13.742	13.068	12.778	12.794	13.180
51-52	13.107	12.786			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3750	29.3520	29.3580	54.257	.000	.000
59-61				52.767	15.773	.000

READING # 87 AT 6: 6:31 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.895	74.461	74.379	74.434	73.711
6-10	71.701	72.136	72.868	74.000	79.867
11-15	81.035	79.591	82.108	77.023	75.301
16-20	77.578	78.059	72.778	76.334	73.744
21-25	72.888	62.771	71.049	70.054	71.932
26-30	72.521	74.959	70.522	70.881	71.540
31-35	70.672	70.971	70.841	70.861	70.539
36-40	71.339	71.162	13.298	12.846	13.373
41-45	13.744	13.471	13.147	13.754	12.872
46-50	13.659	12.939	12.696	12.804	13.143
51-52	13.024	12.841			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3710	29.3500	29.3550	53.960	.000	.000
59-61				52.547	15.751	.000

READING # 86 AT 6:21:31 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.895	74.461	74.425	74.341	73.711
6-10	71.701	72.182	72.868	74.000	79.867
11-15	81.081	79.591	82.340	77.023	75.394
16-20	77.578	78.152	72.778	76.381	73.744
21-25	72.842	62.771	71.003	70.054	71.932
26-30	72.521	75.237	70.522	70.789	71.771
31-35	70.672	70.971	70.841	70.861	70.585
36-40	71.339	71.162	13.298	13.076	13.373
41-45	13.836	13.471	13.284	13.754	12.827
46-50	13.613	12.802	12.696	12.758	13.189
51-52	13.024	12.886			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3710	29.3480	29.3540	53.834	.000	.000
59-61				52.389	15.715	.000

READING # 89 AT 6:36:32 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.848	74.461	74.379	74.434	73.758
6-10	71.701	72.089	72.868	74.046	79.913
11-15	81.035	79.637	82.479	76.976	75.394
16-20	77.578	78.013	72.778	76.473	73.744
21-25	72.888	62.817	71.003	70.054	71.932
26-30	72.475	75.006	70.475	70.789	71.679
31-35	70.579	70.971	70.795	70.815	70.585
36-40	71.292	71.162	13.326	13.516	13.401
41-45	13.822	13.499	13.128	13.786	12.762
46-50	13.687	12.783	12.723	12.785	13.217
51-52	13.006	12.868			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3680	29.3450	29.3510	53.704	.000	.000
59-61				52.210	15.706	.000

READING # 90 AT 6:51:32 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.895	74.415	74.379	74.294	73.758
6-10	71.747	72.182	72.915	74.000	80.006
11-15	81.035	79.637	82.200	76.976	75.440
16-20	77.578	78.105	72.824	76.381	73.744
21-25	72.888	62.771	71.049	70.054	71.932
26-30	72.521	75.191	70.522	70.789	71.540
31-35	70.672	70.971	70.841	70.861	70.631
36-40	71.339	71.209	13.390	12.984	13.373
41-45	13.927	13.517	13.009	13.754	12.735
46-50	13.659	12.893	12.741	12.804	13.281
51-52	13.070	12.886			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3680	29.3450	29.3500	53.546	.000	.000
59-61				52.057	15.733	.000

READING # 91 AT 7: 6:32 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.461	74.332	74.434	73.758
6-10	71.701	72.089	72.822	73.954	79.867
11-15	81.081	79.591	82.061	77.023	75.394
16-20	77.625	78.059	72.778	76.520	73.697
21-25	72.842	62.679	71.003	70.008	71.932
26-30	72.429	75.145	70.475	70.742	71.493
31-35	70.625	70.925	70.748	70.815	70.539
36-40	71.292	71.070	13.372	12.736	13.218
41-45	14.051	13.453	13.041	13.694	12.079
46-50	13.641	13.242	12.728	12.790	13.217
51-52	13.006	12.827			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3660	29.3430	29.3480	53.433	.000	.000
59-61				51.894	15.701	.000

READING # 92 AT 7:21:32 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.895	74.461	74.332	74.387	73.711
6-10	71.747	72.136	72.868	74.000	79.913
11-15	81.221	79.591	82.293	76.976	75.487
16-20	77.532	78.105	72.778	76.427	73.744
21-25	72.842	62.725	70.957	70.054	71.932
26-30	72.475	75.284	70.475	70.742	71.864
31-35	70.625	70.971	70.748	70.815	70.539
36-40	71.292	71.116	13.298	12.617	13.190
41-45	14.294	13.425	13.147	13.708	13.469
46-50	13.613	13.765	12.696	12.804	13.189
51-52	13.024	12.841			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3650	29.3420	29.3470	53.357	.000	.000
59-61				51.696	15.701	.000

READING # 93 AT 7:36:33 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.848	74.415	74.286	74.341	73.711
6-10	71.701	72.136	72.822	74.000	80.099
11-15	81.406	79.637	82.200	76.976	75.394
16-20	77.578	78.152	72.778	76.427	73.744
21-25	72.842	62.771	71.003	70.008	71.886
26-30	72.382	75.052	70.429	70.603	71.679
31-35	70.579	70.879	70.748	70.815	70.539
36-40	71.246	71.070	13.188	12.690	13.218
41-45	13.822	13.407	13.358	13.694	13.772
46-50	13.549	13.059	12.723	12.785	13.125
51-52	13.097	12.822			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3620	29.3400	29.3460	53.033	.000	.000
59-61				51.476	15.638	.000

READING # 94 AT 7:51:33 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.848	74.461	74.332	74.434	73.711
6-10	71.701	72.136	72.822	74.046	80.006
11-15	80.388	79.591	82.200	76.976	75.533
16-20	77.578	78.059	72.824	76.520	73.744
21-25	72.842	62.725	70.957	70.008	71.932
26-30	72.429	75.006	70.429	70.928	71.540
31-35	70.625	70.925	70.841	70.815	70.539
36-40	71.339	71.116	13.537	13.039	13.199
41-45	13.570	13.480	13.156	13.717	13.249
46-50	13.577	12.811	12.796	12.813	13.152
51-52	13.079	12.850			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3630	29.3390	29.3450	52.781	.000	.000
59-61				51.350	15.566	.000

READING # 95 AT 8: 6:33 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.848	74.415	74.240	74.387	73.665
6-10	71.701	72.136	72.868	74.000	79.960
11-15	81.174	79.637	82.108	76.976	75.394
16-20	77.532	78.105	72.778	76.473	73.697
21-25	72.842	62.725	71.003	70.008	71.886
26-30	72.429	74.959	70.475	70.650	71.818
31-35	70.672	70.925	70.795	70.861	70.585
36-40	71.292	71.162	13.619	13.167	13.282
41-45	13.653	13.471	12.917	13.754	12.827
46-50	13.567	12.939	12.787	12.849	13.143
51-52	13.070	12.841			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3580	29.3350	29.3420	52.880	.000	.000
59-61				51.211	15.679	.000

READING # 96 AT 8:21:33 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.848	74.415	74.332	74.434	73.758
6-10	71.747	72.136	72.868	74.093	80.099
11-15	81.360	79.637	81.922	77.023	75.467
16-20	77.578	78.198	72.824	76.520	73.790
21-25	72.934	62.725	71.003	70.008	71.886
26-30	72.521	75.330	70.475	70.650	71.725
31-35	70.625	70.971	70.841	70.861	72.585
36-40	71.339	71.116	13.537	13.360	13.337
41-45	13.891	13.480	12.972	13.809	12.744
46-50	13.622	12.765	12.842	12.859	13.152
51-52	13.125	12.896			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3610	29.3370	29.3440	52.255	.000	.000
59-61				51.048	15.629	.000

READING # 97 AT 8:36:34 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.848	74.461	74.286	74.434	73.758
6-10	71.747	72.089	72.868	74.046	80.052
11-15	81.313	79.730	82.340	76.976	75.626
16-20	77.578	78.105	72.824	76.427	73.744
21-25	72.842	62.679	71.003	70.008	71.886
26-30	72.429	75.145	70.429	70.636	71.679
31-35	70.579	70.925	70.748	70.861	72.539
36-40	71.292	71.070	13.454	13.415	13.346
41-45	13.813	13.444	13.027	13.731	13.074
46-50	13.586	12.682	12.851	12.868	13.162
51-52	13.134	12.813			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3590	29.3340	29.3400	52.570	.000	.000
59-61				50.909	15.629	.000

READING # 98 AT 8:51:34 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.368	74.193	74.341	73.665
6-10	71.654	72.043	72.729	73.954	80.006
11-15	81.128	79.637	81.968	76.976	75.440
16-20	77.486	77.966	72.685	76.427	73.697
21-25	72.842	62.679	70.957	69.962	71.839
26-30	72.382	74.913	70.475	70.742	71.493
31-35	70.579	70.879	70.748	70.815	70.492
36-40	71.246	71.070	13.252	13.121	13.282
41-45	13.978	13.379	12.871	13.713	13.148
46-50	13.522	12.852	12.787	12.849	13.097
51-52	13.070	12.795			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3570	29.3330	29.3380	52.034	.000	.000
59-61				50.684	15.607	.000

READING # 99 AT 9: 6:35 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.461	74.286	74.387	73.711
6-10	71.701	72.136	72.868	74.046	80.052
11-15	81.313	79.777	81.922	77.023	75.394
16-20	77.532	78.198	72.778	76.520	73.744
21-25	72.888	62.725	71.049	70.009	71.886
26-30	72.475	75.098	70.475	70.742	71.725
31-35	70.625	70.925	70.748	70.815	70.539
36-40	71.292	71.070	13.473	13.979	13.410
41-45	14.606	13.508	13.229	13.795	13.597
46-50	13.604	12.930	12.824	12.932	13.180
51-52	13.152	12.877			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3590	29.3350	29.3400	52.043	.000	.000
59-61				50.535	15.620	.000

READING #100 AT 9:21:35 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.895	74.461	74.332	74.434	73.804
6-10	71.793	72.136	72.915	74.139	80.099
11-15	81.360	79.684	82.061	77.069	75.487
16-20	77.578	78.198	72.870	76.613	73.790
21-25	72.980	62.725	71.049	70.101	71.932
26-30	72.475	75.098	70.522	70.835	71.586
31-35	70.625	71.064	70.795	70.768	70.678
36-40	71.385	71.209	13.317	14.011	13.438
41-45	15.229	13.535	13.073	13.823	13.717
46-50	13.632	12.958	12.851	12.914	13.207
51-52	13.226	12.951			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3600	29.3360	29.3400	51.917	.000	.000
59-61				50.414	15.656	.000

READING #101 AT 9:36:35 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.368	74.286	74.341	73.665
6-10	71.654	72.089	72.776	74.000	80.099
11-15	81.406	79.591	82.015	76.930	75.394
16-20	77.486	78.013	72.778	76.473	73.697
21-25	72.795	62.586	70.911	69.962	71.793
26-30	72.336	74.913	70.429	70.789	71.586
31-35	70.532	71.110	71.165	70.768	70.770
36-40	71.617	71.394	13.142	13.378	13.355
41-45	14.143	13.407	12.766	13.740	13.042
46-50	13.503	13.109	12.728	12.836	13.079
51-52	13.143	12.918			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3640	29.3410	29.3470	51.696	.000	.000
59-61				50.265	15.719	.000

READING #102 AT 9:51:36 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.848	74.415	74.332	74.387	73.711
6-10	71.701	72.089	72.822	74.046	80.052
11-15	81.267	79.684	82.618	77.069	75.440
16-20	77.532	78.105	72.778	76.520	73.744
21-25	72.842	62.725	71.003	70.054	71.886
26-30	72.382	75.145	70.614	70.650	71.818
31-35	70.718	71.249	71.212	71.093	71.048
36-40	71.987	71.857	13.197	13.571	13.410
41-45	13.785	13.462	12.862	13.795	12.909
46-50	13.512	13.297	12.824	12.932	13.180
51-52	13.152	12.969			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3720	29.3490	29.3540	51.787	.000	.000
59-61				50.108	15.625	.000

READING #103 AT 10: 6:36 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.415	74.332	74.434	73.711
6-10	71.701	72.089	72.822	74.046	80.238
11-15	80.942	79.730	82.525	77.115	75.487
16-20	77.532	78.152	72.824	76.566	73.744
21-25	72.888	62.679	71.049	70.101	71.886
26-30	72.429	75.423	70.661	70.696	71.818
31-35	70.764	71.296	71.212	71.232	71.141
36-40	71.987	71.764	13.243	13.387	13.456
41-45	13.827	13.508	13.367	13.795	12.909
46-50	13.558	13.160	12.824	12.932	13.226
51-52	13.152	12.969			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3710	29.3490	29.3550	51.219	.000	.000
59-61				50.024	15.679	.000

READING #104 AT 10:21:36 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.895	74.507	74.379	74.573	73.850
6-10	71.793	72.182	72.915	74.139	80.238
11-15	81.313	79.777	82.479	77.162	75.626
16-20	77.671	78.245	72.870	76.659	73.790
21-25	72.980	62.725	71.142	70.194	72.025
26-30	72.521	75.284	70.800	70.881	72.050
31-35	70.903	71.481	71.490	71.325	71.234
36-40	72.219	72.088	13.353	13.085	13.520
41-45	14.486	13.572	13.707	13.855	13.019
46-50	13.622	13.040	12.888	12.996	13.336
51-52	13.262	13.033			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3710	29.3490	29.3550	51.494	.000	.000
59-61				49.847	15.710	.000

READING #105 AT 10:36:37 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.848	74.461	74.379	74.480	73.758
6-10	71.747	72.089	72.868	74.093	80.099
11-15	81.081	79.730	82.618	77.069	75.533
16-20	77.625	78.245	72.824	76.613	73.790
21-25	72.888	62.679	71.049	70.147	71.932
26-30	72.429	75.237	70.800	70.928	71.586
31-35	70.903	71.388	71.443	71.278	71.187
36-40	71.987	71.811	13.353	13.085	13.474
41-45	14.670	13.526	13.798	13.809	13.019
46-50	13.531	13.040	12.888	12.950	13.290
51-52	13.171	12.941			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3690	29.3470	29.3510	51.301	.000	.000
59-61				49.694	15.634	.000

READING #106 AT 10:51:38 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.848	74.461	74.425	74.526	73.758
6-10	71.747	72.136	72.915	74.093	80.284
11-15	81.267	79.730	82.061	77.069	75.533
16-20	77.578	78.198	72.824	76.613	73.744
21-25	72.934	62.725	71.049	70.194	71.932
26-30	72.429	75.191	70.800	70.835	71.725
31-35	70.857	71.527	71.536	71.093	71.048
36-40	71.756	71.672	13.234	13.374	13.442
41-45	14.734	13.586	14.271	13.873	13.221
46-50	13.590	13.196	12.906	12.969	13.263
51-52	13.143	12.914			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3630	29.3400	29.3460	50.918	.000	.000
59-61				49.541	15.849	.000

READING #107 AT 11: 6:38 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.941	74.554	74.518	74.526	73.850
6-10	71.793	72.182	72.915	74.185	80.238
11-15	81.174	79.823	82.386	77.069	75.672
16-20	77.578	78.198	72.916	76.566	73.837
21-25	72.934	62.771	71.188	70.286	72.025
26-30	72.521	75.237	70.892	71.113	71.910
31-35	70.903	71.620	71.351	71.093	71.002
36-40	71.709	71.579	13.569	13.713	13.506
41-45	14.890	13.604	14.244	13.846	13.923
46-50	13.609	13.577	12.966	12.987	13.368
51-52	13.203	12.978			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3610	29.3370	29.3430	51.112	.000	.000
59-61				49.447	15.787	.000

READING #108 AT 11:21:39 11/25/87

POINTS:	TEMPERATURE (FAHRENHEIT)				
1- 5	69.802	74.461	74.379	74.434	73.758
6-10	71.747	72.089	72.868	74.093	80.377
11-15	80.942	79.684	82.479	77.069	75.394
16-20	77.578	78.245	72.824	76.566	73.790
21-25	72.888	62.679	71.049	70.147	71.839
26-30	72.475	75.284	70.753	70.835	72.096
31-35	70.764	71.481	70.980	71.046	70.863
36-40	71.570	71.440	13.858	13.814	13.474
41-45	14.991	13.572	14.345	13.809	14.437
46-50	13.577	13.912	12.980	12.950	13.336
51-52	13.262	13.033			

	PRESSURE (PSIA)			DEW POINT TEMPERATURE		
53-55, 56-58	29.3600	29.3360	29.3420	50.862	.000	.000
59-61				49.298	15.796	.000

READING #109 AT 11:36:40 11/25/87

POINTS:	TEMPERATURE (FAHRENHEIT)				
1- 5	69.802	74.461	74.379	74.434	73.758
6-10	71.701	72.089	72.822	74.046	80.284
11-15	81.031	79.823	82.618	77.069	75.579
16-20	77.532	78.059	72.778	76.566	73.697
21-25	72.842	62.725	71.049	70.147	71.747
26-30	72.475	75.098	70.661	70.974	71.864
31-35	70.718	71.342	70.867	71.046	70.770
36-40	71.478	71.301	13.922	13.974	13.447
41-45	15.192	13.499	14.501	13.786	14.501
46-50	13.549	14.344	12.952	12.969	13.400
51-52	13.327	13.006			

	PRESSURE (PSIA)			DEW POINT TEMPERATURE		
53-55, 56-58	29.3560	29.3350	29.3380	50.752	.000	.000
59-61				49.158	15.809	.000

READING #110 AT 11:51:43 11/25/87

POINTS:	TEMPERATURE (FAHRENHEIT)				
1- 5	69.756	74.415	74.379	74.480	73.711
6-10	71.701	72.089	72.868	74.046	80.238
11-15	81.313	79.684	82.293	76.976	75.348
16-20	77.532	78.105	72.778	76.613	73.744
21-25	72.795	62.725	71.003	70.101	71.700
26-30	72.429	75.145	70.614	70.881	71.818
31-35	70.718	71.296	70.841	70.954	70.770
36-40	71.385	71.255	13.872	14.199	13.396
41-45	15.417	13.540	14.547	13.781	14.501
46-50	13.590	14.660	12.952	12.923	13.400
51-52	13.368	13.006			

	PRESSURE (PSIA)			DEW POINT TEMPERATURE		
53-55, 56-58	29.3570	29.3350	29.3380	50.657	.000	.000
59-61				49.069	15.985	.000

READING #111 AT 12: 6:44 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.322	74.286	74.341	73.615
6-10	71.608	71.904	72.683	73.907	80.039
11-15	81.174	79.637	82.340	76.883	75.301
16-20	77.393	78.105	72.685	76.566	73.651
21-25	72.749	62.586	70.864	69.962	71.608
26-30	72.290	75.098	70.475	70.789	71.632
31-35	70.579	71.064	70.748	70.861	70.539
36-40	71.292	71.116	13.771	14.465	13.300
41-45	15.550	13.444	14.675	13.681	14.584
46-50	13.489	14.743	12.851	12.822	13.345
51-52	13.226	13.042			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3560	29.3320	29.3370	50.311	.000	.000
59-61				48.888	16.061	.000

READING #112 AT 12:21:44 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.368	74.286	74.434	73.665
6-10	71.654	71.997	72.776	73.954	80.238
11-15	81.174	79.730	81.875	76.837	75.579
16-20	77.439	78.013	72.731	76.566	73.697
21-25	72.735	62.679	70.957	70.054	71.561
26-30	72.336	75.145	70.568	70.974	71.493
31-35	70.625	71.064	70.702	70.907	70.631
36-40	71.339	71.116	14.083	15.277	13.424
41-45	15.765	13.522	15.033	13.717	14.713
46-50	13.526	14.734	12.929	12.900	13.403
51-52	13.304	13.120			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3580	29.3340	29.3380	50.576	.000	.000
59-61				48.785	15.935	.000

READING #113 AT 12:36:45 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.322	74.332	74.434	73.665
6-10	71.654	71.997	72.776	73.954	80.238
11-15	81.035	79.730	82.525	76.976	75.579
16-20	77.439	78.245	72.778	76.613	73.651
21-25	72.795	62.679	70.957	70.054	71.654
26-30	72.382	75.006	70.522	70.789	71.818
31-35	70.625	70.971	70.656	70.861	70.539
36-40	71.292	71.116	14.152	15.575	13.447
41-45	15.880	13.545	15.052	13.740	14.777
46-50	13.549	14.890	12.952	12.969	13.446
51-52	13.372	13.143			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3540	29.3290	29.3350	50.014	.000	.000
59-61				48.677	15.976	.000

READING #114 AT 12:51:46 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.368	74.332	74.480	73.619
6-10	71.654	71.997	72.729	74.000	80.145
11-15	81.267	79.730	82.665	77.223	75.579
16-20	77.439	78.105	72.778	76.613	73.697
21-25	72.795	62.832	70.911	70.054	71.700
26-30	72.382	75.237	70.522	70.696	72.003
31-35	70.625	70.971	70.748	70.861	70.539
36-40	71.292	71.116	14.138	15.199	13.433
41-45	16.141	13.535	15.089	13.726	14.905
46-50	13.581	15.156	12.989	12.914	13.437
51-52	13.317	12.180			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3550	29.3300	29.3330	50.288	.000	.000
59-61				48.510	15.945	.000

READING #115 AT 13: 6:46 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.415	74.425	74.480	73.758
6-10	71.747	72.136	72.868	74.093	80.331
11-15	81.174	79.777	82.340	77.069	75.672
16-20	77.532	78.291	72.824	76.706	73.790
21-25	72.888	62.771	71.003	70.101	71.793
26-30	72.475	75.330	70.568	71.113	71.679
31-35	70.672	71.203	71.165	70.861	70.770
36-40	71.570	71.486	14.427	15.116	13.493
41-45	16.563	13.636	15.373	13.832	14.547
46-50	13.687	15.670	13.090	13.060	13.538
51-52	13.464	13.372			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3610	29.3370	29.3430	49.806	.000	.000
59-61				48.402	15.989	.000

READING #116 AT 13:21:47 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.461	74.425	74.526	73.758
6-10	71.747	72.136	72.868	74.093	80.284
11-15	81.221	79.730	82.293	77.069	75.719
16-20	77.486	78.198	72.824	76.706	73.790
21-25	72.888	62.771	71.049	70.194	71.886
26-30	72.475	75.376	70.661	70.835	71.910
31-35	70.718	71.342	71.212	71.232	71.141
36-40	72.173	72.227	14.450	15.144	13.520
41-45	16.728	13.664	15.630	13.809	16.177
46-50	13.755	16.203	13.072	13.088	13.473
51-52	13.446	13.354			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3730	29.3480	29.3540	49.811	.000	.000
59-61				48.272	16.057	.000

READING #117 AT 13:36:48 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.756	74.322	74.286	74.480	73.665
6-10	71.654	72.043	72.776	74.020	80.099
11-15	80.849	79.637	82.386	76.976	75.487
16-20	77.393	78.152	72.778	76.566	73.597
21-25	72.795	62.725	71.003	70.101	71.839
26-30	72.475	75.376	70.707	70.835	71.771
31-35	70.811	71.342	71.165	71.325	71.234
36-40	72.126	71.949	14.854	15.181	13.465
41-45	16.352	13.609	15.759	13.754	16.264
46-50	13.751	15.643	13.017	13.033	13.464
51-52	13.462	13.253			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3670	29.3420	29.3480	49.791	.000	.000
59-61				48.173	15.946	.000

READING #118 AT 13:51:49 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.602	74.461	74.425	74.619	73.604
6-10	71.793	72.182	72.915	74.093	80.331
11-15	80.803	79.823	82.804	77.023	75.765
16-20	77.032	78.245	72.870	76.706	73.637
21-25	72.582	62.817	71.142	70.286	71.932
26-30	72.568	75.376	70.846	71.067	72.003
31-35	70.903	71.573	71.450	71.232	71.187
36-40	71.941	71.764	15.231	16.474	13.474
41-45	16.320	13.710	15.722	13.859	15.768
46-50	13.897	15.652	13.163	13.088	13.657
51-52	13.583	13.400			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3640	29.3430	29.3460	49.622	.000	.000
59-61				48.065	15.553	.000

READING #119 AT 14: 6:50 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.415	74.379	74.526	73.711
6-10	71.701	72.043	72.822	74.046	80.238
11-15	81.221	79.777	82.386	77.069	75.579
16-20	77.486	78.245	72.778	76.706	73.744
21-25	72.842	62.771	71.049	70.147	71.747
26-30	72.475	75.284	70.753	71.067	71.910
31-35	70.764	71.527	71.397	70.954	70.956
36-40	71.617	71.486	15.653	17.075	13.483
41-45	16.329	13.673	15.364	13.777	15.410
46-50	13.906	15.615	13.127	13.005	13.574
51-52	13.546	13.317			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3600	29.3380	29.3410	49.474	.000	.000
59-61				47.512	16.088	.000

READING #120 AT 14:21:50 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.602	74.461	74.375	74.619	73.804
6-10	71.793	72.136	72.915	74.093	80.331
11-15	81.174	75.916	82.665	77.162	75.672
16-20	77.578	78.245	72.870	76.798	73.837
21-25	72.934	62.864	71.142	70.240	71.839
26-30	72.568	75.469	70.800	71.067	71.679
31-35	70.811	71.573	71.165	71.046	70.863
36-40	71.617	71.486	16.030	17.727	13.676
41-45	16.517	13.726	15.373	13.878	15.862
46-50	13.961	15.624	13.227	13.152	13.721
51-52	13.601	13.464			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3600	29.3360	29.3410	49.649	.000	.000
59-61				47.831	15.962	.000

READING #121 AT 14:36:52 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.848	74.507	74.472	74.665	73.850
6-10	71.840	72.228	70.961	74.185	80.377
11-15	81.174	75.916	82.897	77.162	75.811
16-20	77.578	78.291	72.870	76.752	73.863
21-25	72.934	62.864	71.036	70.286	71.839
26-30	72.566	75.330	70.800	70.928	72.056
31-35	70.857	71.573	70.980	71.139	70.909
36-40	71.570	71.486	16.425	16.034	13.749
41-45	16.590	13.755	15.355	13.951	15.722
46-50	14.035	15.606	12.321	13.180	13.749
51-52	13.675	13.491			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3600	29.3390	29.3430	49.518	.000	.000
59-61				47.709	16.212	.000

READING #122 AT 14:51:53 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.415	74.375	74.573	73.758
6-10	71.701	72.089	72.868	74.093	80.331
11-15	81.267	75.869	82.665	77.115	75.719
16-20	77.532	78.245	72.824	76.752	73.790
21-25	72.888	62.864	71.049	70.194	71.700
26-30	72.521	75.330	70.707	70.928	71.632
31-35	70.718	71.388	70.887	71.093	70.770
36-40	71.431	71.301	16.443	18.323	13.768
41-45	16.471	13.728	15.373	13.878	15.833
46-50	14.007	15.762	13.227	13.152	13.721
51-52	13.601	13.464			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3590	29.3370	29.3430	49.158	.000	.000
59-61				47.597	16.106	.000

READING #123 AT 15: 6:54 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.461	74.425	74.573	73.524
6-10	71.793	72.182	72.915	74.093	62.331
11-15	81.453	79.823	82.293	77.228	75.763
16-20	77.486	78.245	72.872	76.752	73.790
21-25	72.888	62.864	71.096	70.286	71.747
26-30	72.568	75.654	70.753	70.881	72.003
31-35	70.857	71.388	70.934	71.093	70.770
36-40	71.524	71.347	15.176	18.112	13.965
41-45	17.452	13.792	15.805	13.891	16.443
46-50	14.067	16.010	13.292	13.170	13.694
51-52	13.711	13.528			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3550	29.3340	29.3390	49.253	.200	.200
59-61				47.530	16.079	.200

READING #124 AT 15:21:54 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.368	74.332	74.526	73.711
6-10	71.701	72.089	72.822	74.020	62.331
11-15	81.274	79.730	82.247	77.115	75.672
16-20	77.532	78.198	72.824	76.752	73.792
21-25	72.842	62.817	71.049	70.194	71.654
26-30	72.521	75.376	70.661	70.974	71.957
31-35	70.672	71.249	70.795	71.000	70.770
36-40	71.385	71.209	15.157	16.273	13.962
41-45	17.571	13.723	15.787	13.873	16.746
46-50	14.003	16.308	13.273	13.152	13.625
51-52	13.734	13.505			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3550	29.3350	29.3390	49.077	.200	.200
59-61				47.399	16.084	.200

READING #125 AT 15:36:55 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.368	74.332	74.526	73.758
6-10	71.701	72.089	72.868	74.020	62.423
11-15	81.221	79.823	82.293	77.023	75.579
16-20	77.439	78.152	72.778	76.752	73.744
21-25	72.842	62.817	70.957	70.147	71.700
26-30	72.475	75.284	70.614	71.159	71.864
31-35	70.764	71.157	70.795	70.954	70.631
36-40	71.385	71.209	15.203	17.727	13.992
41-45	17.296	13.769	15.603	13.873	16.241
46-50	14.003	16.630	13.227	13.152	13.625
51-52	13.734	13.459			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3540	29.3320	29.3360	48.911	.200	.200
59-61				47.313	15.976	.200

READING #126 AT 15:51:56 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.415	74.379	74.573	73.824
6-10	71.747	72.089	72.822	74.000	80.331
11-15	81.313	79.823	82.572	77.023	75.579
16-20	77.436	78.152	72.824	76.752	73.790
21-25	72.888	62.817	71.003	70.147	71.702
26-30	72.475	75.237	70.661	71.067	71.771
31-35	70.718	71.110	70.841	70.954	70.580
36-40	71.385	71.209	15.148	17.672	13.937
41-45	16.966	13.826	15.777	13.864	16.048
46-50	14.085	16.666	13.264	13.143	13.661
51-52	13.725	13.501			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3520	29.3290	29.3340	48.992	.000	.000
59-61				47.160	16.196	.000

READING #127 AT 16: 6:57 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.368	74.332	74.480	73.711
6-10	71.701	72.089	72.776	74.000	80.331
11-15	81.261	79.777	82.475	77.162	75.533
16-20	77.439	78.245	72.778	76.798	73.744
21-25	72.842	62.817	71.003	70.147	71.700
26-30	72.475	75.006	70.568	70.928	71.725
31-35	70.718	71.018	70.748	70.861	70.539
36-40	71.385	71.162	15.194	17.534	13.937
41-45	17.058	13.806	16.048	13.818	16.048
46-50	14.085	16.529	13.264	13.143	13.707
51-52	13.771	13.546			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3520	29.3290	29.3320	48.731	.000	.000
59-61				47.070	16.169	.000

READING #128 AT 16:21:58 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.663	74.322	74.240	74.526	73.665
6-10	71.654	71.997	72.729	73.954	80.331
11-15	81.174	79.684	81.968	76.976	75.487
16-20	77.393	78.105	72.731	76.659	73.697
21-25	72.842	62.679	70.911	70.054	71.608
26-30	72.429	75.145	70.475	70.835	71.725
31-35	70.625	70.925	70.656	70.815	70.539
36-40	71.246	71.070	15.194	16.846	13.845
41-45	17.471	13.760	16.508	13.772	16.002
46-50	13.994	16.299	13.218	13.097	13.707
51-52	13.725	13.455			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3500	29.3270	29.3310	48.551	.000	.000
59-61				46.931	16.196	.000

READING #129 AT 16:36:59 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.663	74.322	74.332	74.462	73.711
6-10	71.701	72.043	72.776	73.954	80.284
11-15	81.035	79.777	82.479	76.976	75.579
16-20	77.393	78.152	72.778	76.706	73.697
21-25	72.842	62.771	70.911	70.054	71.561
26-30	72.429	75.284	70.661	71.113	71.725
31-35	70.532	70.925	70.702	70.815	70.452
36-40	71.246	71.070	13.102	16.662	13.896
41-45	17.608	13.811	16.650	13.823	15.961
46-50	14.044	16.212	13.264	13.143	13.712
51-52	13.776	13.546			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3470	29.3230	29.3260	48.632	.000	.000
59-61				46.859	16.156	.000

READING #130 AT 16:52:0 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.756	74.368	74.379	74.526	73.758
6-10	71.793	72.136	72.868	74.000	80.284
11-15	80.688	79.869	82.665	77.115	75.579
16-20	77.439	78.152	72.870	76.752	73.790
21-25	72.842	62.864	71.049	70.194	71.747
26-30	72.521	75.330	70.614	70.928	71.725
31-35	70.672	71.018	70.795	70.907	70.631
36-40	71.339	71.162	13.359	16.690	13.965
41-45	17.361	13.838	16.903	13.937	15.989
46-50	14.158	16.148	13.337	13.216	13.785
51-52	13.799	13.620			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3490	29.3240	29.3290	48.362	.000	.000
59-61				46.733	16.223	.000

READING #131 AT 17: 7: 1 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.368	74.332	74.480	73.665
6-10	71.701	72.043	72.822	74.000	80.377
11-15	80.942	79.823	82.479	77.023	75.533
16-20	77.393	78.152	72.778	76.752	73.697
21-25	72.842	62.817	71.003	70.147	71.608
26-30	72.429	75.052	70.614	70.974	71.679
31-35	70.625	70.971	70.748	70.907	70.539
36-40	71.339	71.116	15.405	16.465	14.015
41-45	17.131	13.884	16.632	13.850	16.310
46-50	14.117	16.056	13.337	13.125	13.739
51-52	13.711	13.620			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3450	29.3220	29.3260	48.119	.000	.000
59-61				46.616	16.367	.000

READING #132 AT 17:22: 2 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.461	74.425	74.615	73.804
6-10	71.840	72.228	72.961	74.139	80.238
11-15	81.406	79.916	82.247	77.162	75.672
16-20	77.578	78.291	72.963	76.891	73.883
21-25	72.934	62.956	71.142	70.240	71.793
26-30	72.614	75.330	70.707	71.067	71.957
31-35	70.764	71.064	70.841	70.954	70.678
36-40	71.431	71.255	15.497	16.414	14.148
41-45	17.131	14.017	16.489	14.029	16.715
46-50	14.250	16.285	13.475	13.308	13.831
51-52	13.936	13.757			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3480	29.3230	29.3290	48.277	.000	.000
59-61				46.585	16.295	.000

READING #133 AT 17:37: 3 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.461	74.472	74.619	73.758
6-10	71.793	72.136	72.868	74.293	80.238
11-15	81.453	79.916	82.247	77.162	75.579
16-20	77.486	78.291	72.870	76.845	73.837
21-25	72.688	62.910	71.203	70.194	71.700
26-30	72.521	75.237	70.614	71.205	71.725
31-35	70.625	70.971	70.748	70.861	70.539
36-40	71.339	71.116	15.442	16.272	14.189
41-45	17.076	13.966	16.393	13.978	16.484
46-50	14.200	16.460	13.420	13.207	13.776
51-52	13.886	13.748			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3460	29.3230	29.3280	48.173	.000	.000
59-61				46.481	16.336	.000

READING #134 AT 17:52: 4 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.415	74.379	74.665	73.804
6-10	71.840	72.182	72.915	74.093	80.377
11-15	81.235	79.916	82.432	77.223	75.626
16-20	77.486	78.105	72.916	76.798	73.790
21-25	72.934	62.864	71.003	70.194	71.793
26-30	72.614	75.145	70.661	71.159	71.818
31-35	70.672	70.971	70.795	70.861	70.539
36-40	71.385	71.162	15.589	16.414	14.148
41-45	17.085	14.017	16.305	13.983	16.351
46-50	14.250	16.648	13.475	13.262	13.831
51-52	13.936	13.711			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3450	29.3220	29.3270	48.060	.000	.000
59-61				46.373	16.295	.000

READING #135 AT 18: 7: 5 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.415	74.425	74.573	73.758
6-10	71.747	72.136	72.868	74.046	80.377
11-15	81.221	79.869	82.233	76.930	75.626
16-20	77.486	78.245	72.870	76.798	73.790
21-25	72.888	62.817	70.957	70.101	71.700
26-30	72.521	75.191	70.614	70.928	71.493
31-35	70.672	70.971	70.702	70.615	70.492
36-40	71.292	71.070	15.469	16.525	14.075
41-45	17.196	13.989	16.278	13.955	16.278
46-50	14.223	16.529	13.448	13.280	13.845
51-52	13.954	13.634			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3440	29.3230	29.3280	47.934	.000	.000
59-61				46.274	16.322	.000

READING #136 AT 18:22: 5 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.368	74.425	74.573	73.711
6-10	71.747	72.089	72.822	74.046	80.377
11-15	80.895	79.869	82.432	76.976	75.626
16-20	77.486	78.245	72.870	76.845	73.790
21-25	72.934	62.910	70.957	70.101	71.628
26-30	72.521	75.191	70.568	70.833	71.586
31-35	70.625	70.971	70.702	70.815	70.585
36-40	71.292	71.070	15.662	17.176	14.288
41-45	17.251	13.957	16.475	13.969	16.292
46-50	14.232	16.359	13.457	13.290	13.813
51-52	13.922	13.693			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3410	29.3190	29.3240	47.881	.000	.000
59-61				46.202	16.295	.000

READING #137 AT 18:37: 6 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.415	74.379	74.573	73.804
6-10	71.793	72.136	72.822	74.046	80.377
11-15	80.988	79.916	82.386	77.115	75.579
16-20	77.439	78.152	72.824	76.798	73.790
21-25	72.888	62.817	70.957	70.101	71.700
26-30	72.521	75.145	70.568	70.928	71.771
31-35	70.579	70.925	70.609	70.815	70.446
36-40	71.246	71.070	15.469	17.213	14.125
41-45	17.150	13.994	16.374	14.006	16.282
46-50	14.268	16.350	13.448	13.280	13.850
51-52	13.913	13.684			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3400	29.3190	29.3230	47.858	.000	.000
59-61				46.076	16.345	.000

READING #138 AT 18:52: 7 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.663	74.368	74.332	74.526	73.711
6-10	71.747	72.089	72.822	74.000	80.284
11-15	81.128	79.777	82.523	76.376	75.672
16-20	77.393	78.198	72.870	76.798	73.792
21-25	72.888	62.771	70.911	70.101	71.608
26-30	72.475	75.145	70.522	70.974	71.566
31-35	70.532	70.833	70.609	70.815	72.400
36-40	71.246	71.023	15.469	16.575	14.263
41-45	17.287	13.994	16.237	13.960	16.191
46-50	14.227	16.487	13.448	13.239	13.824
51-52	13.821	13.638			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3420	29.3190	29.3240	47.916	.000	.000
59-61				45.986	16.398	.000

READING #139 AT 19: 7: 8 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.415	74.425	74.573	73.758
6-10	71.793	72.136	72.868	74.093	80.145
11-15	80.942	79.916	82.386	77.162	75.719
16-20	77.486	78.245	72.916	76.845	73.883
21-25	72.980	62.956	71.003	70.194	71.747
26-30	72.568	75.376	70.568	71.205	71.957
31-35	70.579	70.971	70.656	70.861	70.539
36-40	71.292	71.116	13.626	16.497	14.460
41-45	17.718	14.104	16.393	14.065	15.704
46-50	14.287	16.868	13.558	13.345	13.914
51-52	13.840	13.748			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3430	29.3200	29.3240	47.475	.000	.000
59-61				45.928	16.381	.000

READING #140 AT 19:22: 8 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.663	74.368	74.379	74.526	73.752
6-10	71.701	72.136	72.822	74.000	80.238
11-15	81.221	79.823	82.590	76.883	75.626
16-20	77.346	78.245	72.870	76.752	73.744
21-25	72.888	62.817	70.957	70.101	71.654
26-30	72.521	75.145	70.522	70.835	71.818
31-35	70.486	70.925	70.609	70.768	70.492
36-40	71.246	71.023	15.414	16.199	14.391
41-45	17.599	14.031	16.549	14.042	17.065
46-50	14.264	17.300	13.438	13.271	13.734
51-52	13.812	13.675			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3420	29.3190	29.3230	47.448	.000	.000
59-61				45.815	16.421	.000

READING #141 AT 19:37: 9 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.663	74.368	74.332	74.526	73.665
6-10	71.701	72.089	72.822	74.046	80.423
11-15	81.035	79.823	82.432	77.023	75.579
16-20	77.439	78.105	72.824	76.798	73.790
21-25	72.888	62.864	70.911	70.054	71.654
26-30	72.521	75.330	70.522	70.928	71.864
31-35	70.579	70.833	70.609	70.768	70.446
36-40	71.200	71.023	15.993	16.589	14.322
41-45	17.214	14.058	16.756	14.065	17.306
46-50	14.287	16.685	13.512	13.299	13.822
51-52	14.018	13.748			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3430	29.3190	29.3240	47.426	.000	.000
59-61				45.765	16.416	.000

READING #142 AT 19:52:11 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.663	74.322	74.379	74.526	73.711
6-10	71.747	72.043	72.776	74.000	80.284
11-15	81.035	79.823	82.711	77.069	75.487
16-20	77.393	78.105	72.824	76.798	73.744
21-25	72.888	62.817	70.864	70.008	71.608
26-30	72.521	75.237	70.475	70.742	71.493
31-35	70.486	70.833	70.517	70.722	70.400
36-40	71.200	71.023	16.108	17.213	14.258
41-45	16.920	14.035	16.324	14.047	16.553
46-50	14.268	16.437	13.493	13.280	13.799
51-52	13.954	13.679			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3430	29.3200	29.3250	47.224	.000	.000
59-61				45.657	16.349	.000

READING #143 AT 20: 7:11 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.617	74.322	74.332	74.526	73.711
6-10	71.701	72.043	72.776	74.000	80.377
11-15	81.081	79.823	82.711	77.069	75.626
16-20	77.439	78.152	72.824	76.798	73.744
21-25	72.842	62.864	70.911	70.054	71.608
26-30	72.521	75.237	70.475	70.742	71.586
31-35	70.532	70.879	70.563	70.768	70.353
36-40	71.200	71.023	15.800	17.130	14.359
41-45	17.113	14.095	16.154	14.102	16.383
46-50	14.278	16.497	13.503	13.336	13.905
51-52	14.060	13.785			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3410	29.3170	29.3200	47.269	.000	.000
59-61				45.541	16.421	.000

READING #144 AT 20:22:13 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.415	74.379	74.665	73.758
6-10	71.747	72.136	72.868	74.093	80.377
11-15	81.091	73.823	82.432	77.115	75.626
16-20	77.480	78.152	72.870	76.891	73.790
21-25	73.934	62.864	70.957	70.147	71.608
26-30	72.568	75.284	70.568	70.881	71.818
31-35	70.025	70.971	70.609	70.815	70.492
36-40	71.200	71.023	15.883	17.075	14.350
41-45	17.425	14.081	16.324	14.093	16.416
46-50	14.314	16.391	13.448	13.326	13.937
51-52	14.092	13.817			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3420	29.3170	29.3210	47.165	.000	.000
59-61				45.491	16.403	.002

READING #145 AT 20:37:14 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.415	74.379	74.619	73.758
6-10	71.747	72.136	72.868	74.046	80.377
11-15	81.235	79.916	82.525	77.023	75.672
16-20	77.439	78.291	72.916	76.845	73.837
21-25	72.934	62.864	70.957	70.101	71.654
26-30	72.560	75.284	70.614	70.881	71.679
31-35	70.623	70.879	70.656	70.815	70.539
36-40	71.046	71.070	15.745	16.938	14.487
41-45	17.379	14.127	16.278	14.184	16.783
46-50	14.400	16.391	13.446	13.326	13.937
51-52	14.138	13.909			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3440	29.3180	29.3220	47.070	.000	.000
59-61				45.392	16.349	.002

READING #146 AT 20:52:15 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.663	74.368	74.379	74.619	73.711
6-10	71.701	72.089	72.822	74.046	80.238
11-15	80.988	79.916	82.757	76.837	75.533
16-20	77.393	78.198	72.824	76.891	73.790
21-25	72.888	62.864	70.911	70.054	71.654
26-30	72.521	75.376	70.522	70.742	71.540
31-35	70.532	70.786	70.563	70.768	70.492
36-40	71.200	71.023	15.662	16.763	14.451
41-45	17.251	14.049	16.429	14.102	16.884
46-50	14.369	16.534	13.457	13.336	13.859
51-52	14.106	13.831			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3400	29.3150	29.3190	47.043	.000	.000
59-61				45.306	16.444	.000

READING #147 AT 21: 7:15 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.415	74.425	74.619	73.758
6-10	71.793	72.182	72.915	74.093	80.284
11-15	81.081	79.869	82.432	76.976	75.672
16-20	77.439	78.245	72.916	76.845	73.883
21-25	72.934	62.910	70.957	70.147	71.747
26-30	72.614	75.469	70.568	71.159	71.540
31-35	70.625	70.925	70.656	70.815	70.539
36-40	71.246	71.070	15.690	17.571	14.386
41-45	18.058	14.164	16.774	14.175	17.141
46-50	14.443	16.565	13.530	13.409	13.927
51-52	14.174	13.945			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3400	29.3150	29.3210	46.836	.000	.000
59-61				45.216	16.421	.000

READING #148 AT 21:22:16 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.507	74.472	74.665	73.804
6-10	71.886	72.182	72.915	74.139	80.423
11-15	81.313	79.962	82.711	77.162	75.719
16-20	77.532	78.384	72.963	76.938	73.883
21-25	73.027	62.956	71.003	70.147	71.793
26-30	72.660	75.330	70.614	71.020	71.632
31-35	70.672	70.971	70.609	70.861	70.539
36-40	71.339	71.116	15.690	17.617	14.432
41-45	18.058	14.255	16.682	14.267	17.462
46-50	14.488	16.749	13.622	13.501	13.973
51-52	14.266	13.991			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3400	29.3160	29.3210	46.836	.000	.000
59-61				45.122	16.412	.000

READING #149 AT 21:37:17 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.415	74.425	74.665	73.850
6-10	71.793	72.182	72.868	74.139	80.377
11-15	80.988	79.962	83.175	77.208	75.626
16-20	77.486	78.245	72.963	76.938	73.929
21-25	72.934	63.003	70.957	70.147	71.793
26-30	72.614	75.145	70.568	71.020	71.540
31-35	70.672	70.879	70.656	70.861	70.492
36-40	71.246	71.070	15.754	17.038	14.634
41-45	17.842	14.182	16.287	14.285	16.838
46-50	14.507	16.951	13.590	13.468	13.992
51-52	14.238	14.055			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3410	29.3150	29.3200	46.643	.000	.000
59-61				45.068	15.746	.000

READING #150 AT 21:52:18 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.756	74.368	74.379	74.573	73.711
6-10	71.793	72.182	72.915	74.046	80.284
11-15	81.221	79.962	82.479	77.069	75.579
16-20	77.439	78.245	72.916	76.845	73.837
21-25	72.934	62.910	70.957	70.101	71.747
26-30	72.660	75.145	70.568	71.020	71.725
31-35	70.625	70.925	70.702	70.768	70.585
36-40	71.292	71.070	15.681	17.194	14.652
41-45	17.361	14.200	16.305	14.212	16.627
46-50	14.433	17.061	13.521	13.400	13.969
51-52	14.211	14.028			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3390	29.3140	29.3190	46.616	.000	.000
59-61				44.982	14.616	.000

READING #151 AT 22: 7:19 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.461	74.472	74.619	73.804
6-10	71.640	72.228	72.915	74.133	80.238
11-15	80.988	79.916	82.850	77.208	75.672
16-20	77.486	78.291	72.963	76.984	73.883
21-25	72.980	62.956	71.003	70.101	71.747
26-30	72.660	75.376	70.522	70.974	71.725
31-35	70.579	70.925	70.609	70.261	70.492
36-40	71.246	71.116	15.736	17.158	14.707
41-45	17.370	14.209	16.728	14.221	16.498
46-50	14.488	16.933	13.622	13.501	14.019
51-52	14.220	14.037			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3380	29.3130	29.3180	46.710	.000	.000
59-61				44.938	14.949	.000

READING #152 AT 22:22:20 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.415	74.425	74.665	73.758
6-10	71.792	72.136	72.868	74.046	80.331
11-15	80.895	79.916	82.061	77.208	75.626
16-20	77.486	78.198	72.870	76.891	73.837
21-25	72.980	62.910	70.911	70.054	71.747
26-30	72.568	75.469	70.475	70.974	71.540
31-35	70.579	70.879	70.563	70.768	70.539
36-40	71.200	71.023	15.626	16.681	14.689
41-45	17.902	14.191	16.939	14.294	16.572
46-50	14.470	16.685	13.649	13.482	14.005
51-52	14.293	14.069			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3350	29.3130	29.3180	46.477	.000	.000
59-61				44.847	15.755	.000

READING #153 AT 22:37:22 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.756	74.461	74.425	74.619	73.758
6-10	71.840	72.228	72.915	74.139	80.377
11-15	81.174	79.916	82.616	77.162	75.672
16-20	77.532	78.337	73.009	76.938	73.929
21-25	72.980	63.003	71.003	70.101	71.747
26-30	72.660	75.469	70.568	71.159	71.632
31-35	70.625	70.879	70.609	70.768	70.539
36-40	71.246	71.070	15.800	16.534	14.726
41-45	17.934	14.228	17.160	14.331	16.471
46-50	14.553	16.584	13.727	13.468	14.083
51-52	14.330	14.101			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3400	29.3160	29.3200	46.314	.000	.000
59-61				44.785	16.363	.000

READING #154 AT 22:52:23 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.802	74.461	74.425	74.665	73.850
6-10	71.886	72.228	72.961	74.139	80.377
11-15	81.267	79.962	82.293	77.208	75.811
16-20	77.532	78.291	73.009	76.891	73.929
21-25	72.980	62.956	71.003	70.101	71.793
26-30	72.660	75.284	70.568	70.881	71.725
31-35	70.625	70.925	70.656	70.861	70.539
36-40	71.292	71.116	15.828	16.515	14.845
41-45	17.599	14.255	17.325	14.358	16.406
46-50	14.626	16.428	13.801	13.501	14.065
51-52	14.312	14.175			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3370	29.3140	29.3190	46.420	.000	.000
59-61				44.695	16.507	.000

READING #155 AT 23: 7:25 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.461	74.332	74.665	73.758
6-10	71.840	72.182	72.915	74.139	80.331
11-15	80.988	79.962	82.804	77.208	75.765
16-20	77.532	78.337	72.963	76.891	73.883
21-25	72.980	62.956	70.911	70.054	71.747
26-30	72.614	75.515	70.522	70.928	71.818
31-35	70.625	70.879	70.563	70.815	70.446
36-40	71.246	71.070	15.855	16.451	14.872
41-45	17.443	14.237	16.893	14.340	16.664
46-50	14.562	16.414	13.787	13.528	14.051
51-52	14.293	14.156			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3350	29.3110	29.3160	46.404	.000	.000
59-61				44.641	16.583	.000

READING #156 AT 23:22:25 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.415	74.375	74.665	73.758
6-10	71.840	72.182	72.915	74.139	80.331
11-15	81.267	79.916	82.572	77.223	75.719
16-20	77.486	78.337	72.916	76.845	73.383
21-25	72.934	63.003	70.911	70.054	71.700
26-30	72.660	75.469	70.475	70.974	71.679
31-35	70.579	70.879	70.517	70.815	70.492
36-40	71.246	71.116	15.855	16.314	14.918
41-45	17.260	14.283	16.664	14.386	16.939
46-50	14.608	16.460	13.787	13.528	14.097
51-52	14.339	14.156			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3350	29.3110	29.3150	46.184	.000	.000
59-61				44.550	16.534	.000

READING #157 AT 23:37:26 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.415	74.379	74.665	73.758
6-10	71.040	72.136	72.868	74.093	80.331
11-15	81.081	79.962	82.665	77.254	75.672
16-20	77.486	78.245	72.916	76.938	73.883
21-25	72.934	62.956	70.864	70.254	71.747
26-30	72.614	75.469	70.522	70.881	71.566
31-35	70.579	70.833	70.517	70.766	70.446
36-40	71.246	71.070	15.846	16.213	14.863
41-45	17.159	14.274	16.655	14.377	16.700
46-50	14.553	16.676	13.773	13.468	14.083
51-52	14.284	14.101			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3330	29.3090	29.3130	46.283	.000	.000
59-61				44.474	16.655	.000

READING #158 AT 23:52:27 11/25/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.756	74.415	74.425	74.619	73.824
6-10	71.793	72.182	72.915	74.093	80.331
11-15	81.174	79.962	82.386	77.162	75.626
16-20	77.532	78.291	72.916	76.891	73.837
21-25	72.934	62.956	70.911	70.101	71.793
26-30	72.614	75.423	70.475	70.835	71.493
31-35	70.579	70.879	70.563	70.815	70.492
36-40	71.246	71.070	15.892	16.350	14.909
41-45	17.205	14.278	16.567	14.377	16.567
46-50	14.598	16.813	13.824	13.519	14.088
51-52	14.330	14.197			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3340	29.3100	29.3150	46.130	.000	.000
59-61				44.397	16.588	.000

READING #159 AT 0: 7:28 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.848	74.554	74.518	74.804	73.897
6-10	71.932	72.228	73.037	74.232	80.284
11-15	81.174	80.009	82.618	77.301	75.811
16-20	77.578	78.337	73.055	77.030	73.976
21-25	73.027	63.003	72.957	70.147	71.747
26-30	72.707	75.562	70.568	71.067	71.771
31-35	70.672	70.925	70.656	70.861	70.492
36-40	71.292	71.116	15.919	16.607	14.799
41-45	17.370	14.347	16.682	14.450	16.590
46-50	14.718	16.841	13.938	13.638	14.157
51-52	14.358	14.266			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3350	29.3110	29.3160	45.932	.000	.000
59-61				44.352	16.596	.000

READING #160 AT 0:22:29 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.415	74.425	74.619	73.804
6-10	71.886	72.182	72.915	74.139	80.423
11-15	81.281	79.962	82.897	77.115	75.672
16-20	77.486	78.291	72.963	76.891	73.883
21-25	72.980	63.003	70.911	70.054	71.793
26-30	72.614	75.330	70.522	70.881	71.540
31-35	70.532	70.833	70.609	70.722	70.400
36-40	71.246	71.023	15.984	17.038	14.680
41-45	17.342	14.320	16.655	14.422	16.521
46-50	14.690	16.542	13.669	13.565	14.088
51-52	14.330	14.243			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3350	29.3090	29.3130	45.896	.000	.000
59-61				44.276	16.619	.000

READING #161 AT 0:37:30 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.415	74.379	74.619	73.758
6-10	71.793	72.136	72.822	74.046	80.238
11-15	80.849	79.916	82.525	77.069	75.672
16-20	77.486	78.337	72.916	76.938	73.883
21-25	72.934	62.956	70.864	70.101	71.747
26-30	72.614	75.284	70.429	70.974	71.586
31-35	70.532	70.879	70.517	70.768	70.446
36-40	71.246	71.070	15.947	17.185	14.735
41-45	17.306	14.329	16.572	14.386	16.439
46-50	14.653	16.552	13.879	13.528	14.097
51-52	14.339	14.248			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3330	29.3080	29.3130	45.838	.000	.000
59-61				44.213	16.484	.000

READING #162 AT 0:52:32 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.368	74.379	74.619	73.758
6-10	71.840	72.182	72.868	74.046	80.284
11-15	81.313	79.869	82.479	77.208	75.672
16-20	77.439	78.198	72.916	76.938	73.837
21-25	72.888	62.956	70.911	70.008	71.654
26-30	72.614	75.191	70.475	70.928	71.864
31-35	70.532	70.879	70.563	70.788	70.539
36-40	71.292	71.070	15.956	16.644	14.881
41-45	17.452	14.338	16.397	14.395	16.443
46-50	14.617	16.694	13.796	13.583	14.056
51-52	14.348	14.211			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3330	29.3090	29.3140	45.824	.000	.000
59-61				44.114	16.615	.000

READING #163 AT 1:7:33 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.756	74.461	74.425	74.665	73.758
6-10	71.840	72.182	72.866	74.093	80.377
11-15	81.221	80.009	82.340	77.069	75.670
16-20	77.486	78.291	72.963	76.938	73.929
21-25	72.888	62.910	70.864	70.254	71.793
26-30	72.614	75.237	70.475	70.861	71.725
31-35	70.579	70.879	70.563	70.815	70.446
36-40	71.246	71.023	16.030	16.492	15.001
41-45	17.709	14.416	16.567	14.427	15.833
46-50	14.649	17.002	13.669	13.611	14.134
51-52	14.289	14.289			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3310	29.3080	29.3110	45.757	.000	.000
59-61				44.234	16.610	.000

READING #164 AT 1:22:34 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.368	74.425	74.619	73.804
6-10	71.886	72.182	72.915	74.093	80.238
11-15	81.035	79.916	82.757	77.208	75.626
16-20	77.439	76.198	72.963	76.938	73.883
21-25	72.934	62.910	70.911	70.054	71.839
26-30	72.660	75.330	70.475	70.974	71.447
31-35	70.579	72.879	70.563	70.815	70.400
36-40	71.246	71.070	15.828	16.291	14.941
41-45	17.737	14.397	16.733	14.409	17.375
46-50	14.631	17.442	13.897	13.592	14.110
51-52	14.316	14.271			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3310	29.3060	29.3110	45.666	.000	.000
59-61				43.983	16.714	.000

READING #165 AT 1:37:35 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.663	74.415	74.379	74.665	73.758
6-10	71.793	72.182	72.868	74.139	80.284
11-15	81.035	79.869	82.665	77.162	75.763
16-20	77.439	78.132	72.916	76.938	73.883
21-25	72.888	62.864	70.864	70.008	71.747
26-30	72.660	75.284	70.475	71.067	71.493
31-35	70.532	70.879	70.563	70.815	70.446
36-40	71.246	71.023	15.919	16.382	14.845
41-45	17.370	14.352	16.870	14.404	17.508
46-50	14.672	16.845	13.805	13.592	14.116
51-52	14.408	14.225			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3310	29.3070	29.3100	45.747	.000	.000
59-61				43.902	16.583	.000

READING #166 AT 1:52:36 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.756	74.415	74.425	74.712	73.804
6-10	71.640	72.228	72.915	74.093	80.284
11-15	80.849	79.962	82.711	77.393	75.672
16-20	77.532	78.291	72.963	76.984	73.883
21-25	72.980	63.003	70.957	70.054	71.747
26-30	72.660	75.330	70.568	70.928	71.725
31-35	70.672	70.925	70.563	70.815	70.446
36-40	71.292	71.116	16.140	16.511	14.927
41-45	17.223	14.388	16.723	14.491	16.907
46-50	14.708	16.699	13.888	13.675	14.126
51-52	14.490	14.307			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3310	29.3060	29.3100	45.698	.000	.000
59-61				43.844	16.606	.000

READING #167 AT 2: 7:37 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.368	74.425	74.619	73.804
6-10	71.840	72.228	72.915	74.093	80.238
11-15	81.174	79.916	82.525	77.347	75.672
16-20	77.486	78.337	73.009	76.938	73.929
21-25	72.980	62.956	70.911	70.101	71.793
26-30	72.660	75.284	70.475	70.881	71.771
31-35	70.532	70.925	70.517	70.861	70.539
36-40	71.246	71.116	16.149	16.199	14.941
41-45	17.324	14.397	16.503	14.454	16.595
46-50	14.722	16.754	13.851	13.638	14.116
51-52	14.454	14.271			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3300	29.3060	29.3110	45.680	.000	.000
59-61				43.772	16.799	.000

READING #168 AT 2:22:38 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.415	74.425	74.712	73.804
6-10	71.840	72.228	72.915	74.093	80.284
11-15	81.360	80.055	82.293	77.347	75.719
16-20	77.532	73.384	72.963	76.984	73.976
21-25	73.027	63.003	70.957	70.147	71.793
26-30	72.707	75.234	70.568	70.881	71.632
31-35	70.625	70.879	70.517	70.815	70.539
36-40	71.246	71.116	16.066	16.662	15.037
41-45	17.425	14.448	16.512	14.505	16.512
46-50	14.773	16.579	13.814	13.647	14.125
51-52	14.504	14.372			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3320	29.3090	29.3140	45.626	.000	.000
59-61				43.704	16.619	.000

READING #169 AT 2:37:41 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.415	74.425	74.665	73.804
6-10	71.866	72.182	72.961	74.139	80.377
11-15	81.128	80.055	82.572	77.228	75.719
16-20	77.486	78.337	72.963	76.984	73.883
21-25	72.930	63.003	71.203	70.101	71.793
26-30	72.707	75.330	70.522	70.928	71.864
31-35	70.625	70.879	70.563	70.815	70.492
36-40	71.292	71.116	16.094	17.242	15.065
41-45	17.406	14.480	16.402	14.532	16.861
46-50	14.754	16.469	13.842	13.721	14.106
51-52	14.490	14.353			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3310	29.3070	29.3110	45.289	.000	.000
59-61				43.655	16.664	.000

READING #170 AT 2:52:42 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.415	74.379	74.712	73.804
6-10	71.886	72.228	72.915	74.139	80.238
11-15	81.081	80.009	82.711	77.301	75.719
16-20	77.486	78.337	72.963	76.938	73.929
21-25	72.980	62.910	70.911	70.054	71.747
26-30	72.660	75.423	70.522	70.835	71.679
31-35	70.532	70.786	70.517	70.768	70.400
36-40	71.200	71.070	16.122	17.497	15.136
41-45	17.296	14.462	16.521	14.473	16.934
46-50	14.741	16.634	13.824	13.702	14.088
51-52	14.518	14.335			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3310	29.3050	29.3100	45.239	.000	.000
59-61				43.574	16.650	.000

READING #171 AT 3: 7:43 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.415	74.379	74.712	73.711
6-10	71.793	72.136	72.868	74.093	80.284
11-15	80.803	79.916	82.293	77.208	75.579
16-20	77.439	78.291	72.916	76.891	73.837
21-25	72.934	62.910	70.911	70.054	71.700
26-30	72.660	75.376	70.522	71.067	71.447
31-35	70.579	70.879	70.563	70.815	70.539
36-40	71.292	71.116	16.002	18.020	15.202
41-45	18.003	14.460	16.815	14.445	17.270
46-50	14.754	16.653	13.888	13.721	14.136
51-52	14.536	14.353			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3330	29.3070	29.3110	45.415	.000	.000
59-61				43.498	16.556	.000

READING #172 AT 3:22:44 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.415	74.425	74.665	73.804
6-10	71.886	72.228	72.915	74.093	80.423
11-15	81.035	80.009	82.525	77.301	75.719
16-20	77.486	78.337	73.009	76.891	73.929
21-25	72.580	62.956	70.957	70.101	71.793
26-30	72.753	75.376	70.522	71.067	71.679
31-35	70.625	70.879	70.563	70.815	70.492
36-40	71.246	71.116	15.965	17.754	15.170
41-45	18.654	14.535	16.641	14.546	17.421
46-50	14.814	16.800	13.943	13.730	14.070
51-52	14.500	14.362			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3320	29.3060	29.3110	45.334	.000	.000
59-61				43.434	16.669	.000

READING #173 AT 3:37:45 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.663	74.368	74.379	74.619	73.711
6-10	71.840	72.136	72.822	74.046	80.284
11-15	81.081	79.962	82.293	77.115	75.626
16-20	77.439	78.291	72.916	76.891	73.883
21-25	72.842	62.910	70.864	70.008	71.747
26-30	72.660	75.237	70.522	71.067	71.632
31-35	70.579	70.833	70.517	70.768	70.539
36-40	71.246	71.023	15.910	17.149	15.202
41-45	17.682	14.434	16.356	14.491	16.861
46-50	14.754	16.974	13.934	13.675	14.060
51-52	14.490	14.307			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3310	29.3040	29.3080	45.261	.000	.000
59-61				43.385	16.804	.000

READING #174 AT 3:52:47 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.554	74.518	74.804	73.897
6-10	71.979	72.321	72.961	74.185	80.470
11-15	80.895	80.102	82.386	77.440	75.951
16-20	77.625	78.291	73.055	76.984	73.976
21-25	72.980	63.003	70.957	70.101	71.839
26-30	72.846	75.469	70.522	71.067	71.632
31-35	70.672	70.925	70.656	70.861	70.585
36-40	71.339	71.116	16.076	17.406	15.276
41-45	17.388	14.599	16.567	14.610	16.751
46-50	14.924	17.185	14.053	13.794	14.226
51-52	14.610	14.427			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3300	29.3050	29.3090	45.239	.000	.000
59-61				43.317	16.750	.000

READING #175 AT 4: 7:48 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.554	74.472	74.804	73.897
6-10	72.025	72.321	73.007	74.185	80.516
11-15	81.128	80.102	82.525	77.208	75.997
16-20	77.578	78.337	73.055	77.077	74.022
21-25	72.934	63.049	70.957	70.147	71.886
26-30	72.846	75.469	70.614	71.159	71.679
31-35	70.672	70.971	70.609	70.861	70.492
36-40	71.292	71.116	16.076	17.222	15.276
41-45	17.480	14.645	16.705	14.610	16.659
46-50	14.924	17.002	14.099	13.840	14.271
51-52	14.610	14.473			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3320	29.3050	29.3110	45.104	.000	.000
59-61				43.268	16.678	.000

READING #176 AT 4:22:50 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.554	74.518	74.851	73.850
6-10	72.025	72.321	73.007	74.139	80.516
11-15	81.081	80.102	82.386	77.347	75.951
16-20	77.578	78.291	73.055	76.938	73.976
21-25	72.934	62.910	70.911	70.054	71.793
26-30	72.799	75.423	70.568	70.974	71.493
31-35	70.579	70.925	70.563	70.815	70.492
36-40	71.246	71.070	16.030	16.860	15.280
41-45	17.984	14.599	17.118	14.610	16.705
46-50	14.924	16.818	14.099	13.845	14.226
51-52	14.610	14.427			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3270	29.3020	29.3070	45.054	.000	.000
59-61				43.223	16.714	.000

READING #177 AT 4:37:51 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.554	74.472	74.804	73.897
6-10	72.025	72.367	72.961	74.185	80.331
11-15	81.035	80.055	82.757	77.347	76.090
16-20	77.578	78.337	73.102	76.984	73.976
21-25	72.980	63.003	70.864	70.101	71.839
26-30	72.846	75.515	70.568	71.159	71.586
31-35	70.625	70.925	70.563	70.815	70.492
36-40	71.200	71.023	16.076	16.722	15.276
41-45	16.330	14.645	17.302	14.656	16.567
46-50	14.965	16.680	14.099	13.840	14.226
51-52	14.610	14.473			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3290	29.3020	29.3070	45.010	.000	.000
59-61				43.155	16.826	.000

READING #178 AT 4:52:53 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.554	74.472	74.804	73.897
6-10	71.579	72.367	73.054	74.139	80.377
11-15	81.281	80.009	82.850	77.347	76.090
16-20	77.578	78.384	73.055	77.030	73.976
21-25	72.980	63.003	70.911	70.054	71.793
26-30	72.846	75.469	70.614	71.159	71.632
31-35	70.625	70.925	70.563	70.815	70.539
36-40	71.153	71.070	16.066	16.621	15.231
41-45	17.654	14.590	17.431	14.647	16.466
46-50	14.915	16.533	14.044	13.831	14.171
51-52	14.555	14.463			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3250	29.3010	29.3050	45.010	.000	.000
59-61				43.102	16.754	.000

READING #179 AT 5: 7:54 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.600	74.472	74.804	73.897
6-10	72.025	72.367	73.054	74.139	80.423
11-15	81.313	80.102	82.757	77.208	76.043
16-20	77.625	78.384	73.102	77.030	74.069
21-25	72.980	63.095	70.864	70.101	71.839
26-30	72.892	75.469	70.614	71.113	71.586
31-35	70.672	71.018	70.563	70.815	70.492
36-40	71.246	71.116	16.213	16.534	15.322
41-45	17.526	14.686	17.114	14.697	16.838
46-50	14.965	16.542	14.099	13.886	14.271
51-52	14.651	14.514			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3300	29.3060	29.3100	44.919	.000	.000
59-61				43.075	16.754	.000

READING #180 AT 5:22:55 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.554	74.472	74.712	73.850
6-10	71.979	72.414	72.915	73.937	80.331
11-15	81.035	80.009	82.665	77.254	75.997
16-20	77.625	78.384	72.824	76.891	73.976
21-25	72.980	62.864	70.957	70.147	71.839
26-30	72.892	75.145	70.661	70.835	71.493
31-35	70.672	70.971	70.563	70.815	70.446
36-40	71.246	71.023	16.177	16.410	15.285
41-45	17.306	14.654	16.806	14.706	17.035
46-50	14.928	16.598	14.108	13.895	14.235
51-52	14.665	14.528			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3290	29.3050	29.3100	45.045	.000	.000
59-61				43.088	16.781	.000

READING #181 AT 5:37:56 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.507	74.510	74.804	73.837
6-10	71.932	72.367	72.915	73.861	80.423
11-15	80.395	82.102	82.757	77.254	75.904
16-20	77.625	76.337	72.778	76.845	73.976
21-25	72.934	62.956	70.911	70.194	71.793
26-30	72.892	75.264	70.661	71.067	71.771
31-35	70.718	70.925	70.563	70.815	70.400
36-40	71.246	71.070	16.085	16.310	15.265
41-45	17.306	14.654	16.852	14.726	16.852
46-50	14.974	16.827	14.062	13.895	14.281
51-52	14.665	14.573			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3280	29.3040	29.3090	44.888	.000	.000
59-61				43.037	16.781	.000

READING #182 AT 5:52:58 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.461	74.472	74.758	73.850
6-10	71.932	72.321	72.915	73.769	80.238
11-15	80.940	82.194	82.824	77.162	76.043
16-20	77.625	78.198	72.731	76.752	73.976
21-25	72.888	63.023	70.911	70.194	71.839
26-30	72.846	75.191	70.614	71.067	71.771
31-35	70.672	72.879	72.517	70.768	70.446
36-40	71.246	71.023	16.085	16.456	15.265
41-45	17.260	14.700	16.622	14.706	16.714
46-50	14.974	16.519	14.062	13.895	14.281
51-52	14.665	14.523			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3290	29.3260	29.3110	44.811	.000	.000
59-61				42.962	16.869	.000

READING #183 AT 6: 8: 0 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.415	74.425	74.712	73.604
6-10	71.532	72.228	72.910	73.810	80.423
11-15	80.895	80.055	82.824	77.162	73.904
16-20	77.532	78.196	72.824	76.938	73.929
21-25	72.888	63.049	70.911	70.101	71.720
26-30	72.846	75.191	70.707	71.067	71.453
31-35	70.625	70.525	70.563	70.768	70.492
36-40	71.292	71.116	16.002	16.603	15.294
41-45	17.361	14.663	16.632	14.715	16.531
46-50	14.983	16.882	14.025	13.904	14.244
51-52	14.628	14.491			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3290	29.3050	29.3080	44.681	.000	.000
59-61				42.906	16.862	.000

READING #184 AT 6:23: 1 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.736	74.600	74.518	74.857	73.943
6-10	72.072	72.367	73.054	74.093	80.331
11-15	81.128	80.102	82.897	77.023	76.043
16-20	77.671	78.291	73.055	77.030	73.976
21-25	72.980	63.095	70.911	70.147	71.793
26-30	72.985	75.423	70.614	71.205	71.910
31-35	70.625	70.971	70.609	70.861	70.492
36-40	71.339	71.116	16.145	17.112	15.323
41-45	17.461	14.714	16.800	14.705	16.636
46-50	15.038	16.749	14.122	13.653	14.254
51-52	14.678	14.541			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3290	29.3040	29.3090	44.630	.000	.000
59-61				42.890	16.635	.000

READING #185 AT 6:38: 2 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.354	74.472	74.804	73.850
6-10	71.932	72.228	73.007	74.046	80.264
11-15	81.221	80.055	82.850	77.115	76.043
16-20	77.578	78.291	72.963	76.891	73.929
21-25	72.888	63.090	70.864	70.054	71.747
26-30	72.938	75.284	70.566	71.159	71.566
31-35	70.625	70.971	70.563	70.768	70.492
36-40	71.346	71.070	16.094	17.332	15.294
41-45	17.315	14.709	16.540	14.715	16.530
46-50	14.983	16.653	14.071	13.904	14.290
51-52	14.628	14.537			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3260	29.3020	29.3060	44.645	.000	.000
59-61				42.867	16.554	.000

READING #186 AT 6:53: 4 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.553	74.537	74.423	74.504	73.334
6-10	71.532	72.228	71.955	74.346	69.321
11-15	69.988	62.239	63.616	77.288	75.324
16-20	77.532	76.136	72.553	76.938	73.325
21-25	76.642	63.249	70.772	70.008	71.747
26-30	72.252	75.254	72.429	70.928	71.431
31-35	72.522	72.971	70.517	70.676	72.353
36-40	71.153	72.977	16.131	16.635	15.321
41-45	17.523	14.855	16.460	14.661	16.433
46-50	14.374	16.731	14.103	13.895	14.223
51-52	14.614	14.477			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3202	29.3242	29.3270	44.537	.228	.320
59-61				42.627	16.732	.222

READING #187 AT 7: 8: 5 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.553	74.415	74.379	74.619	73.624
6-10	71.542	72.162	72.622	73.615	69.338
11-15	61.134	60.853	63.530	77.269	75.984
16-20	77.136	77.627	72.516	76.256	73.653
21-25	72.155	63.823	72.772	65.962	71.634
26-30	72.646	75.375	72.362	70.635	71.642
31-35	72.532	72.679	72.424	72.676	72.333
36-40	72.127	70.951	15.893	16.455	15.282
41-45	17.672	14.732	16.558	14.661	15.658
46-50	14.974	17.627	14.816	13.849	14.252
51-52	14.461	14.526			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3252	29.3226	29.3260	44.616	.222	.233
59-61				42.754	16.665	.212

READING #188 AT 7:23: 6 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.736	74.600	74.504	74.651	73.697
6-10	71.979	72.321	73.034	74.046	69.423
11-15	60.942	60.122	62.950	77.228	76.892
16-20	77.622	70.245	73.162	76.612	74.212
21-25	72.562	63.141	72.937	72.147	71.633
26-30	72.663	72.513	72.614	71.067	71.771
31-35	72.672	71.064	72.563	70.661	70.339
36-40	71.246	71.270	16.149	16.337	15.246
41-45	17.909	14.852	16.870	14.816	17.652
46-50	15.964	17.622	14.218	13.959	14.437
51-52	14.678	14.633			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3262	29.3230	29.3270	44.636	.222	.220
59-61				42.701	16.656	.222

READING #189 AT 7:38: 7 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.554	74.516	74.851	73.897
6-10	71.979	73.228	73.254	74.293	80.316
11-15	81.360	80.148	82.990	77.208	76.243
16-20	77.625	78.245	73.055	76.845	74.222
21-25	72.034	63.141	70.864	70.101	71.639
26-30	73.983	75.237	70.568	71.113	71.542
31-35	70.579	71.018	70.609	70.815	70.446
36-40	71.246	71.070	16.085	16.777	15.377
41-45	17.489	14.838	17.062	14.798	17.026
46-50	15.158	16.965	14.200	14.033	14.372
51-52	14.756	14.619			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3250	29.2990	29.3050	44.460	.000	.000
59-61				42.052	-5.862	.000

READING #190 AT 7:53: 9 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.729	74.554	74.472	74.851	73.830
6-10	71.080	73.228	73.961	74.293	81.377
11-15	80.038	80.148	82.830	77.200	75.951
16-20	77.578	78.198	72.963	76.750	73.976
21-25	72.036	63.249	70.824	70.254	71.793
26-30	72.985	75.469	72.522	71.113	71.586
31-35	70.579	70.971	70.563	70.768	70.446
36-40	71.200	72.977	16.259	17.360	15.022
41-45	17.205	14.829	16.735	14.748	16.934
46-50	15.057	16.726	14.140	14.023	14.271
51-52	14.747	14.656			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3270	29.3020	29.3270	44.514	.000	.000
59-61				42.615	17.226	.000

READING #191 AT 8: 8:10 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.602	74.611	74.897	74.036
6-10	71.979	73.367	73.100	74.183	80.423
11-15	80.942	80.255	82.757	77.347	76.136
16-20	77.625	78.337	73.146	76.891	74.115
21-25	72.980	63.141	70.957	72.147	71.839
26-30	73.231	75.515	70.614	71.113	71.421
31-35	70.718	71.264	70.609	70.815	70.339
36-40	71.292	71.116	16.379	17.204	15.487
41-45	17.416	14.852	16.457	14.862	16.732
46-50	15.130	16.937	14.218	14.051	14.345
51-52	14.816	14.679			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3270	29.3020	29.3070	44.483	.000	.000
59-61				42.575	16.876	.000

READING #192 AT 8:23:12 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.736	74.600	74.564	74.831	73.943
6-10	71.979	72.367	73.254	74.183	80.516
11-15	81.035	80.194	82.804	77.347	76.136
16-20	77.625	78.291	73.148	76.984	74.069
21-25	73.027	63.095	70.911	70.147	71.686
26-30	73.031	75.469	70.522	71.391	71.493
31-35	70.672	71.018	70.563	70.815	70.446
36-40	71.246	71.023	16.388	17.213	15.452
41-45	17.562	14.861	16.466	14.871	16.656
46-50	15.185	16.717	14.227	14.060	14.354
51-52	14.779	14.643			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3260	29.3210	29.3060	44.289	.000	.000
59-61				42.521	16.876	.000

READING #193 AT 8:38:13 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.263	74.507	74.472	74.804	73.897
6-10	71.606	72.220	73.007	74.139	62.331
11-15	81.128	80.122	82.943	77.254	75.997
16-20	77.278	76.152	73.035	76.938	73.929
21-25	72.934	63.095	70.772	70.054	71.747
26-30	72.938	75.284	70.475	70.861	71.421
31-35	70.579	70.925	70.563	70.722	70.400
36-40	71.200	70.977	16.397	17.064	15.413
41-45	17.526	14.778	16.521	14.789	16.576
46-50	15.103	16.634	14.190	13.976	14.271
51-52	14.743	14.560			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3242	29.2990	29.3040	44.208	.000	.000
59-61				42.503	16.849	.000

READING #194 AT 8:53:14 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.756	74.600	74.518	74.897	73.943
6-10	72.025	72.367	73.254	74.232	80.423
11-15	80.803	80.148	82.757	77.347	76.136
16-20	77.671	78.337	73.148	76.938	74.069
21-25	72.980	63.141	70.911	70.101	71.839
26-30	73.031	75.423	70.522	70.974	71.679
31-35	70.625	71.018	70.563	70.815	70.446
36-40	71.292	71.070	16.351	17.176	15.537
41-45	17.847	14.916	16.838	14.835	17.159
46-50	15.194	16.859	14.323	14.115	14.359
51-52	14.788	14.651			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3260	29.3000	29.3250	44.240	.000	.000
59-61				42.426	16.637	.000

READING #195 AT 9: 8:15 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.600	74.564	74.897	73.692
6-10	71.979	72.367	73.100	74.232	62.470
11-15	81.128	80.241	82.850	77.347	70.136
16-20	77.671	78.337	73.194	77.030	74.115
21-25	73.027	63.188	70.911	70.147	71.938
26-30	73.077	75.562	70.568	71.020	71.493
31-35	70.672	71.064	70.656	70.861	70.536
36-40	71.339	71.116	16.360	17.690	15.789
41-45	18.268	14.925	16.939	14.889	17.444
46-50	15.249	16.823	14.241	14.170	14.322
51-52	14.843	14.752			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3250	29.3030	29.3060	44.195	.000	.000
59-61				42.366	15.535	.000

READING #196 AT 9:23:16 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.554	74.516	74.897	73.943
6-10	71.932	72.321	73.054	74.185	62.063
11-15	81.035	80.148	82.804	77.321	76.290
16-20	77.671	78.337	73.102	76.936	74.269
21-25	72.980	63.095	72.864	72.101	71.839
26-30	73.077	75.423	72.568	71.067	71.493
31-35	70.625	71.018	70.563	72.768	72.492
36-40	71.246	71.023	16.360	17.598	15.743
41-45	18.681	14.929	16.714	14.889	17.536
46-50	15.203	16.965	14.251	14.124	14.327
51-52	14.798	14.711			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3250	29.2990	29.3050	44.298	.000	.000
59-61				42.328	14.734	.000

READING #197 AT 9:38:17 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.554	74.516	74.897	73.943
6-10	71.932	72.321	73.054	74.139	62.423
11-15	81.081	80.148	82.618	77.208	76.043
16-20	77.578	78.245	73.102	76.891	74.022
21-25	72.934	63.095	70.616	72.054	71.839
26-30	73.031	75.376	70.614	71.020	71.679
31-35	70.625	71.064	70.609	70.815	70.492
36-40	71.246	71.070	16.278	17.194	15.615
41-45	17.773	14.888	16.540	14.853	16.999
46-50	15.167	17.245	14.255	14.133	14.290
51-52	14.761	14.674			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3230	29.2990	29.3230	44.273	.000	.000
59-61				42.278	15.616	.000

READING #198 AT 9:53:19 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.600	74.518	74.631	73.697
6-10	71.386	72.275	73.054	74.139	60.331
11-15	61.128	60.102	63.222	77.254	76.043
16-20	77.576	76.152	73.102	76.796	74.022
21-25	72.888	63.095	70.818	70.006	71.795
26-30	73.231	75.423	70.522	71.020	71.771
31-35	70.579	71.018	70.517	70.768	70.446
36-40	71.200	71.023	16.223	17.323	15.562
41-45	17.397	14.929	16.531	14.844	16.714
46-50	15.203	17.194	14.245	14.078	14.327
51-52	14.796	14.655			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3240	29.3010	29.3050	44.114	.000	.200
59-61				42.256	16.502	.272

READING #199 AT 10: 8:21 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.729	74.600	74.518	74.944	73.950
6-10	71.932	72.321	73.100	74.165	60.331
11-15	60.968	60.055	62.943	77.208	76.092
16-20	77.025	76.198	73.102	76.645	74.069
21-25	72.960	63.095	70.864	70.101	71.886
26-30	73.077	75.330	70.566	71.020	71.540
31-35	70.625	71.018	70.517	70.768	70.446
36-40	71.200	71.023	16.287	17.020	15.532
41-45	17.416	14.897	16.687	14.862	16.686
46-50	15.268	17.029	14.218	14.143	14.289
51-52	14.816	14.679			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3210	29.2970	29.3020	44.078	.000	.000
59-61				42.206	16.947	.000

READING #200 AT 10:23:22 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.620	74.564	74.897	73.943
6-10	71.932	72.275	73.054	74.165	60.423
11-15	60.942	60.102	63.222	77.115	76.092
16-20	77.625	76.198	73.102	76.752	74.022
21-25	72.960	63.141	70.911	70.147	71.839
26-30	73.031	75.562	70.614	71.298	71.493
31-35	70.625	71.110	70.563	70.815	70.493
36-40	71.292	71.070	16.369	16.736	15.569
41-45	18.046	14.934	17.224	14.899	16.769
46-50	15.258	16.882	14.300	14.179	14.382
51-52	14.653	14.720			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3210	29.2960	29.3030	43.943	.000	.000
59-61				42.188	16.979	.000

READING #201 AT 10:38:24 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.802	74.646	74.637	74.530	74.036
6-10	71.979	72.414	73.147	74.232	82.470
11-15	81.406	80.194	82.943	77.347	76.182
16-20	77.718	78.221	73.194	76.536	74.069
21-25	73.027	63.188	70.957	70.147	71.978
26-30	73.124	75.469	70.568	71.252	71.342
31-35	70.672	71.064	70.609	70.861	70.492
36-40	71.292	71.162	16.282	16.653	15.624
41-45	16.099	14.989	17.463	14.999	16.602
46-50	15.313	16.841	14.397	14.230	14.386
51-52	14.906	14.616			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3240	29.2990	29.3030	44.020	.200	.000
59-61				42.116	16.979	.000

READING #202 AT 10:55: 0 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.729	74.600	74.564	74.851	73.990
6-10	71.932	72.367	73.054	74.185	82.470
11-15	81.128	80.102	82.711	77.254	76.090
16-20	77.625	78.245	73.102	76.691	74.069
21-25	72.680	63.141	70.864	72.147	71.839
26-30	73.077	75.376	70.614	71.159	71.586
31-35	70.625	71.064	70.563	70.815	70.442
36-40	71.246	71.023	16.342	16.616	15.542
41-45	17.654	14.998	17.518	14.963	16.604
46-50	15.277	16.625	14.360	14.196	14.354
51-52	14.871	14.134			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3230	29.2990	29.3040	44.132	.200	.020
59-61				42.066	17.028	.000

READING #203 AT 11:10: 2 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.554	74.564	74.851	73.990
6-10	71.866	72.275	73.054	74.139	82.423
11-15	80.942	80.146	82.665	77.301	76.182
16-20	77.576	78.152	73.102	76.845	74.069
21-25	72.934	63.095	70.864	70.254	71.932
26-30	73.077	75.423	70.522	71.205	71.586
31-35	70.625	71.064	70.517	70.815	70.492
36-40	71.200	71.070	16.480	16.479	15.542
41-45	17.471	14.952	17.059	14.963	16.675
46-50	15.277	16.625	14.360	14.198	14.400
51-52	14.871	14.780			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3240	29.2990	29.3020	43.340	.200	.000
59-61				42.044	17.123	.000

READING #204 AT 11:25: 4 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.600	74.564	74.857	73.930
6-10	71.932	72.321	73.054	74.139	80.423
11-15	81.128	80.102	82.757	77.393	76.130
16-20	77.578	78.152	73.102	76.798	74.022
21-25	72.980	63.141	70.818	70.101	71.886
26-30	73.077	75.284	70.568	70.974	71.493
31-35	70.579	71.018	70.563	70.815	70.440
36-40	71.246	71.023	16.305	16.350	15.551
41-45	17.342	15.007	16.884	14.972	17.113
46-50	15.286	16.634	14.323	14.207	14.404
51-52	14.880	14.835			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3200	29.2950	29.2990	43.952	.000	.000
59-61				41.977	17.177	.000

READING #205 AT 11:40:36 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.756	74.600	74.564	74.944	73.930
6-10	71.538	72.367	73.100	74.183	80.470
11-15	80.942	80.102	82.757	77.254	76.043
16-20	77.578	78.152	73.102	76.752	74.069
21-25	73.027	63.188	70.864	70.101	71.932
26-30	73.124	75.423	70.614	71.113	71.493
31-35	70.625	71.018	70.563	70.768	70.430
36-40	71.200	71.023	16.287	16.337	15.532
41-45	17.324	14.989	16.870	14.999	16.672
46-50	15.268	16.937	14.310	14.234	14.351
51-52	14.862	14.862			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3200	29.2960	29.3000	43.785	.000	.000
59-61				41.972	17.317	.000

READING #206 AT 11:55:37 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.554	74.472	74.897	73.897
6-10	71.886	72.275	73.054	74.139	80.470
11-15	81.128	80.055	82.665	77.206	75.997
16-20	77.578	77.920	73.053	76.706	74.022
21-25	72.888	63.141	70.864	70.054	71.839
26-30	73.031	75.423	70.522	71.113	71.447
31-35	70.579	71.018	70.517	70.722	70.353
36-40	71.153	70.977	16.278	16.465	15.569
41-45	17.361	14.985	16.586	14.949	16.677
46-50	15.309	17.020	14.300	14.179	14.382
51-52	14.903	14.812			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3170	29.2940	29.2980	43.727	.000	.000
59-61				41.882	17.092	.000

READING #207 AT 12:10:38 11/26/87

POINTS:

	TEMPERATURE (FAHRENHEIT)				
1- 5	69.756	74.554	74.564	74.932	73.990
6-10	71.932	72.414	73.100	74.185	80.331
11-15	80.988	80.194	82.804	77.301	76.182
16-20	77.625	78.152	73.102	76.891	74.269
21-25	72.980	63.234	70.911	70.194	71.680
26-30	73.124	75.469	70.614	71.113	71.493
31-35	70.672	71.110	70.563	70.768	70.492
36-40	71.200	71.023	16.443	16.855	15.688
41-45	17.526	15.099	16.792	15.063	16.746
46-50	15.378	16.997	14.369	14.299	14.496
51-52	14.972	14.881			

	PRESSURE (PSIA)			DEW POINT TEMPERATURE		
53-55, 56-58	29.3200	29.2966	29.3000	43.911	.000	.000
59-61				41.877	17.042	.000

READING #208 AT 12:25:40 11/26/87

POINTS:

	TEMPERATURE (FAHRENHEIT)				
1- 5	69.756	74.507	74.518	74.944	73.943
6-10	71.940	72.321	73.054	74.139	80.284
11-15	80.895	80.102	82.386	77.162	76.043
16-20	77.578	78.059	73.055	76.845	74.269
21-25	72.634	63.188	70.911	70.147	71.839
26-30	73.077	75.330	70.568	71.113	71.586
31-35	70.672	71.064	72.517	70.768	70.446
36-40	71.292	71.070	16.369	17.286	15.661
41-45	17.452	15.072	16.769	14.990	16.631
46-50	15.350	16.790	14.346	14.317	14.427
51-52	14.898	14.812			

	PRESSURE (PSIA)			DEW POINT TEMPERATURE		
53-55, 56-58	29.3190	29.2920	29.2980	43.763	.000	.000
59-61				41.837	16.986	.000

READING #209 AT 12:40:42 11/26/87

POINTS:

	TEMPERATURE (FAHRENHEIT)				
1- 5	69.709	74.554	74.564	74.944	73.943
6-10	71.932	72.367	73.054	74.139	80.423
11-15	80.942	80.148	82.665	77.254	76.043
16-20	77.532	78.059	73.102	76.752	74.069
21-25	72.980	63.141	70.810	70.101	71.839
26-30	73.031	75.284	70.568	70.928	71.586
31-35	70.625	71.064	70.517	70.722	70.492
36-40	71.200	71.023	16.333	17.066	15.670
41-45	17.416	15.081	16.595	15.045	16.641
46-50	15.313	16.754	14.356	14.280	14.391
51-52	14.953	14.816			

	PRESSURE (PSIA)			DEW POINT TEMPERATURE		
53-55, 56-58	29.3160	29.2910	29.2970	43.659	.000	.000
59-61				41.752	17.128	.000

READING #210 AT 12:55:43 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.507	74.564	74.944	73.992
6-10	71.886	72.367	73.054	74.165	80.423
11-15	81.035	80.102	82.665	77.321	76.043
16-20	77.625	78.105	73.148	76.891	74.269
21-25	72.980	63.188	70.864	70.101	71.066
26-30	73.077	75.376	70.568	71.020	71.401
31-35	70.579	71.064	70.563	70.768	70.492
36-40	71.200	71.023	16.434	16.759	15.675
41-45	17.654	15.140	16.650	15.054	16.237
46-50	15.368	16.947	14.365	14.289	14.446
51-52	14.675	14.784			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3130	29.2890	29.2940	43.538	.000	.000
59-61				41.733	17.141	.000

READING #211 AT 13: 5:41 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.507	74.518	74.944	73.990
6-10	71.932	72.367	73.100	74.139	80.470
11-15	81.174	80.102	82.757	77.254	75.997
16-20	77.578	78.013	73.055	76.843	74.022
21-25	72.934	63.188	70.818	70.101	71.839
26-30	73.077	75.330	70.614	70.986	71.586
31-35	70.625	71.018	70.517	70.722	70.446
36-40	71.200	71.023	16.360	16.630	15.606
41-45	17.810	15.154	16.756	15.027	16.071
46-50	15.341	17.282	14.378	14.257	14.525
51-52	14.843	14.793			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3140	29.2890	29.2940	43.624	.000	.000
59-61				41.711	17.105	.000

READING #212 AT 13:15:42 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.554	74.518	74.944	73.990
6-10	71.932	72.367	73.100	74.139	80.470
11-15	80.895	80.148	82.665	77.347	76.043
16-20	77.625	78.013	73.148	76.845	74.269
21-25	72.934	63.141	70.864	70.147	71.839
26-30	73.124	75.423	70.614	71.067	71.493
31-35	70.625	71.064	70.517	70.722	70.492
36-40	71.200	70.977	16.342	16.479	15.542
41-45	17.975	15.136	16.967	15.054	16.604
46-50	15.368	17.355	14.360	14.289	14.487
51-52	14.825	14.780			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3150	29.2910	29.2940	43.479	.000	.000
59-61				41.693	17.155	.000

READING #213 AT 13:25:43 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.663	74.507	74.518	74.897	73.943
6-10	71.886	72.321	73.100	74.139	82.563
11-15	81.221	80.194	82.293	77.301	76.043
16-20	77.578	77.920	73.102	76.891	74.069
21-25	72.934	63.188	70.864	70.054	71.886
26-30	73.124	75.330	70.614	71.020	71.447
31-35	70.579	71.110	70.470	70.722	70.446
36-40	71.107	70.977	16.305	16.304	15.551
41-45	17.847	15.145	16.976	15.063	17.048
46-50	15.378	17.594	14.415	14.299	14.495
51-52	14.926	14.789			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3110	29.2870	29.2920	43.650	.000	.000
59-61				41.675	17.256	.000

READING #214 AT 13:35:43 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.554	74.564	74.944	73.990
6-10	71.886	72.367	73.100	74.139	82.470
11-15	81.313	80.148	82.757	77.301	76.136
16-20	77.578	78.013	73.102	76.845	74.022
21-25	72.934	63.234	70.911	70.101	71.932
26-30	73.077	75.284	70.661	71.067	71.679
31-35	70.625	71.064	70.470	70.722	70.446
36-40	71.153	70.977	16.314	16.543	15.560
41-45	17.581	15.108	17.077	15.073	17.720
46-50	15.433	17.190	14.424	14.303	14.505
51-52	14.981	14.844			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3140	29.2880	29.2930	43.578	.000	.000
59-61				41.644	17.004	.000

READING #215 AT 13:45:43 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.554	74.611	74.990	74.036
6-10	71.932	72.414	73.147	74.185	80.470
11-15	80.895	80.194	82.850	77.301	76.290
16-20	77.625	78.152	73.148	76.938	74.269
21-25	73.027	63.188	70.957	70.147	71.886
26-30	73.124	75.330	70.661	71.113	71.586
31-35	70.672	71.157	70.517	70.768	70.446
36-40	71.246	71.070	16.383	17.488	15.633
41-45	17.333	15.182	17.105	15.100	17.518
46-50	15.414	16.942	14.406	14.422	14.487
51-52	15.008	14.917			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3130	29.2900	29.2940	43.610	.000	.000
59-61				41.616	17.083	.000

READING #216 AT 13:55:44 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.663	74.461	74.518	74.897	73.943
6-10	71.886	72.367	73.054	74.139	80.470
11-15	80.942	80.055	82.757	77.254	76.243
16-20	77.578	77.966	73.102	76.891	74.269
21-25	72.980	63.188	70.864	70.147	71.839
26-30	73.077	75.237	70.614	71.067	71.447
31-35	70.579	71.064	70.517	70.768	70.400
36-40	71.153	70.977	16.484	17.635	15.592
41-45	17.159	15.145	16.700	15.063	16.838
46-50	15.423	16.859	14.369	14.340	14.450
51-52	14.972	14.835			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3130	29.2870	29.2930	43.534	.000	.000
59-61				41.585	17.110	.000

READING #217 AT 14: 5:44 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.554	74.611	74.990	74.036
6-10	71.932	72.414	73.100	74.139	80.423
11-15	81.174	80.148	82.897	77.301	76.090
16-20	77.625	78.152	73.102	76.984	74.115
21-25	72.980	63.188	70.911	70.147	71.932
26-30	73.124	75.515	70.568	71.067	71.725
31-35	70.625	71.064	70.563	70.815	70.492
36-40	71.246	71.070	16.567	17.488	15.679
41-45	17.333	15.182	16.462	15.100	16.783
46-50	15.414	16.988	14.452	14.377	14.487
51-52	15.008	14.917			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3120	29.2880	29.2920	43.372	.000	.000
59-61				41.549	17.249	.000

READING #218 AT 14:15:45 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.554	74.564	74.944	73.990
6-10	71.886	72.414	73.100	74.185	80.377
11-15	80.988	80.194	82.990	77.301	75.997
16-20	77.532	77.966	73.148	76.798	74.069
21-25	72.980	63.188	70.911	70.147	71.886
26-30	73.170	75.376	70.568	71.113	71.354
31-35	70.625	71.064	70.517	70.768	70.446
36-40	71.153	71.023	16.654	17.295	15.670
41-45	17.553	15.173	16.365	15.091	16.641
46-50	15.405	16.983	14.447	14.280	14.482
51-52	14.953	14.862			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3100	29.2860	29.2910	43.457	.000	.000
59-61				41.544	17.119	.000

READING #219 AT 14:25:45 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.461	74.564	74.944	73.390
6-10	71.886	72.367	73.100	74.185	80.423
11-15	81.128	80.148	82.618	77.301	76.043
16-20	77.578	78.013	73.102	76.845	74.069
21-25	72.934	63.188	70.864	70.101	71.886
26-30	73.077	75.376	70.614	71.113	71.308
31-35	70.625	71.064	70.563	70.722	70.446
36-40	71.200	71.023	16.617	17.350	15.679
41-45	17.746	15.162	16.604	15.054	16.783
46-50	15.460	16.855	14.406	14.244	14.446
51-52	14.963	14.826			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3100	29.2840	29.2890	43.524	.000	.000
59-61				41.509	17.137	.000

READING #220 AT 14:35:47 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.709	74.507	74.611	74.990	73.990
6-10	71.886	72.414	73.100	74.185	80.423
11-15	80.895	80.194	82.711	77.301	76.043
16-20	77.532	78.013	73.102	76.891	74.069
21-25	72.980	63.234	70.911	70.147	71.839
26-30	73.124	75.423	70.661	71.159	71.493
31-35	70.672	71.110	70.517	70.722	70.446
36-40	71.246	71.023	16.585	17.277	15.698
41-45	17.672	15.200	16.572	15.118	17.123
46-50	15.478	16.777	14.470	14.349	14.505
51-52	15.073	14.890			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3120	29.2870	29.2900	43.376	.000	.000
59-61				41.499	17.276	.000

READING #221 AT 14:45:48 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.756	74.461	74.518	74.897	73.990
6-10	71.932	72.414	73.100	74.139	80.377
11-15	81.081	80.009	82.665	77.254	75.997
16-20	77.532	77.920	73.102	76.938	74.022
21-25	72.934	63.234	70.864	70.101	71.839
26-30	73.124	75.237	70.661	71.113	71.447
31-35	70.672	71.110	70.517	70.768	70.446
36-40	71.153	71.023	16.549	16.873	15.661
41-45	17.544	15.163	16.581	15.082	17.224
46-50	15.442	16.878	14.433	14.358	14.515
51-52	14.990	14.899			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3100	29.2840	29.2890	43.353	.000	.000
59-61				41.477	17.119	.000

READING #222 AT 14:55:49 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.663	74.461	74.564	74.944	73.990
6-10	71.886	72.414	73.254	74.139	82.516
11-15	81.174	80.148	82.525	77.301	76.043
16-20	77.532	78.059	73.146	76.891	74.022
21-25	72.980	63.234	70.864	70.101	71.686
26-30	73.124	75.284	70.614	71.020	71.632
31-35	70.625	71.064	70.517	70.768	70.400
36-40	71.153	70.977	16.760	17.222	15.775
41-45	17.617	15.191	16.884	15.063	17.205
46-50	15.469	16.951	14.461	14.340	14.496
51-52	14.972	14.861			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3110	29.2840	29.2890	43.423	.000	.000
39-61				41.459	17.267	.000

READING #223 AT 15: 5:49 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.709	74.507	74.611	74.990	73.990
6-10	71.866	72.414	73.100	74.185	82.423
11-15	81.221	80.148	82.943	77.301	75.997
16-20	77.578	78.059	73.194	76.938	74.069
21-25	72.980	63.234	70.864	70.147	71.932
26-30	73.124	75.330	70.614	71.113	71.910
31-35	70.625	71.110	70.563	70.815	70.492
36-40	71.200	71.023	16.861	17.782	15.973
41-45	18.085	15.246	17.031	15.164	17.490
46-50	15.524	17.026	14.470	14.441	14.643
51-52	15.073	14.961			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3090	29.2840	29.2880	43.300	.000	.000
59-61				41.428	17.105	.000

READING #224 AT 15:15:50 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1- 5	69.663	74.507	74.516	74.944	73.990
6-10	71.886	72.414	73.054	74.139	82.377
11-15	81.174	80.148	82.711	77.208	75.997
16-20	77.532	78.059	73.148	76.845	74.022
21-25	72.980	63.280	70.864	70.054	71.886
26-30	73.077	75.237	70.614	71.113	71.540
31-35	70.532	71.064	70.470	70.722	70.400
36-40	71.153	70.977	16.576	17.635	15.959
41-45	18.209	15.237	17.022	15.109	17.573
46-50	15.469	16.905	14.461	14.340	14.542
51-52	15.018	14.926			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3100	29.2830	29.2870	43.268	.000	.000
59-61				41.373	17.317	.000

READING #225 AT 15:25:51 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.663	74.554	74.564	74.944	73.990
6-10	71.932	72.414	73.100	74.139	80.423
11-15	81.128	80.148	82.850	77.321	76.243
16-20	77.532	78.259	73.148	76.938	74.269
21-25	73.027	63.234	70.864	70.101	71.666
26-30	73.124	75.330	70.568	71.159	71.447
31-35	70.625	71.064	70.470	70.722	70.420
36-40	71.200	70.977	16.797	17.534	15.858
41-45	18.612	15.228	16.691	15.146	17.472
46-50	15.460	17.080	14.498	14.331	14.533
51-52	15.254	14.963			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3090	29.3630	29.2880	43.313	.000	.000
59-61				41.347	17.231	.000

READING #226 AT 15:35:52 11/26/87

POINTS:

TEMPERATURE (FAHRENHEIT)

1-5	69.663	74.461	74.564	74.990	73.943
6-10	71.886	72.357	73.100	74.139	80.470
11-15	80.835	80.102	82.525	77.254	75.997
16-20	77.578	77.920	73.148	76.891	74.069
21-25	72.980	63.280	70.864	70.101	71.886
26-30	73.124	75.423	70.614	71.020	71.540
31-35	70.625	71.110	70.470	70.768	70.420
36-40	71.200	70.977	16.714	17.222	15.826
41-45	17.984	15.237	16.567	15.155	17.205
46-50	15.515	17.273	14.461	14.386	14.542
51-52	15.018	14.972			

PRESSURE (PSIA)

DEW POINT TEMPERATURE

53-55, 56-58	29.3070	29.2800	29.2830	43.268	.000	.000
59-61				41.337	17.145	.000

CALIBRATION DATA BY POINT

PAGE 1

LOWER CONTAINMENT

24 SENSOR POINTS 27.1% BLDG VOLUME

POINT	VOLUME	A	B(X)	C(X**2)
1	.05280	-.409058D+03	.422311D+01	.190389D-02
2	.05300	-.408314D+03	.421350D+01	.192493D-02
3	.05300	-.407040D+03	.419003D+01	.204037D-02
4	.05300	-.407558D+03	.419942D+01	.200248D-02
5	.05300	-.409019D+03	.422427D+01	.190305D-02
6	.03270	-.408579D+03	.421687D+01	.193426D-02
7	.03270	-.408879D+03	.422239D+01	.190070D-02
8	.03270	-.408807D+03	.422093D+01	.190730D-02
9	.03270	-.409379D+03	.422903D+01	.184368D-02
10	.05300	-.408908D+03	.422043D+01	.188918D-02
11	.05300	-.409153D+03	.422704D+01	.188427D-02
12	.05300	-.409461D+03	.423195D+01	.186090D-02
13	.05300	-.406396D+03	.417682D+01	.209818D-02
14	.05300	-.408613D+03	.421680D+01	.190795D-02
15	.05300	-.407859D+03	.420363D+01	.198799D-02
16	.05300	-.409112D+03	.422564D+01	.188415D-02
17	.05300	-.408256D+03	.420751D+01	.194883D-02
18	.01200	-.408878D+03	.421306D+01	.190069D-02
19	.01010	-.409141D+03	.422513D+01	.189583D-02
20	.01160	-.409729D+03	.423259D+01	.187360D-02
21	.01160	-.405614D+03	.415846D+01	.214685D-02
25	.05330	-.409847D+03	.421908D+01	.190947D-02
26	.00190	-.408690D+03	.421649D+01	.192061D-02
27	.03390	-.408915D+03	.422301D+01	.188212D-02

PRESSURE POINTS

53	1.00000	.000000D+00	.100000D+02	.000000D+00
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DEW POINT SENSORS

56	1.00000	-.850000D+02	.450000D+00	.000000D+00
57	.00000	.000000D+00	.000000D+00	.000000D+00

CALIBRATION DATA BY POINT

PAGE 2

UPPER CONTAINMENT

13 SENSOR POINTS 59.5% BLDG VOLUME

POINT	VOLUME	A	B(X)	C(X**2)
22	.02000	-.408890D+03	.422246D+01	.189205D-02
23	.05900	-.405264D+03	.415928D+01	.218137D-02
24	.04500	-.409437D+03	.422861D+01	.189526D-02
28	.03900	-.408885D+03	.422224D+01	.190330D-02
29	.05900	-.407755D+03	.420011D+01	.199057D-02
30	.05900	-.408692D+03	.421647D+01	.192812D-02
31	.05900	-.408505D+03	.421498D+01	.194284D-02
32	.11500	-.409125D+03	.422337D+01	.186883D-02
33	.11500	-.409247D+03	.422757D+01	.186871D-02
34	.11000	-.409236D+03	.422737D+01	.188705D-02
35	.11000	-.406924D+03	.418468D+01	.206855D-02
36	.09500	-.409008D+03	.422225D+01	.189251D-02
37	.09500	-.408150D+03	.420472D+01	.196228D-02

PRESSURE POINTS

54	1.00000	.000000D+00	.100000D+02	.000000D+00
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DEW POINT SENSORS

58	.00000	.000000D+00	.000000D+00	.000000D+00
59	1.00000	-.850000D+02	.450000D+00	.000000D+00

CALIBRATION DATA BY POINT

PAGE 3

ICE CONDENSER
15 SENSOR POINTS 13.4% BLDG VOLUME

POINT	VOLUME	A	B(X)	C(X**2)
38	.05720	-.409300D+03	.422775D+01	.188745D-02
39	.05720	-.409688D+03	.423205D+01	.184061D-02
40	.05720	-.409282D+03	.422706D+01	.185602D-02
41	.05720	-.408837D+03	.421669D+01	.190177D-02
42	.05720	-.408964D+03	.422231D+01	.189151D-02
43	.05720	-.409598D+03	.423226D+01	.186644D-02
44	.05720	-.407600D+03	.419505D+01	.199406D-02
45	.05720	-.408984D+03	.422114D+01	.191567D-02
46	.05720	-.408625D+03	.421489D+01	.191266D-02
47	.05720	-.408679D+03	.421767D+01	.193595D-02
48	.08560	-.408762D+03	.421613D+01	.192452D-02
49	.08560	-.409023D+03	.422414D+01	.188607D-02
50	.08560	-.408828D+03	.421957D+01	.190956D-02
51	.08560	-.408611D+03	.421473D+01	.191359D-02
52	.08560	-.408613D+03	.421630D+01	.191723D-02

PRESSURE POINTS

55	1.00000	.000000D+00	.100000D+02	.000000D+00
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DEW POINT SENSORS

60	1.00000	-.850000D+02	.450000D+00	.000000D+00
61	.00000	.000000D+00	.000000D+00	.000000D+00