

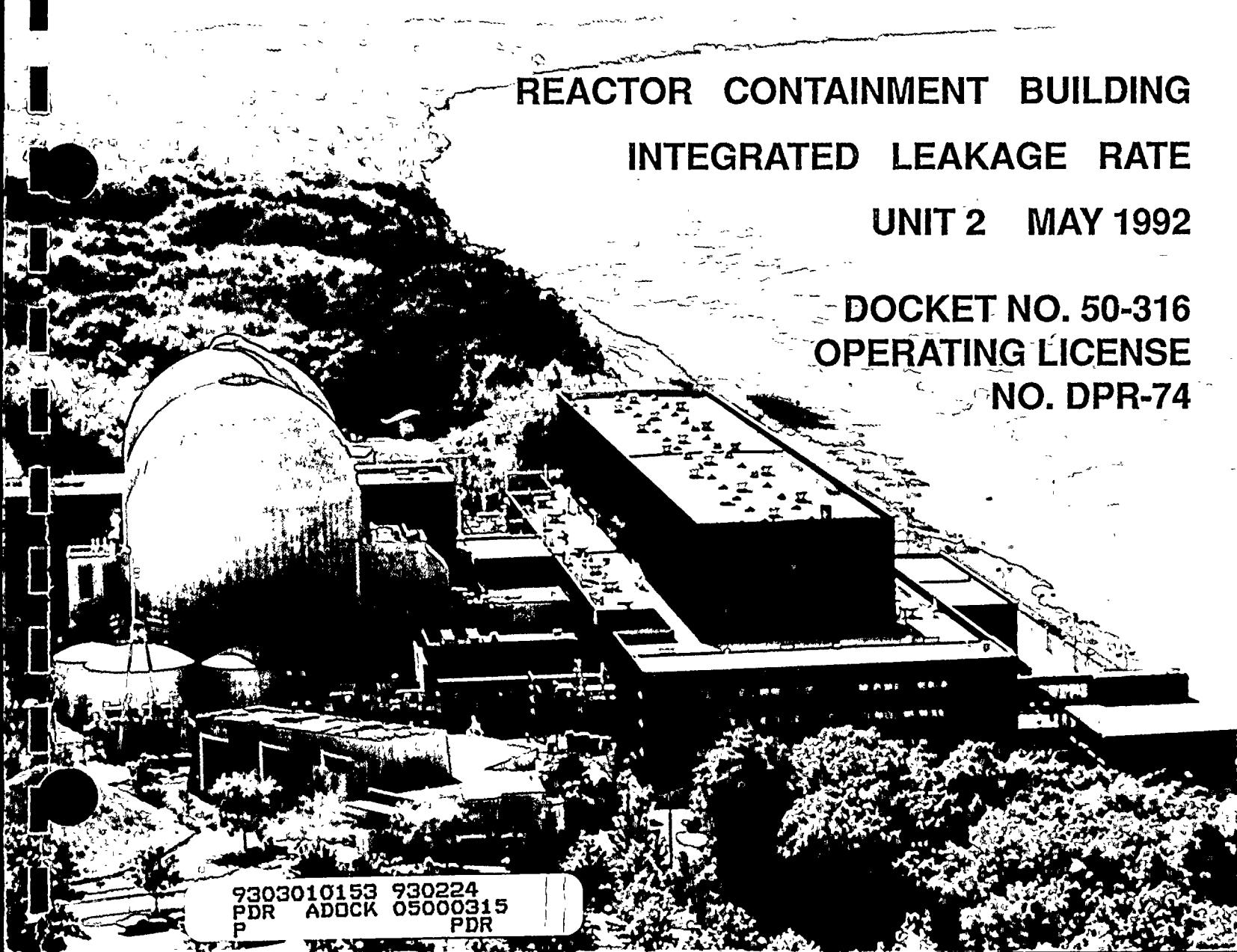
# **COOK NUCLEAR PLANT**

Bridgman, Michigan

## **REACTOR CONTAINMENT BUILDING INTEGRATED LEAKAGE RATE**

**UNIT 2 MAY 1992**

**DOCKET NO. 50-316  
OPERATING LICENSE  
NO. DPR-74**

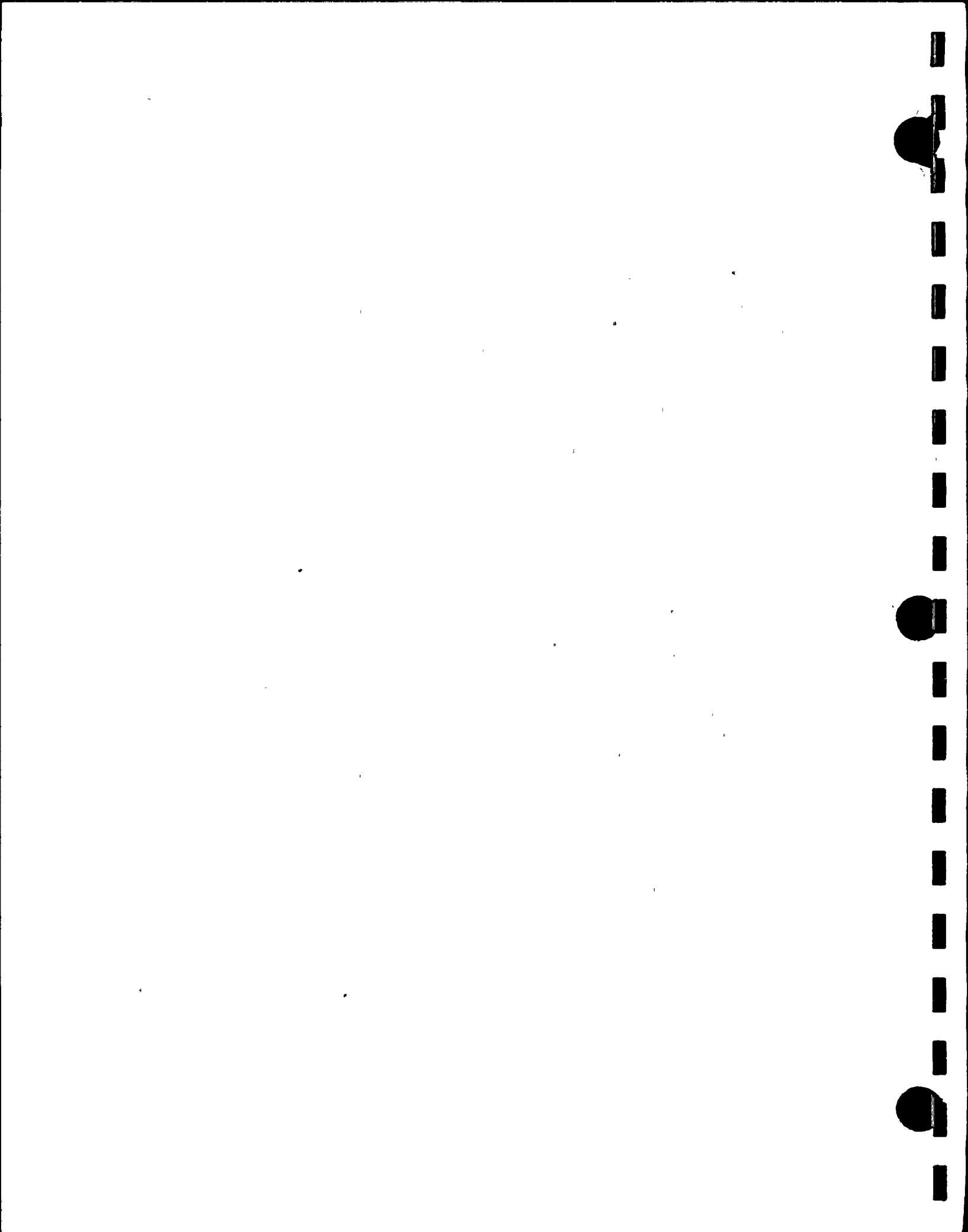


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## 1.0 INTRODUCTION

A Containment Integrated Leak Rate Test was conducted at D.C. Cook, Unit 2 Nuclear Station per Technical Specification, Procedure 2EHP4030STP.202 and 10CFR Part 50, Appendix J.

This report contains a description and analysis of the test as required by 10CFR Part 50, Appendix J. Paragraph V.B. The test Technical Data Summary is listed on Attachment 1.

## 2.0 PREREQUISITES

All instrumentation used for the D.C. Cook, Unit 2 Nuclear Station ILRT met the instrument selection guide (see Attachment 2), and the six month calibration and loop check requirements of ANSI N45.4 - 1972 and ANSI/ANS 56.8 - 1987. The containment interior and exterior were inspected to uncover any structural deterioration that could affect the containment integrity or leak tightness. No structural discrepancies were noted. The valve lineups were performed and independently verified. Two oil-free air compressors with a capacity of 3000 scfm were connected to the air dryer skid.

## 3.0 INSTRUMENTATION

The following instrumentation was used in the performance of the 1992 D.C. Cook, Unit 2 Nuclear Station Integrated Leakage Rate Test.

### 3.1 Pressure

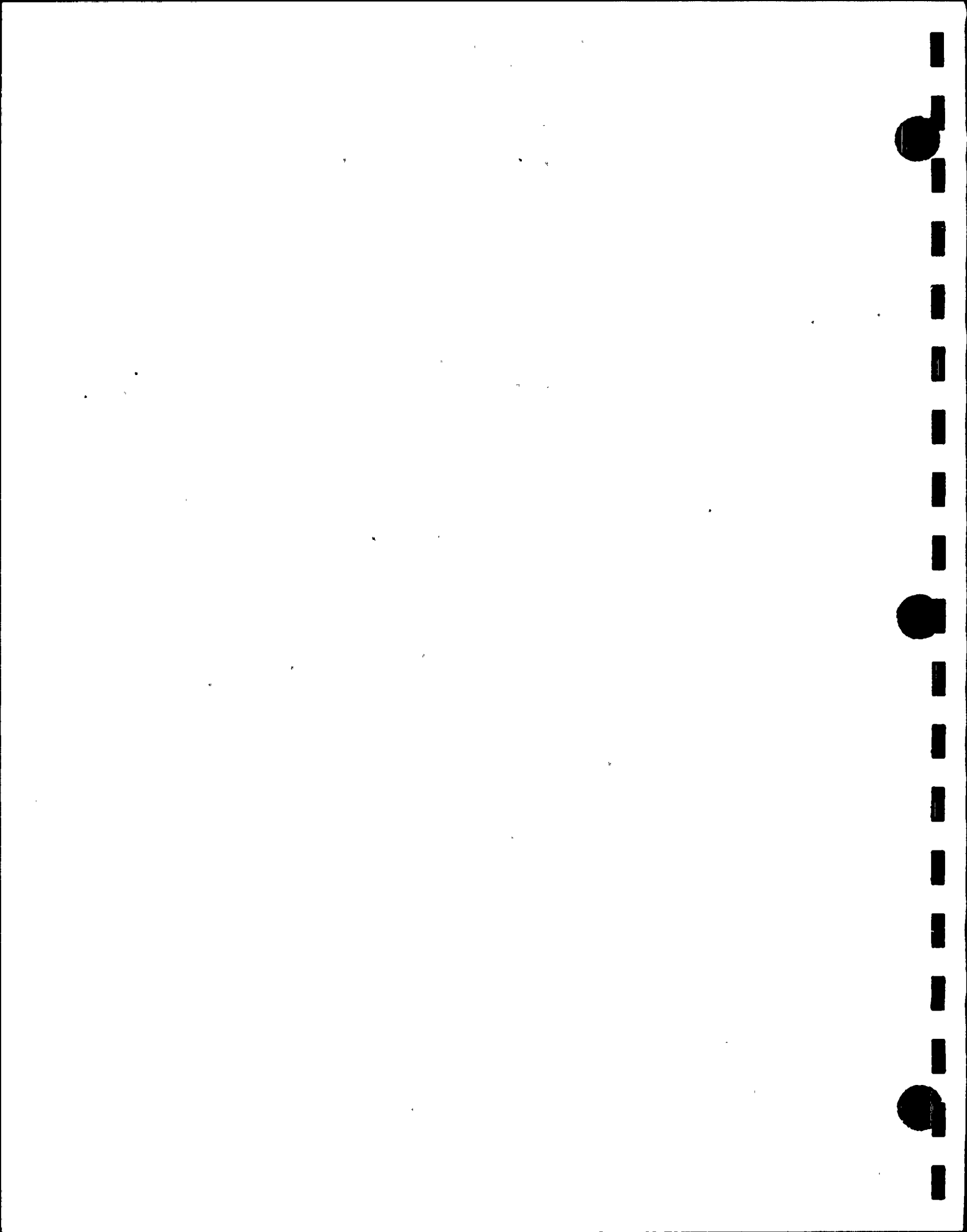
Six (6) precision pressure gauges with three vibrating stainless steel cylinder type sensors and three quartz vibrating transducers monitored containment pressure. The average of the six readings was utilized in the leakage rate calculations.

### 3.2 Dewpoint Temperature

Seven (7) chilled mirror dewpoint hygrometers were installed to measure the containment dewpoint temperature.

### 3.3 Drybulb Temperature

Containment drybulb temperature was monitored by forty-six (46) platinum Resistance Temperature Detectors (RTDs).



### 3.4 Flow Rate

The flow rate of the superimposed leak required for the verification test was measured by a rotameter.

### 3.5 Data Acquisition

A Fluke 2280 Data Acquisition System (DAS) was utilized to collect data from all sensors. A personal computer received the data from the DAS and performed the necessary calculations utilizing the ATEST software program for ILRT.

Instrument weighting factors and locations are listed on attachment 3A. Pressure and flow instrumentation are shown on Attachment 3B. Hygrometer and RTD locations are illustrated on Attachment 3C. A brief summary of the ATEST software is included as Attachment 3D.

## 4.0 TEMPERATURE STABILIZATION

Pressurization for the ILRT began at 00:36 on May 11, 1992, at a rate of approximately 1.8 psi per hour. The pressurization equipment was secured at 08:07 on May 11, 1992 with average containment pressure of 26.8409 psia.

The temperature stabilization period began at 08:15 on May 11, 1992. The criteria for temperature stabilization were:

- 1) The latest rate of change of the weighted average containment air temperature, averaged over the last hour, does not deviate by more than 0.5°F/hour from the average rate of change of the weighted average contained air temperature over the last four hours (ANSI/ANS 56.8-1987).
- 2) The rate of change of average temperature is less than 1°F/hour averaged over the last two hours (Bechtel Topical Report BN-TOP-1).
- 3) The rate of change of temperature changes less than 0.5°F/hour/hour averaged over the last two hours (Bechtel Topical Report BN-TOP-1).

All of the above criteria were met at 14:15 on May 11, 1992. Supporting graphs and listings are contained in Attachment 4.



## 5.0 TYPE A TEST

The Type A Test started at 14:30 on May 11, 1992. Containment pressure, weighted average temperature and weighted average dewpoint temperature were recorded at approximately fifteen minute intervals. The total time leakage rate was calculated per Bechtel Topical Report BN-TOP-1, Section 6.0. The mass point calculations were based on ANSI/ANS 56.8-1987, Section 5.7.

The Type A Test was concluded after 10 hours at 00:30 on May 12, 1992. Attachment 5 contains supporting graphs and listings pertaining to the Type A Test.

## 6.0 VERIFICATION TEST

Immediately following the Type A Test, a metering valve was adjusted on the rotameter to a flow rate of approximately 3.70 scfm. The Verification Test began at 01:45 on May 12, 1992. Containment pressure, weighted average temperature, and weighted average dewpoint temperature were again recorded at approximately fifteen minute intervals. The total time and mass point leakage rate analysis techniques were again employed.

The Verification Test ended at 07:15 on May 12, 1992. Graphs and listings related to the Verification Test are contained in Attachment 6.

## 7.0 TEST SUMMARY

The temperature stabilization period began at 08:15, the test criteria were satisfied at 12:15 and the Type A Test began at 14:15 on May 11, 1992. Temperature, dewpoint temperature, and pressure data were recorded at approximately fifteen minute intervals during the test.

A near zero leakage rate was calculated. Absence of leakage paths was confirmed through numerous plant walkdowns. The Type A Test was completed at 00:30 on May 12, 1992, with a Total Time Upper Confidence Level leak rate of 0.0344% wt/day and a Mass Point Upper Confidence leak rate of -0.00962% wt/day. See Attachment 7A for complete test results.

A superimposed leak of approximately 3.70 scfm was metered through a rotameter and the verification test began at 01:45 on May 12, 1992. Acceptability of the ILRT was demonstrated (see Attachment 7B) and the verification test was completed at 07:15. Depressurization of the containment began at 08:47 and was completed at 15:24.



The D.C. Cook Nuclear Plant, Unit 2 Containment Integrated Leak Rate Test was successfully completed demonstrating the leak-tight integrity of the reactor primary containment and the systems and components which penetrate the primary containment.

## 8.0 LOCAL LEAKAGE RATE TEST DATA

The 1990 and 1992 local leakage rate test results reflect the total leakage as determined by testing containment valves in series or with some penetrations between containment isolation valves. In 1992, the individual leakage from the inboard and outboard valves of each penetration which required corrective or preventive maintenance was also quantified. The As Found minus the As Left difference was reported in addition to the Type A leakage. This was done in order to reconstruct the as found condition of the primary containment before repairs were made.

A summary of the local leakage rate test data from 1990 and 1992 can be found in Attachment 8A. The data includes the as found leakage rates and the as left leakage rates. The leakage adjustments to the 1992 ILRT are listed on Attachment 8B.

## 9.0 BACKUP DATA

The backup data retained at D.C. Cook, Unit 2 Nuclear Station includes the following:

- Integrated Leakage Rate Test Procedure 2EHP4030STP.202
- Local Leakage Rate Test Procedure 2EHP4030STP.203
- Test Instrument Calibration Data
- Computer Program Verification and Validation
- Containment Penetration Listing
- System Status (at the time of the test)
- Test Director's Log
- Instrument Weighing Factor Data





## 10.0 EDITED LOG OF EVENTS

MAY 11, 1992

00:15 Completed Containment Inspection  
00:36 Started Pressurization of Containment  
08:07 Isolated ILRT pressurization valve at test pressure  
08:15 Temperature Stabilization period begun  
12:15 Temperature Stabilization criteria met  
14:15 Type A Test started

MAY 12, 1992

00:30 Type A Test complete. Commenced 1 hour Stabilization for Verification Test  
using rotameter 1 at 3.70 scfm  
01:45 Started Verification Test  
07:15 Ended Verification Test  
08:47 Started Depressurization  
15:24 Depressurization complete  
16:00 Completed post ILRT containment inspection



**D.C. Cook, Unit 2 Nuclear Station  
1992 ILRT TECHNICAL DATA SUMMARY**

**A. GENERAL DATA**

Owner:	Indiana Michigan Power Company
Docket No.:	50-316
Location:	Bridgman, Michigan
Containment Description:	PWR
Date Test Completed:	May 12, 1992

**B. TECHNICAL DATA**

Containment Free Volume:	1,178,590 cu. ft.
Design Pressure:	12.0 psig

**C. TEST DATA**

Test Method:	Absolute
Data Analysis Technique:	Total Time / Mass Point
Test Pressure:	Start: 26.7365psia
	End: 26.7224psia
Maximum Allowable Leak Rate ( $L_a$ ):	.25 %/24 hr.
Calculated Leakage UCL:	Total Time: .0344 %/24 hr.
	Mass Point: -.00962 %/24 hr.
LSF Leakage ( $L_{sm}$ ):	Total Time: -.0209 %/24 hr.
	Mass Point: -.01547 %/24 hr.

**D. VERIFICATION**

Calibrated Leak Superimposed ( $L_o$ ):	.247 %/24 hr.
Composite Leakage ( $L_c$ ):	Total Time: .1779 %/24 hr.
	Mass Point: .1907 %/24 hr.



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## INSTRUMENT SELECTION GUIDE

ISG	-	instrument selection guide
L	-	leakage rate, percent per day
t	-	test duration, hours
P	-	containment atmosphere total absolute pressure
P <sub>v</sub>	-	containment atmosphere partial pressure of water vapor
T	-	containment atmosphere weighted average absolute drybulb temperature
e	-	error associated with measurement of change in a given parameter
E	-	error associated with sensor (sensitivity)
ε	-	error associated with measurement system (excluding sensor)

## A. TEST PARAMETERS

L <sub>a</sub>	-	.25 %/day
P	-	26.612 psia
T	-	520.84°R drybulb
T <sub>dp</sub>	-	37.298°F dewpoint
t	-	10 hours

## B. INSTRUMENT PARAMETERS

## 1. Total absolute pressure error (°P)

No. of sensors: Paroscientifics Model	Quantity = 3
No. of sensors: Volumetrics Model	Quantity = 3
Range:	0 to 100 psia
Paro. Pressure sensor sensitivity error (°P):	.0001 psia
Volumetric Pressure sensor sensitivity error (°P):	.0001 psia
Paro. Pressure measurement system error (°P):	.000816 psia
Volumetric Pressure measurement system error (°P):	.001 psia

$$^{\circ}P = \pm [ (^E P)^2 + (^{\epsilon} P)^2 ]^{1/2} / [\text{no. of sensors}]^{1/2}$$

$$^{\circ}P = \pm [ (.0001)^2 + (.000816)^2 ]^{1/2} / [3]^{1/2} \quad (\text{Paro.})$$

$$^{\circ}P = \pm [ (.0001)^2 + (.001)^2 ]^{1/2} / [3]^{1/2} \quad (\text{Vol.})$$

$$^{\circ}P = \pm (.000580 + .000475) / 2$$

$$^{\circ}P = \pm .000527 \text{ psia}$$



2. Water vapor pressure error ( $^{\circ}\text{Pv}$ )

General Eastern Model M-1 Pacer Hygrometers

No. of sensors:

7

Range:

-32°F to 200°F

Vapor pressure sensor sensitivity error ( $^{\text{E}}\text{Pv}$ ): $\pm .54^{\circ}\text{F}$ Vapor pressure measurement system error ( $^{\text{e}}\text{Pv}$ ): $\pm .1979^{\circ}\text{F}$ 

$$^{\circ}\text{Pv} = \pm [ (^{\text{E}}\text{Pv})^2 + (^{\text{e}}\text{Pv})^2 ]^{1/2} / [\text{no. of sensors}]^{1/2}$$

$$^{\circ}\text{Pv} = \pm [ (.54)^2 + (.1979)^2 ]^{1/2} / [7]^{1/2}$$

$$^{\circ}\text{Pv} = \pm .000943 \text{ psia}$$

\* The equivalent water vapor change between 37°F and 38°F is 0.00434 psia/°F.  
(from Steam Tables)

3. Temperature error ( $^{\circ}\text{T}$ )

No. of sensors:

46

Range:

-148°F to 200°F

Temperature sensor sensitivity error ( $^{\text{E}}\text{T}$ ): $\pm .0045^{\circ}\text{F}$ Temperature measurement system error ( $^{\text{e}}\text{T}$ ): $\pm .0575^{\circ}\text{F}$ 

$$^{\circ}\text{T} = \pm [ (^{\text{E}}\text{T})^2 + (^{\text{e}}\text{T})^2 ]^{1/2} / [\text{no. sensors}]^{1/2}$$

$$^{\circ}\text{T} = \pm [ (.0045)^2 + (.0575)^2 ]^{1/2} / [46]^{1/2}$$

$$^{\circ}\text{T} = \pm .00850^{\circ}\text{R}$$

$$4. \text{ ISG} = \pm (2400/t) [2(^{\circ}\text{P}/\text{P})^2 + 2(^{\circ}\text{Pv}/\text{P})^2 + 2(^{\circ}\text{T}/\text{T})^2]^{1/2}$$

$$\text{ISG} = \pm (2400/10) [2(.000527/26.612)^2 + 2(.000943/26.612)^2 + 2(.0085/520.84)^2]^{1/2}$$

$$\text{ISG} = \pm 240 [7.843\text{E}-10 + 2.5113\text{E}-09 + 5.3267\text{E}-10]^{1/2}$$

$$\text{ISG} = \pm 0.01485\%/ \text{day}$$

The ISG formula does not exceed 0.25 La (0.0625%/day) and it is therefore concluded that the instrumentation selected was acceptable for use in determining the reactor containment integrated leakage rate.





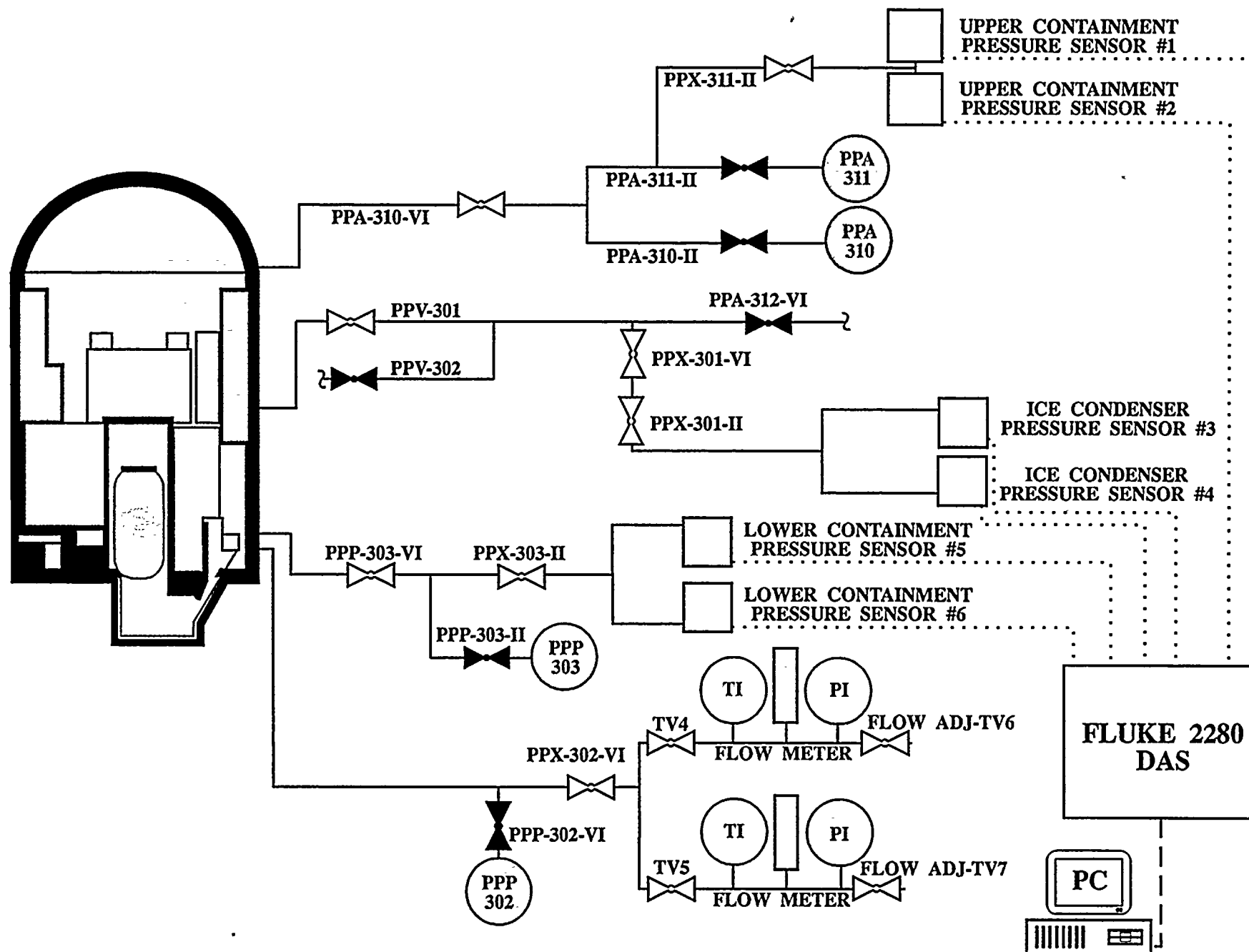
## INSTRUMENTATION LIST

No.	Description	Location	Elev.	Zone	Azim.	% Wt.
DC1	Dewpoint	Top of Dome	768'	1	001	.3366
DC2	Dewpoint	Doghouse	685'	1	284	.0992
DC3	Dewpoint	Below HV-CEQ-2	612'	1	106	.1312
DC4	Dewpoint	Near Glycol Exp. Tank	720'	3	090	.0398
DC5	Dewpoint	Below HV-CEG-1	612'	3	062	.0966
DC6	Dewpoint	W. RHR Fan Units	598'	2	185	.0474
DC7	Dewpoint	W. End PZR Relief Tank	598'	2	246	.2492
T1	Temperature	Top of Dome	768'	1	001	.0376
T2	Temperature	Near Top of Dome	741'	1	090	.0694
T3	Temperature	Cranewall, No. SG-22	712'	1	135	.0496
T4	Temperature	Cranewall, SG-24	712'	1	315	.0496
T5	Temperature	Ice Cond. Plenum	720'	1	001	.0574
T6	Temperature	Near Glycol Exp. Tank	720'	1	090	.0574
T7	Temperature	Upper Ice Cond.	720'	1	180	.0574
T8	Temperature	Upper Ice. Cond.	720'	1	270	.0574
T9	Temperature	SG-21 Doghouse	675'	1	045	.0177
T10	Temperature	SG-22 Doghouse	675'	1	135	.0177
T11	Temperature	SG-23 Doghouse	675'	1	189	.0177
T12	Temperature	SG-24 Doghouse	675'	1	350	.0177
T13	Temperature	RX Vessel Cavity	651'	2	270	.0307
T14	Temperature	Refueling Cavity	651'	1	077	.0442
T15	Temperature	Inside Upper Ice Cond.	700'	3	355	.0101
T16	Temperature	Inside Upper Ice Cond.	700'	3	355	.0101
T17	Temperature	Inside Upper Ice Cond.	700'	3	200	.0098
T18	Temperature	Inside Upper Ice Cond.	700'	3	200	.0098
T19	Temperature	Ice Cond. Lower Plenum	642'	3	026	.0303
T20	Temperature	Ice Cond. Lower Plenum	642'	3	275	.0379
T21	Temperature	Ice Cond. Lower Plenum	642'	3	151	.0284
T22	Temperature	SG-21 Dghse, NE of SG	680'	2	038	.0110
T23	Temperature	SG-22 Dghse, NE of SG	680'	2	143	.0110
T24	Temperature	SG-23 Dghse, SE of SG	680'	2	221	.0110
T25	Temperature	SG-24 Dghse, SE of SG	680'	2	320	.0110
T26	Temperature	Pzr Dghse, No. wall	685'	2	284	.0027
T27	Temperature	Instrument Room	625'	2	NA	.0075
T28	Temperature	Below HV-CEG-1	612'	1	062	.0062
T29	Temperature	E. "CAN" Lower Vent Rm	612'	2	356	.0156
T30	Temperature	Top Regen Heat Exch. Rm	612'	2	295	.0023
T31	Temperature	Instr. Rm, Col. 14 & 15	612'	2	256	.0071
T32	Temperature	W. "CAN" Lower Vent Rm	612'	2	184	.0156
T33	Temperature	Below HV-CEQ-2	612'	2	106	.0100
T34	Temperature	By RCP-22 & S/G-22	625'	2	144	.0276

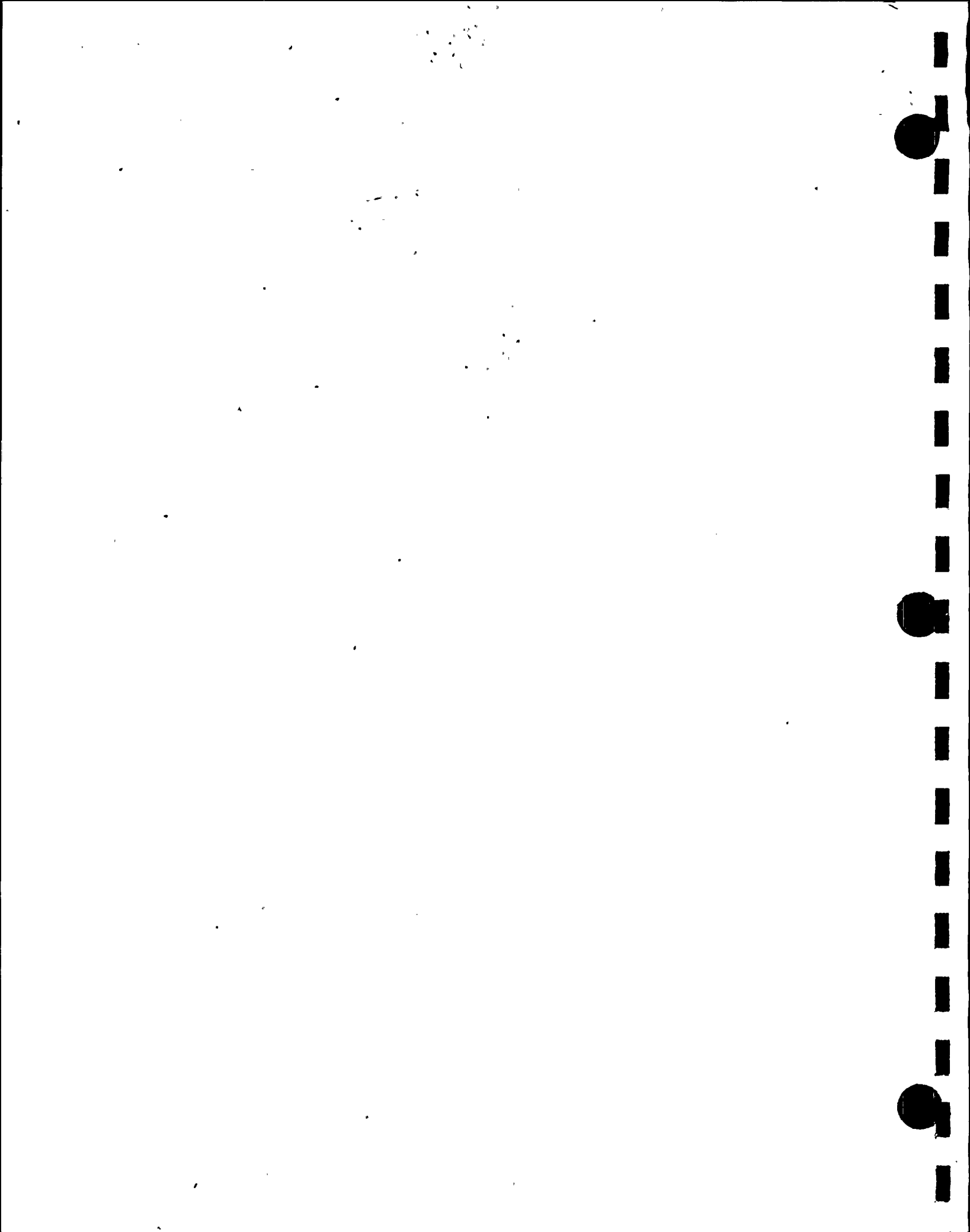


## INSTRUMENTATION LIST

No.	Description	Location	Elev.	Zone	Azim.	Wt.
T35	Temperature	By RCP-21 & S/G-21	625'	2	036	.0276
T36	Temperature	By RCP-23 & S/G-23	625'	2	221	.0276
T37	Temperature	By RCP-24 & S/G-24	625'	2	321	.0276
T38	Temperature	W. End PZR Relief Tank	598'	2	246	.0133
T39	Temperature	W. End RX Cool Dm Tank	598'	2	100	.0025
T40	Temperature	Below E Clv Fan Rm Htch	598'	2	004	.0065
T41	Temperature	NE HV-CEQ-1 Ladder	598'	2	060	.0039
T42	Temperature	N. HV-CEQ-2 Ladder	598'	2	120	.0045
T43	Temperature	W. RHR Fan Units	598'	2	185	.0066
T44	Temperature	NE Col 15, "CAN" Wall	598'	2	240	.0058
T45	Temperature	SE Ladder Regen Heat Ex	598'	2	303	.0064
T46	Temperature	RX Cavity Pit	569'	2	292	.0112
P1	Pressure 1	Reactor Bldg. SE	Lower	1	N/A	.1483
P2	Pressure 2	Reactor Bldg. SE	Lower	1	N/A	.1483
P3	Pressure 1	Reactor Bldg. SE	Ice	3	N/A	.0682
P4	Pressure 2	Reactor Bldg. SE	Ice	3	N/A	.0682
P5	Pressure 1	Reactor Bldg. SE	Upper	2	N/A	.2835
P6	Pressure 2	Reactor Bldg. SE	Upper	2	N/A	.2835
FR1	Flow Rate 1	Reactor Bldg. SE	-		N/A	.0000
FR2	Flow Rate 2	Reactor Bldg. SE	-		N/A	1.0000



# PRESSURE & FLOW INSTRUMENTATION



# RTD & HYGROMETER LOCATIONS

Elev. 760'

Elev. 715'

Elev. 701'

Elev. 694'

Elev. 681'

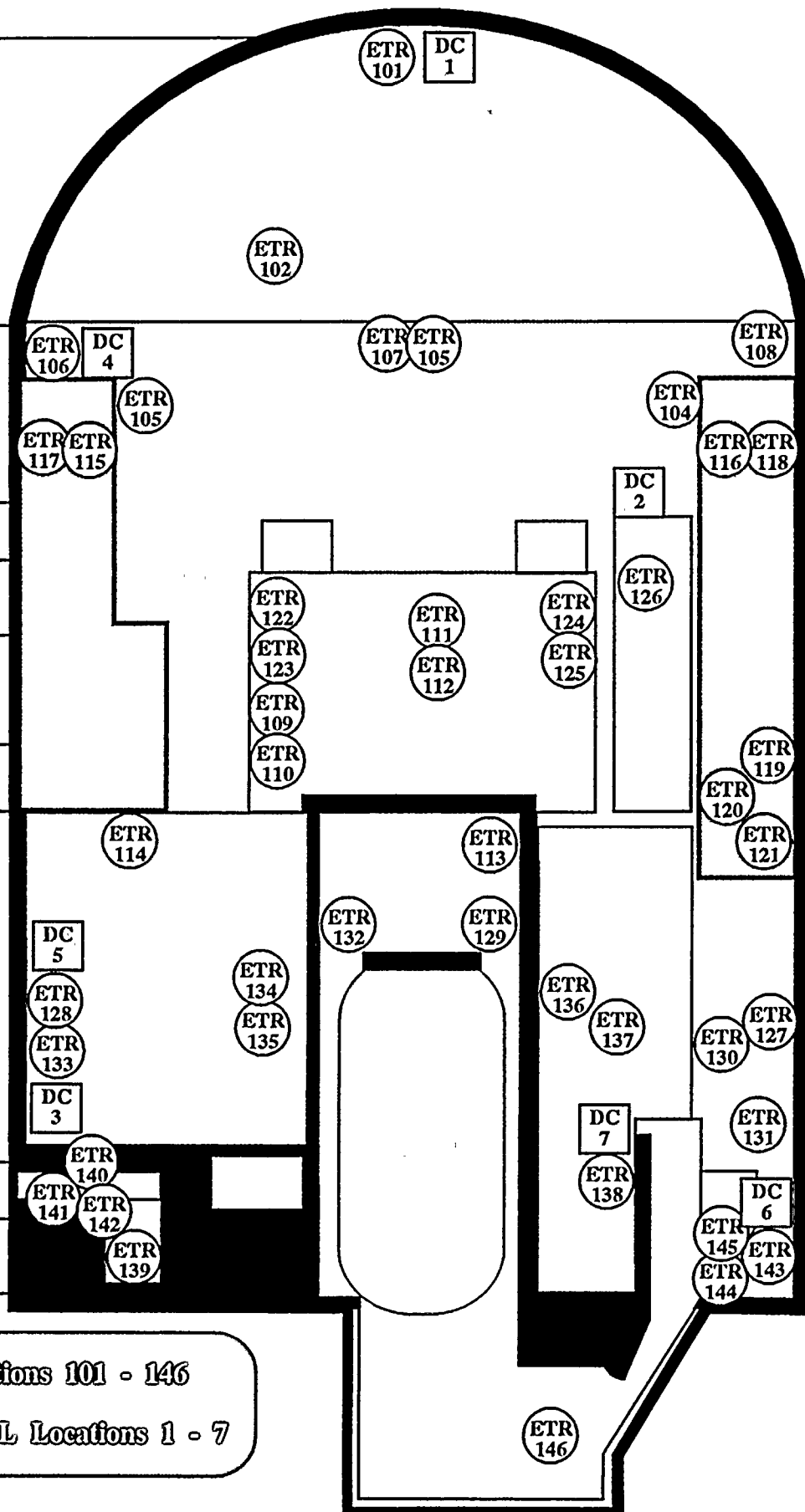
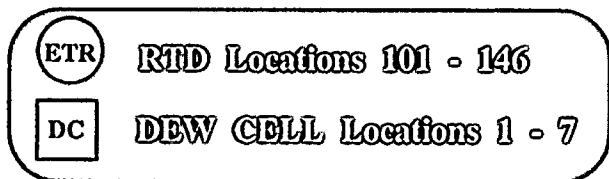
Elev. 644'

Elev. 652'

Elev. 618'

Elev. 612'

Elev. 598'



## ATEST SOFTWARE SUMMARY

### 1.0 INTRODUCTION

The Type A Test is an integrated leakage rate test (ILRT) designed to verify the leak test integrity of the entire containment building. This test is performed at approximately three-year intervals as required by Appendix J of 10 CFR 50. It is performed in accordance with the American National Standard "Containment System Leakage Testing Requirements," (ANSI/ANS- 56.8-1987), American National Standard "Leakage Rate Testing of Primary Containment for Nuclear Power Plants," (ANSI N45.4-1972), and the Bechtel Topical Report "Testing Criteria for Integrated Leakage Rate Testing of Nuclear Power Plants," (BN-TOP-1, Rev. 1- 1972).

The ATEST program computes total time leakage rates, mass point leakage rates, LSF leakage rates, and 95% upper confidence level (UCL) leakage rates during the course of the test from input measured values of containment pressure, temperature and dew point.

The ATEST program is also capable of performing the verification phase and will generate specific verifications features to aid in verifying the Type A test.

The program is designed to automate the task of sampling and reducing the data to a usable form in accordance with the above documents. This greatly limits the possibility of human error and provides intermediate results after a short delay. This makes it possible to monitor the progress of the test very closely in approximately real time. For each of the two test periods, the ATEST program samples the containment's environment and calculates the values needed to assess the status of the test. Interim results are provided as desired and the program checks to see if the acceptance criteria have been satisfied for the two test periods. The program also produces a printout of all data gathered as well as a record of its calculations. In addition, the data is stored on hard or floppy computer disks for future reference. The program can recover from a power failure or any other accidental interruptions of the program's execution by reloading the old data and restarting the data sampling routine at the proper location. Lastly, should one of the RTDs fail during the test, the program will detect the problem and the user can remove that sensor from further calculations. When the test is completed, the program has the ability to recalculate all values for the test, suppressing any failed sensors or instruments from the entire series of calculations.

ATEST is written in a high level language (QuickBASIC) and is designed for use on a micro-computer with direct data input from the data acquisition system. Brief descriptions of program use, formulae used for leakage rate computations, and program logic are provided in the following sections.

### 2.0 EXPLANATION OF PROGRAM

The ATEST computer program is written for use by experienced ILRT personnel, to determine containment integrated leakage rates based on the Absolute Method described in ANSI N45.4-1972, ANSI/ANS 56.8-1987, and BN-TOP-1.

Information loaded into the program prior to or at the start of the test:

- a. Number of containment atmosphere drybulb temperature sensors, dew point temperature (water vapor pressure) sensors and pressure gages to be used in leakage rate computations for the specific test.
- b. Volume fractions assigned to each of the above sensors.





- c. Calibration data for above sensors.
- d. Test title.
- e. Test pressure.
- f. Maximum available leakage rate at test pressure.

Data recorded from the data acquisition system during the test, and used to compute leakage rates:

- a. Time and date.
- b. Containment atmosphere drybulb temperatures.
- c. Containment atmosphere pressure(s).
- d. Containment atmosphere dew point temperatures.
- e. Containment free air volume.

If an instrument or sensor should fail during the test, the data from the sensor is not used. The volume fractions for the remaining sensors are recomputed and reloaded into the program for use in ensuing leakage rate computations.

### 3.0 PROGRAM LOGIC AND OPERATION SUMMARY

The ATEST computer program user logic flow is controlled by a set of user options (see chart). These options (shown on the screen) and a brief description of their associated function are presented below:

<b>LOG ON/OFF</b>	Allows for the use of the data acquisition system for electronic entry and permanent recording of data. Conversely, this toggle can suspend the entry/recording process.
<b>AUTO/MANUAL</b>	This key (de)activates the automatic data entry and allows manual entry.
<b>MAINT</b>	Provides for maintenance of the data, calibration, and weighting factor files. Its features include defining weighting factors, changing the time increment of logging data, deleting a file record, displaying a record's average environmental contents, and changes the individual record's content (see second screen). This key has several sub-tiers.
<b>INPUT</b>	Provides for either a pre-arranged manual entry(s) or in the MANUAL mode, the method to input the recorded data.
<b>REPORTS</b>	This key performs the calculations of program and prints the results. This key has several sub-tiers.
<b>PLOTS</b>	This function implements the graphics portion of the program. Any channel or leakage rate can be plotted. This key has several sub- tiers.
<b>END JOB</b>	This key will properly terminate the program.



## 4.0 COMPUTER REPORTS AND PLOTS

### 4.1 Reports

**REPORTS** Does the analysis of the data accumulated by the ILRT system and then prints out a report of the results. The types of analysis performed are: mass point, total time, environmental averages, mass loss, temperature stabilization, and data rejection. All results from the analysis are printed off a thermal printer. The subprogram REPORTS requires the user to select a valid time window or record window as listed below as a prerequisite for doing analysis.

**SENSOR LIST** This report outputs all the sensor data for the selected records.

**MASS LOSS** The mass loss analysis is based on the ANSI/ANS 56.8-1987 Standard acceptance criteria and calculations.

**TEMP STAB** The temperature stabilization analysis is based on the Bechtel Topical Report (BN-TOP-1) and the ANSI/ANS 56.8-1987 Standard with their respective acceptance criteria and calculations. The harmonic weighted average method is used.

**DATA REJECTION** The data rejection analysis is based on the Bechtel Topical Report (BN-TOP-1) and the ANSI/ANS 56.8-1987 Standard, Appendix D, with their respective acceptance criteria and calculations.

**TOTAL TIME** The total time analysis is based on the Bechtel Topical Report (BN-TOP-1) and its acceptance criteria and calculations.

**MASS POINT** The mass point analysis is based on the ANSI/ANS 56.8-1987 Standard acceptance criteria and calculations.

**ENVIRONMENT** The environment analysis is based on the Bechtel Topical Report (BN-TOP-1) and the ANSI/ANS 56.8-1987 Standard with their respective acceptance criteria and calculations.

**POINT TO POINT** The point to point analysis is based on the ANSI N45.4-1972 Standard and its acceptance criteria and calculations.

### 4.2 Plots

The Graphics subprogram allows the user to plot the mass point analysis, total time analysis, and displayed channels. Further, plots can be made in a batch mode by instrument type to a printer or a plotter. PLOTS performs autoranging on the data being plotted for axes values. PLOTS requires the user to select any valid time window or record window as a prerequisite for doing plotting.



## Attachment 4A

\*\*\*\*\*  
 DATE - 06-05-1992

## TEMPERATURE STABILIZATION

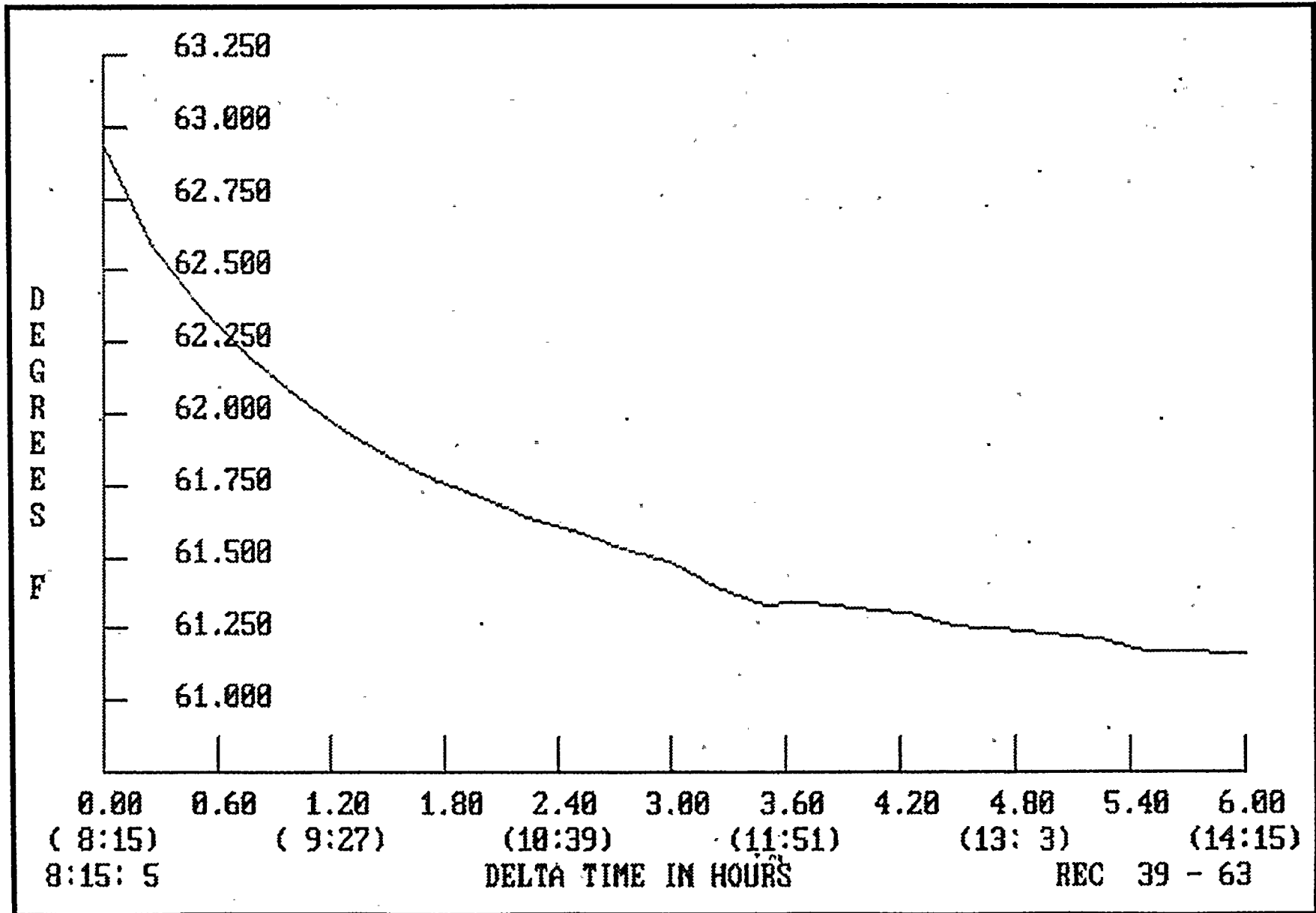
\*\*\*\*\*  
 TIME - 14:06:22

TIME (DELTA) (HOURS)	TEMP TEMP	TEMP DIFF INCR	TEMP AVG (1 HR)	BN-TOP-1 AVG (2 HR)	BN-TOP-1 RATE (2 HR)	TEMP AVG (4 HR)	ANSI CRIT
0.00	522.602	0.000	0.000	0.000	0.000	0.000	0.000
0.25	522.265	-0.336	0.000	0.000	0.000	0.000	0.000
0.50	522.045	-0.220	0.000	0.000	0.000	0.000	0.000
0.75	521.884	-0.161	0.000	0.000	0.000	0.000	0.000
1.00	521.749	-0.135	522.175	0.000	0.000	0.000	0.000
1.25	521.626	-0.123	521.946	0.000	0.000	0.000	0.000
1.50	521.527	-0.099	521.786	0.000	0.000	0.000	0.000
1.75	521.450	-0.077	521.667	0.000	0.000	0.000	0.000
2.00	521.385	-0.065	521.567	-0.609	0.609	0.000	0.000
2.25	521.315	-0.070	521.470	-0.475	0.475	0.000	0.000
2.50	521.262	-0.052	521.395	-0.391	0.391	0.000	0.000
2.75	521.199	-0.063	521.324	-0.342	0.342	0.000	0.000
3.00	521.153	-0.046	521.269	-0.298	0.298	0.000	0.000
3.25	521.068	-0.085	521.191	-0.279	0.279	0.000	0.000
3.50	521.000	-0.068	521.131	-0.263	0.263	0.000	0.000
3.75	521.014	0.014	521.107	-0.218	0.218	0.000	0.000
4.00	520.994	-0.020	521.074	-0.195	0.195	-0.402	0.243
4.25	520.980	-0.014	521.024	-0.167	0.167	-0.321	0.234
4.50	520.936	-0.044	520.968	-0.163	0.163	-0.277	0.213
4.75	520.920	-0.017	520.967	-0.140	0.140	-0.241	0.147
5.00	520.902	-0.017	520.948	-0.125	0.125	-0.212	0.120
5.25	520.888	-0.014	520.934	-0.090	0.090	-0.185	0.092
5.50	520.844	-0.044	520.890	-0.078	0.078	-0.171	0.078
5.75	520.839	-0.004	520.880	-0.087	0.087	-0.153	0.072
6.00	520.837	-0.002	520.870	-0.079	0.079	-0.137	0.072



# AVERAGE TEMPERATURE - TEMPERATURE STABILIZATION

D.C. COOK - Unit 2, May 11, 1992



Attachment 4B





## Attachment 5A

\*\*\*\*\*  
DATE - 06-05-1992

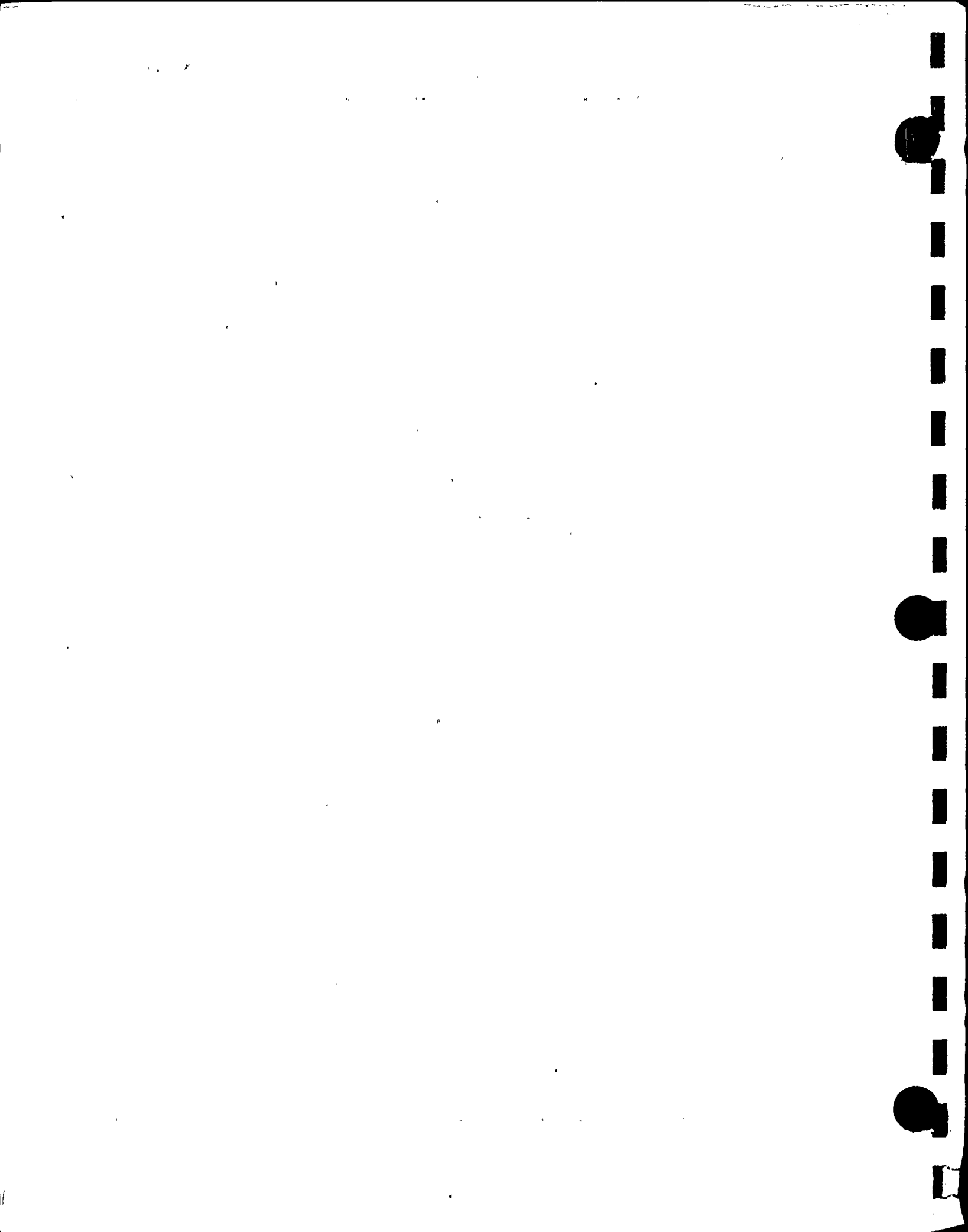
## TOTAL TIME CALCULATION RESULTS

\*\*\*\*\*  
TIME - 14:21:45

TIME	TEMP	VAPOR PRESS	DEW POINT	CORR. AIR PRESS	LSF LEAK RATE	UPPER CONF LEVEL	MEASURED LEAK RATE
1430	520.814	0.1285	41.406	26.608	0.0000	0.00000	0.00000
1445	520.805	0.1277	41.255	26.607	0.0000	0.00000	0.06904
1500	520.792	0.1276	41.223	26.606	0.0968	0.00000	0.09679
1515	520.787	0.1268	41.063	26.606	0.0701	0.34904	0.05924
1530	520.779	0.1258	40.870	26.606	0.0465	0.15822	0.03842
1545	520.761	0.1251	40.719	26.605	0.0061	0.10852	-0.01214
1600	520.743	0.1249	40.685	26.605	-0.0148	0.05589	-0.01385
1615	520.721	0.1245	40.597	26.604	-0.0470	0.01726	-0.05897
1630	520.724	0.1234	40.371	26.604	-0.0620	-0.00320	-0.04923
1645	520.745	0.1231	40.297	26.604	-0.0455	0.07366	0.01851
1700	520.730	0.1229	40.259	26.604	-0.0375	0.07374	0.00701
1715	520.725	0.1219	40.057	26.604	-0.0344	0.06940	-0.00255
1730	520.727	0.1213	39.923	26.603	-0.0305	0.07070	0.00201
1745	520.717	0.1207	39.800	26.604	-0.0327	0.06025	-0.01790
1800	520.713	0.1195	39.536	26.604	-0.0368	0.05068	-0.02767
1815	520.720	0.1192	39.478	26.604	-0.0362	0.04981	-0.01269
1830	520.722	0.1193	39.504	26.603	-0.0314	0.05646	0.00536
1845	520.718	0.1182	39.269	26.604	-0.0324	0.04955	-0.01798
1900	520.704	0.1179	39.191	26.604	-0.0343	0.04444	-0.02335
1915	520.743	0.1171	39.034	26.604	-0.0300	0.05133	0.00617
1930	520.746	0.1169	38.982	26.604	-0.0264	0.05387	0.00585
1945	520.747	0.1166	38.908	26.604	-0.0220	0.05834	0.01276
2000	520.746	0.1161	38.813	26.604	-0.0196	0.05832	0.00468
2015	520.755	0.1158	38.746	26.604	-0.0169	0.06011	0.00890
2030	520.757	0.1153	38.619	26.605	-0.0149	0.06043	0.00635
2045	520.758	0.1147	38.498	26.605	-0.0138	0.05955	0.00156
2100	520.768	0.1140	38.328	26.606	-0.0133	0.05819	-0.00186
2115	520.778	0.1142	38.373	26.606	-0.0116	0.05903	0.00728
2130	520.770	0.1135	38.234	26.606	-0.0120	0.05667	-0.00628
2145	520.781	0.1128	38.074	26.607	-0.0120	0.05526	-0.00423
2200	520.787	0.1125	37.994	26.607	-0.0124	0.05333	-0.00805
2215	520.789	0.1119	37.869	26.608	-0.0134	0.05095	-0.01294
2230	520.807	0.1119	37.865	26.608	-0.0133	0.05002	-0.00436
2245	520.802	0.1111	37.681	26.609	-0.0146	0.04739	-0.01715
2300	520.814	0.1114	37.755	26.609	-0.0150	0.04596	-0.00970
2315	520.816	0.1110	37.666	26.609	-0.0158	0.04408	-0.01395
2330	520.826	0.1109	37.637	26.610	-0.0160	0.04295	-0.00937
2345	520.829	0.1107	37.589	26.610	-0.0166	0.04127	-0.01411
0	520.839	0.1098	37.372	26.612	-0.0180	0.03899	-0.02193
15	520.836	0.1097	37.349	26.612	-0.0195	0.03660	-0.02485
30	520.840	0.1094	37.298	26.612	-0.0209	0.03440	-0.02431

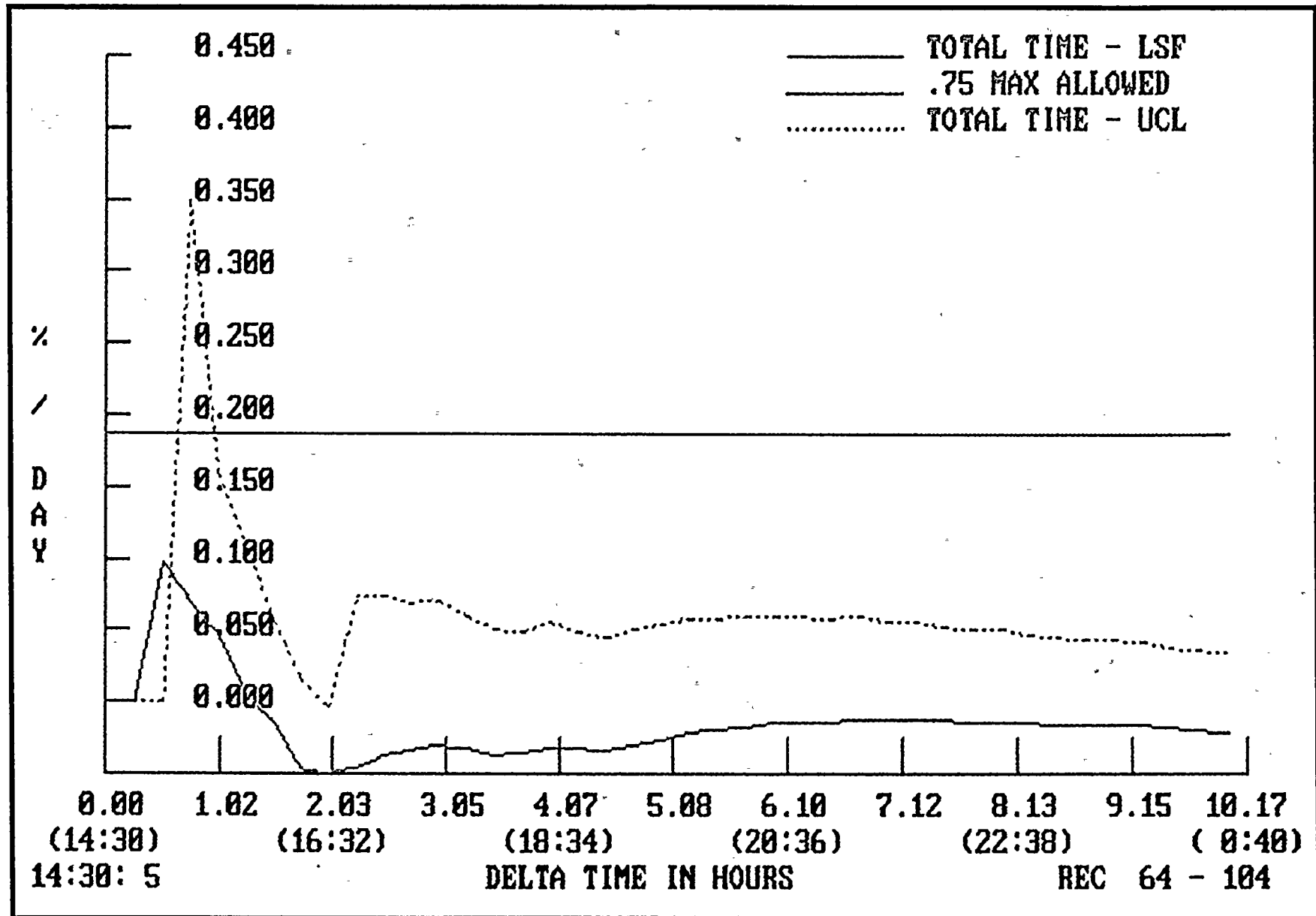
MEASURED LEAK RATE USING TOTAL TIME: -0.020890

THE MEAN TOTAL TIME RATE OF -0.005070  
IS LESS THAN ALLOWABLE MAXIMUM RATE OF .25



# TOTAL TIME - TYPE A TEST

D.C. COOK - Unit 2, May 12, 1992





## Attachment 5C

\*\*\*\*\*

MASS POINT

\*\*\*\*\*

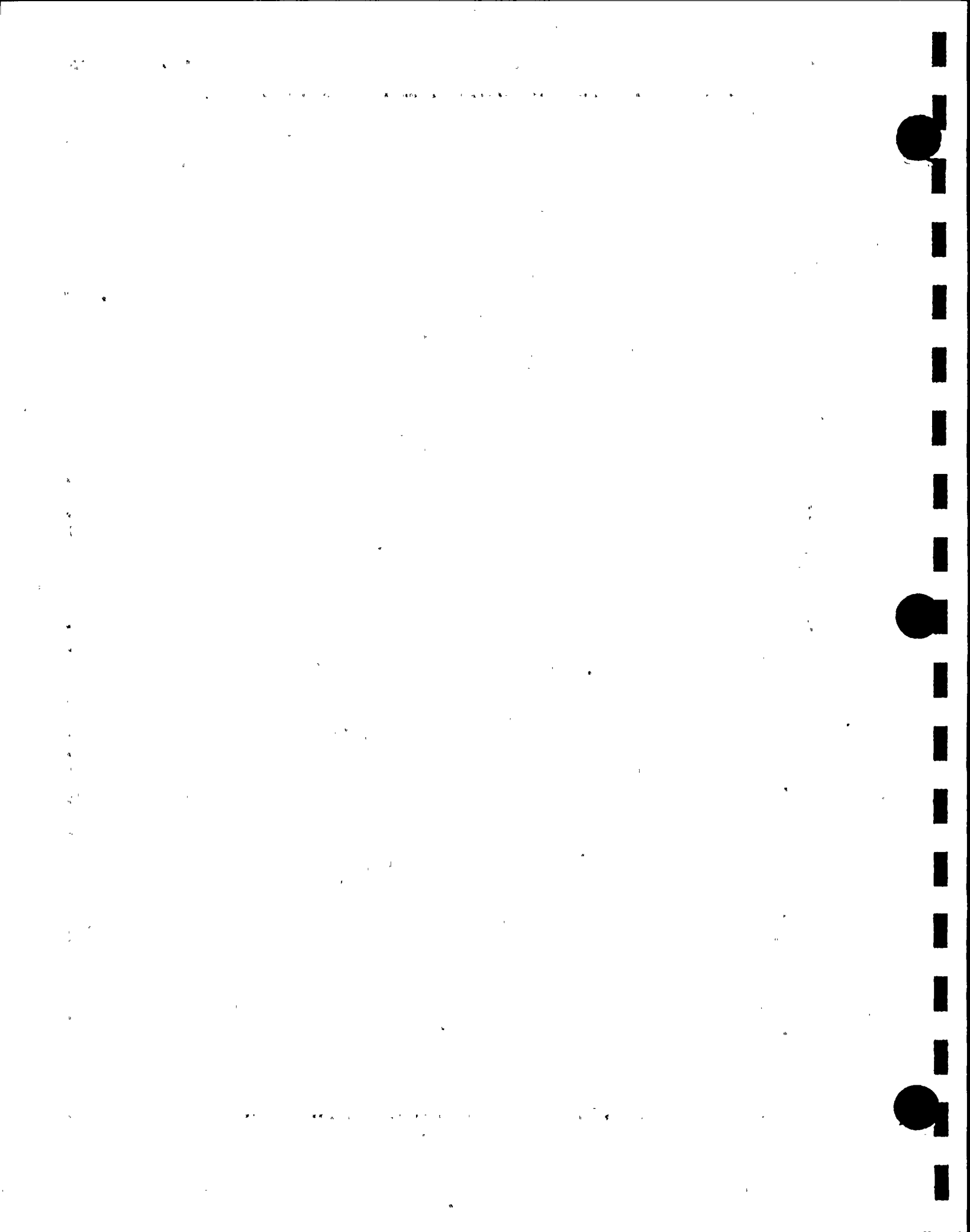
DATE - 06-05-1992

TIME - 14:21:50

TIME	TEMP	VAPOR PRESS	DEW POINT	CORR. AIR PRESS	CONT AIR MASS	LSF LEAK RATE	UPPER CONF LEVEL
1430	520.814	0.1285	41.406	26.608	1.00000000	0.00000	0.00000
1445	520.805	0.1277	41.255	26.607	0.99999279	0.00000	0.00000
1500	520.792	0.1276	41.223	26.606	0.99997979	0.09699	0.00000
1515	520.787	0.1268	41.063	26.606	0.99998146	0.06586	0.12279
1530	520.779	0.1258	40.870	26.606	0.99998397	0.04166	0.08378
1545	520.761	0.1251	40.719	26.605	1.00000632	-0.00186	0.05723
1600	520.743	0.1249	40.685	26.605	1.00000858	-0.01954	0.02499
1615	520.721	0.1245	40.597	26.604	1.00004292	-0.05274	-0.00363
1630	520.724	0.1234	40.371	26.604	1.00004101	-0.06350	-0.02458
1645	520.745	0.1231	40.297	26.604	0.99998266	-0.03495	0.00826
1700	520.730	0.1229	40.259	26.604	0.99999273	-0.02219	0.01512
1715	520.725	0.1219	40.057	26.604	1.00000286	-0.01772	0.01333
1730	520.727	0.1213	39.923	26.603	0.99999744	-0.01271	0.01380
1745	520.717	0.1207	39.800	26.604	1.00002420	-0.01654	0.00633
1800	520.713	0.1195	39.536	26.604	1.00004029	-0.02248	-0.00188
1815	520.720	0.1192	39.478	26.604	1.00001979	-0.02162	-0.00368
1830	520.722	0.1193	39.504	26.603	0.99999106	-0.01519	0.00184
1845	520.718	0.1182	39.269	26.604	1.00003183	-0.01728	-0.00206
1900	520.704	0.1179	39.191	26.604	1.00004375	-0.02032	-0.00641
1915	520.743	0.1171	39.034	26.604	0.99998772	-0.01455	-0.00081
1930	520.746	0.1169	38.982	26.604	0.99998784	-0.01011	0.00306
1945	520.747	0.1166	38.908	26.604	0.99997205	-0.00485	0.00818
2000	520.746	0.1161	38.813	26.604	0.99998921	-0.00259	0.00948
2015	520.755	0.1158	38.746	26.604	0.99997866	0.00019	0.01157
2030	520.757	0.1153	38.619	26.605	0.99998409	0.00187	0.01245
2045	520.758	0.1147	38.498	26.605	0.99999589	0.00220	0.01196
2100	520.768	0.1140	38.328	26.606	1.00000501	0.00176	0.01079
2115	520.778	0.1142	38.373	26.606	0.99997950	0.00320	0.01169
2130	520.770	0.1135	38.234	26.606	1.00001836	0.00177	0.00978
2145	520.781	0.1128	38.074	26.607	1.00001276	0.00094	0.00845
2200	520.787	0.1125	37.994	26.607	1.00002503	-0.00046	0.00669
2215	520.789	0.1119	37.869	26.608	1.00004172	-0.00252	0.00448
2230	520.807	0.1119	37.865	26.608	1.00001454	-0.00282	0.00376
2245	520.802	0.1111	37.681	26.609	1.00005889	-0.00520	0.00141
2300	520.814	0.1114	37.755	26.609	1.00003433	-0.00604	0.00023
2315	520.816	0.1110	37.666	26.609	1.00005078	-0.00744	-0.00137
2330	520.826	0.1109	37.637	26.610	1.00003505	-0.00795	-0.00218
2345	520.829	0.1107	37.589	26.610	1.00005436	-0.00910	-0.00353
0	520.839	0.1098	37.372	26.612	1.00008678	-0.01124	-0.00556
15	520.836	0.1097	37.349	26.612	1.00010097	-0.01354	-0.00770
30	520.840	0.1094	37.298	26.612	1.00010133	-0.01547	-0.00962

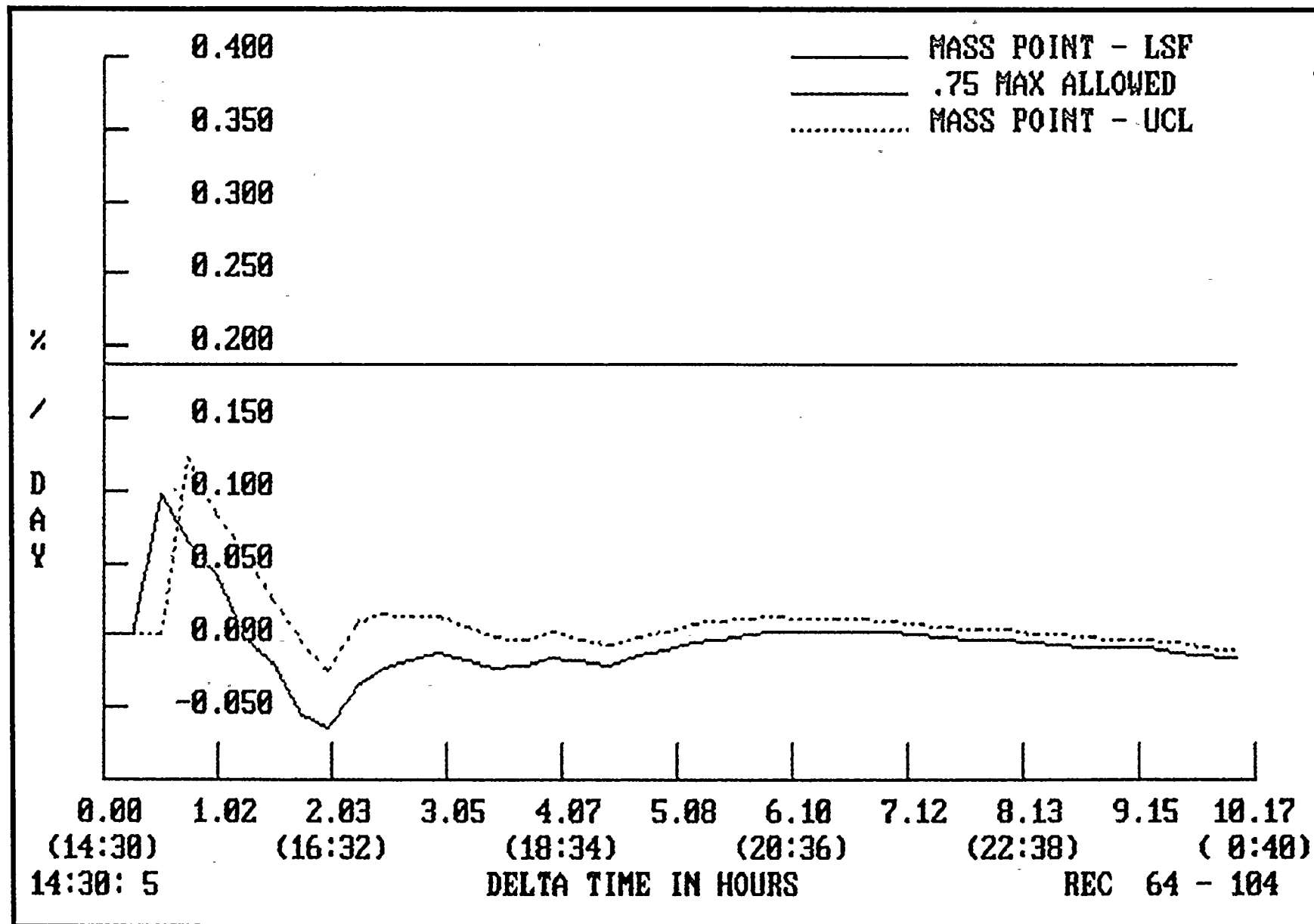
MAX ALLOWABLE LEAK RATE : .25  
75% OF MAX ALLOWABLE LEAK RATE

.1875



# MASS POINT - TYPE A TEST

D.C. COOK - Unit 2, May 12, 1992



10:00:00

DEFERRED TIME IN MONTH

10:00:00

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## Attachment 5E

\*\*\*\*\*  
DATE - 06-05-1992

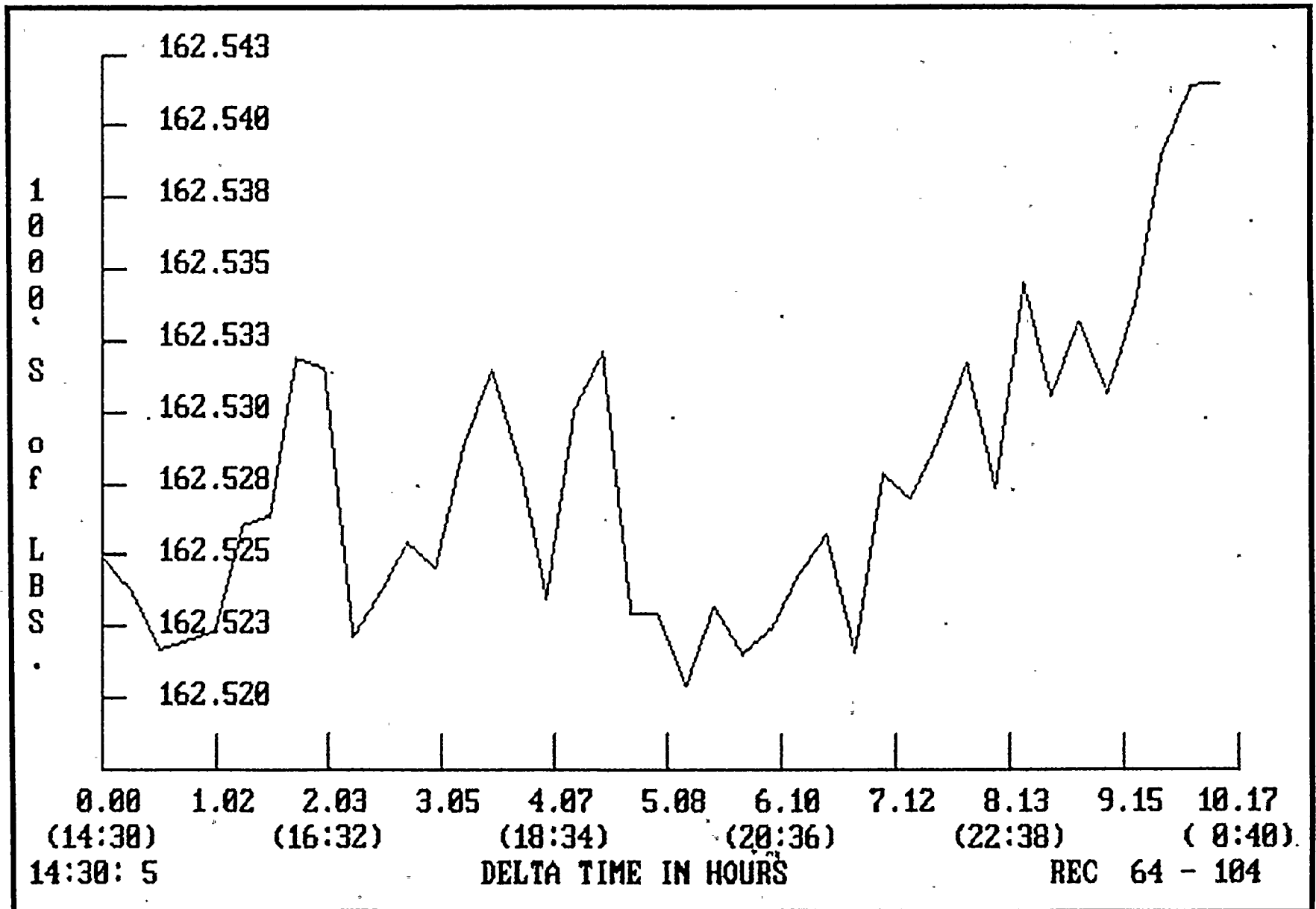
## MASS LOSS

\*\*\*\*\*  
TIME - 14:21:29

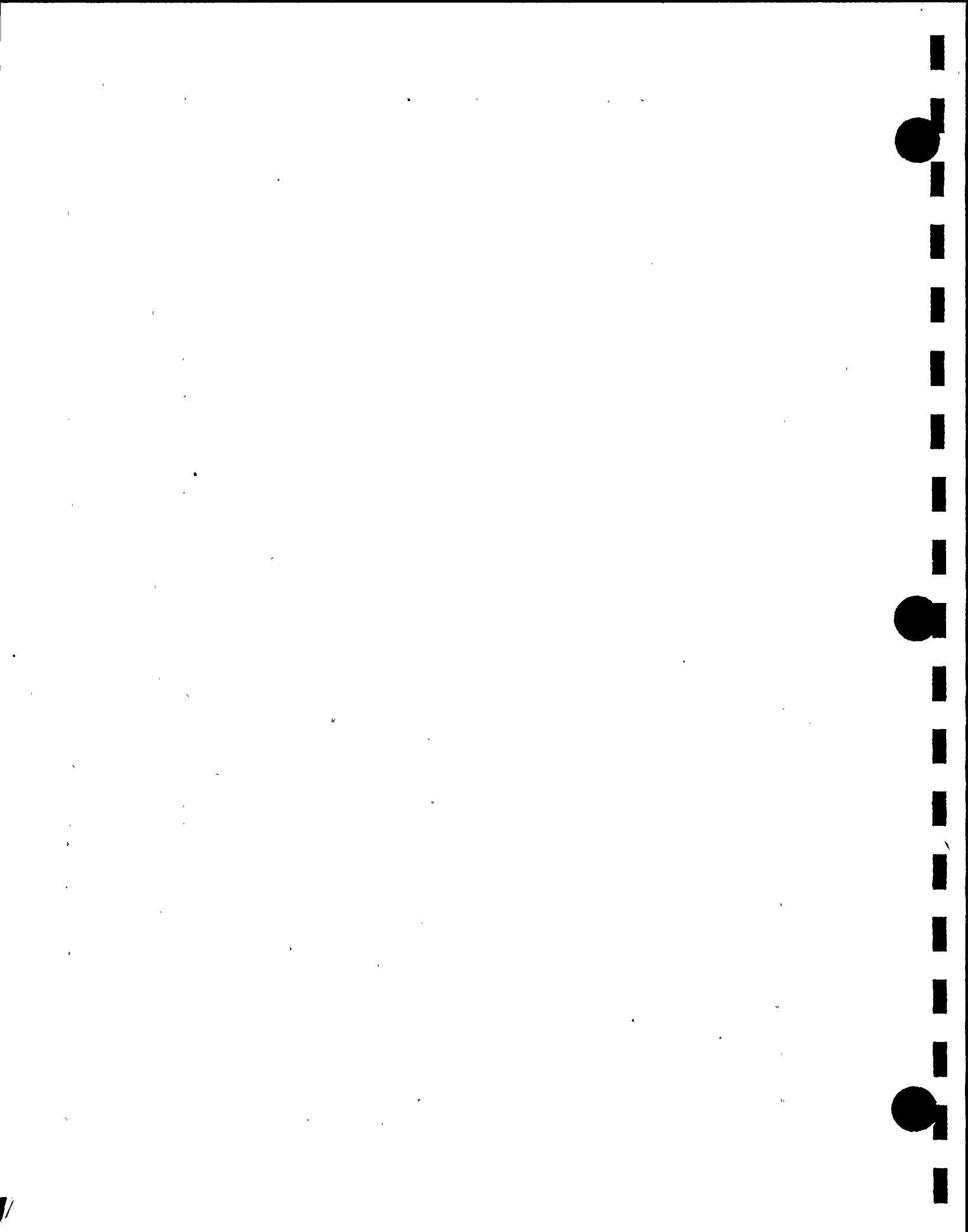
REC NUM	TIME DELTA (HOURS)	CONT AIR MASS	MASS LOSS INCR	MASS LOSS (1 HR)	MASS LOSS (x 24)
64	0.00	162525.000	0.000	0.000	0.000
65	0.25	162523.828	-1.172	0.000	0.000
66	0.50	162521.734	-2.094	0.000	0.000
67	0.75	162522.000	0.266	0.000	0.000
68	1.00	162522.406	0.406	2.594	62.250
69	1.25	162526.031	3.625	-2.203	-52.875
70	1.50	162526.406	0.375	-4.672	-112.125
71	1.75	162532.000	5.594	-10.000	-240.000
72	2.00	162531.672	-0.328	-9.266	-222.375
73	2.25	162522.188	-9.484	3.844	92.250
74	2.50	162523.813	1.625	2.594	62.250
75	2.75	162525.484	1.672	6.516	156.375
76	3.00	162524.594	-0.891	7.078	169.875
77	3.25	162528.938	4.344	-6.750	-162.000
78	3.50	162531.563	2.625	-7.750	-186.000
79	3.75	162528.234	-3.328	-2.750	-66.000
80	4.00	162523.547	-4.688	1.047	25.125
81	4.25	162530.172	6.625	-1.234	-29.625
82	4.50	162532.125	1.953	-0.563	-13.500
83	4.75	162523.016	-9.109	5.219	125.250
84	5.00	162523.031	0.016	0.516	12.375
85	5.25	162520.469	-2.563	9.703	232.875
86	5.50	162523.266	2.797	8.859	212.625
87	5.75	162521.531	-1.734	1.484	35.625
88	6.00	162522.422	0.891	0.609	14.625
89	6.25	162524.344	1.922	-3.875	-93.000
90	6.50	162525.828	1.484	-2.563	-61.500
91	6.75	162521.672	-4.156	-0.141	-3.375
92	7.00	162527.984	6.313	-5.563	-133.500
93	7.25	162527.078	-0.906	-2.734	-65.625
94	7.50	162529.094	2.016	-3.266	-78.375
95	7.75	162531.797	2.703	-10.125	-243.000
96	8.00	162527.359	-4.438	0.625	15.000
97	8.25	162534.594	7.234	-7.516	-180.375
98	8.50	162530.594	-4.000	-1.500	-36.000
99	8.75	162533.266	2.672	-1.469	-35.250
100	9.00	162530.719	-2.547	-3.359	-80.625
101	9.25	162533.844	3.125	0.750	18.000
102	9.50	162539.109	5.266	-8.516	-204.375
103	9.75	162541.422	2.313	-8.156	-195.750
104	10.00	162541.469	0.047	-10.750	-258.000

# MEASURED MASS - TYPE A TEST

D.C. COOK - Unit 2, May 12, 1992

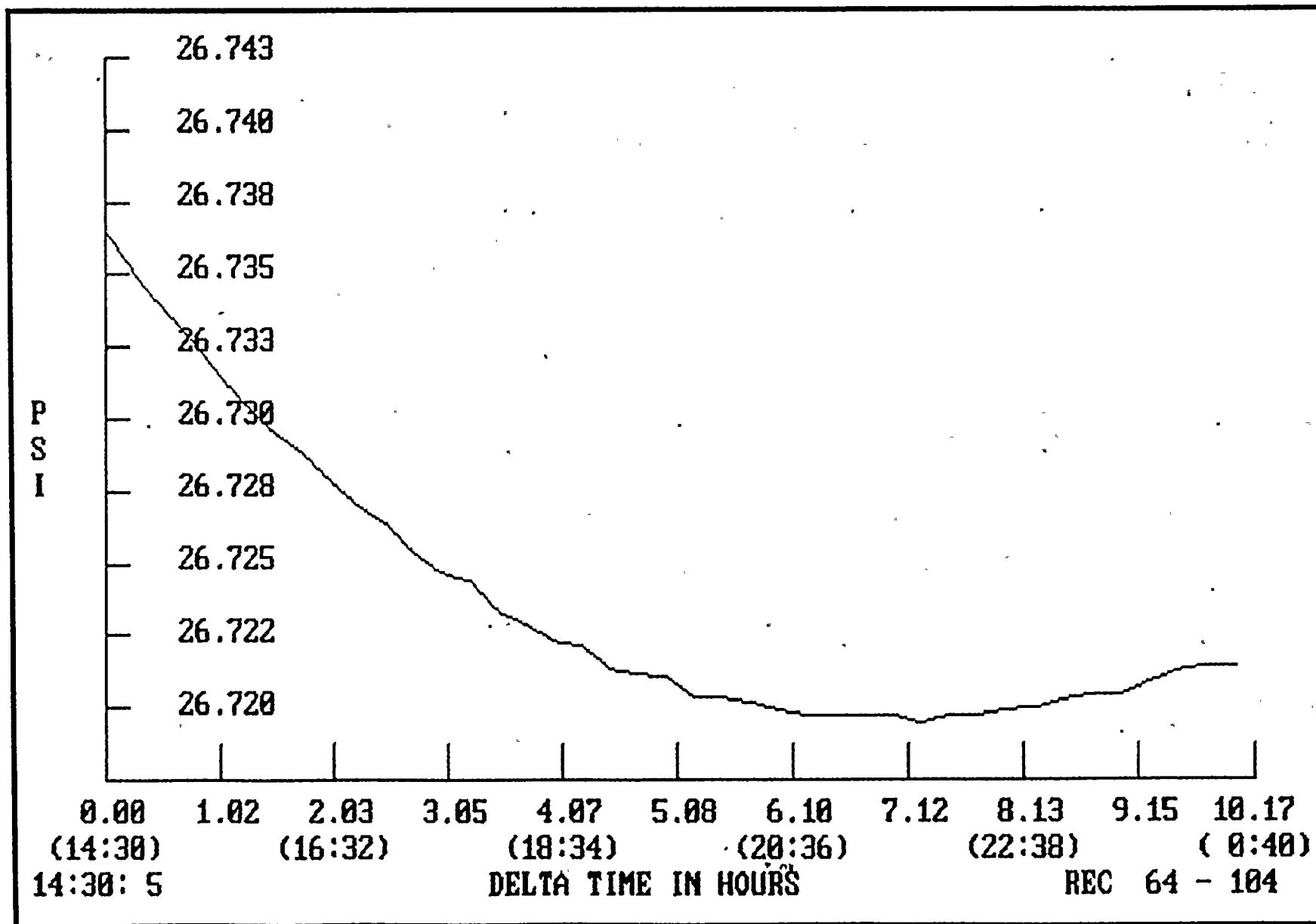


Attachment 5F



# AVERAGE PRESSURE - TYPE A TEST

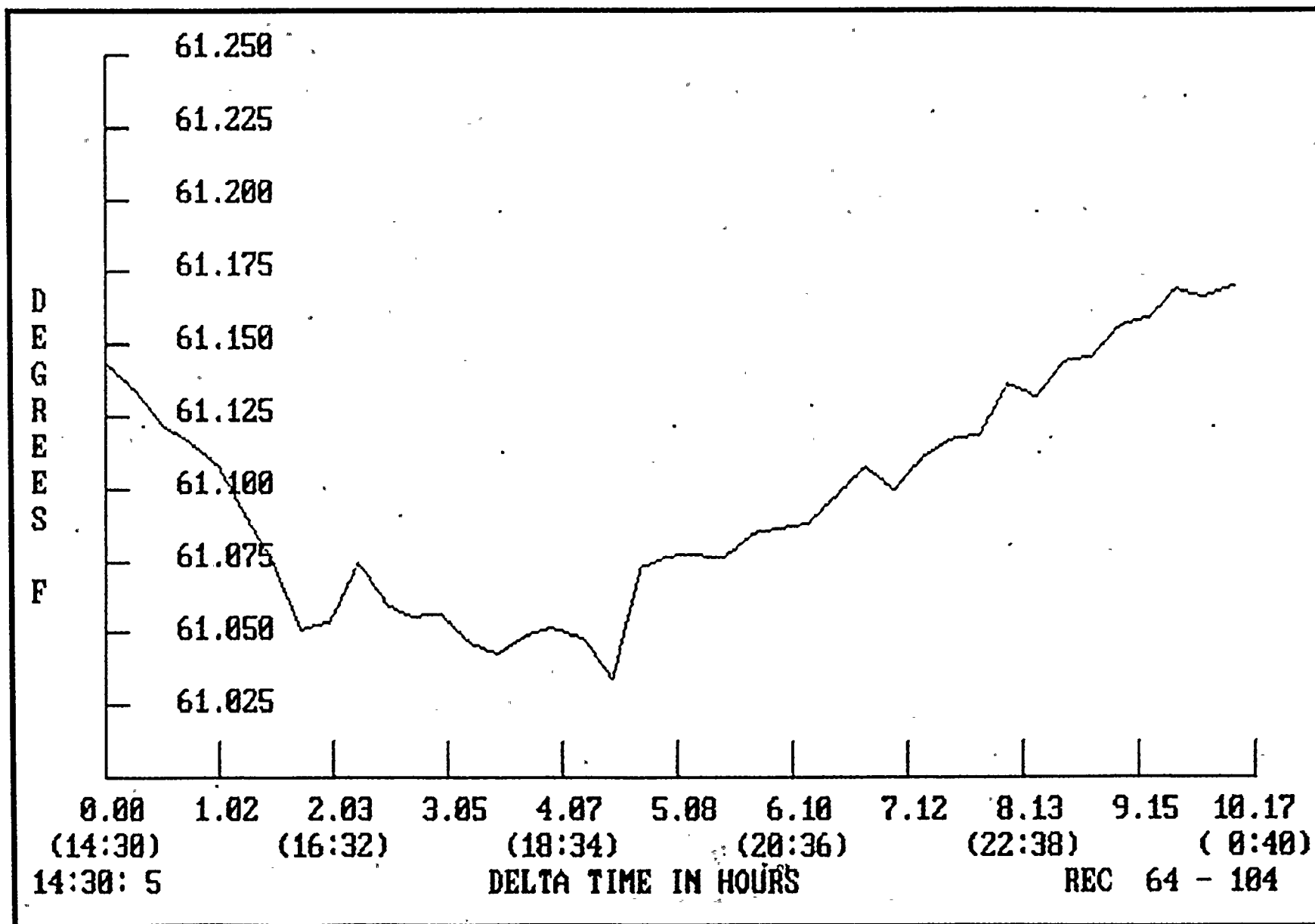
D.C. COOK - Unit 2, May 12, 1992



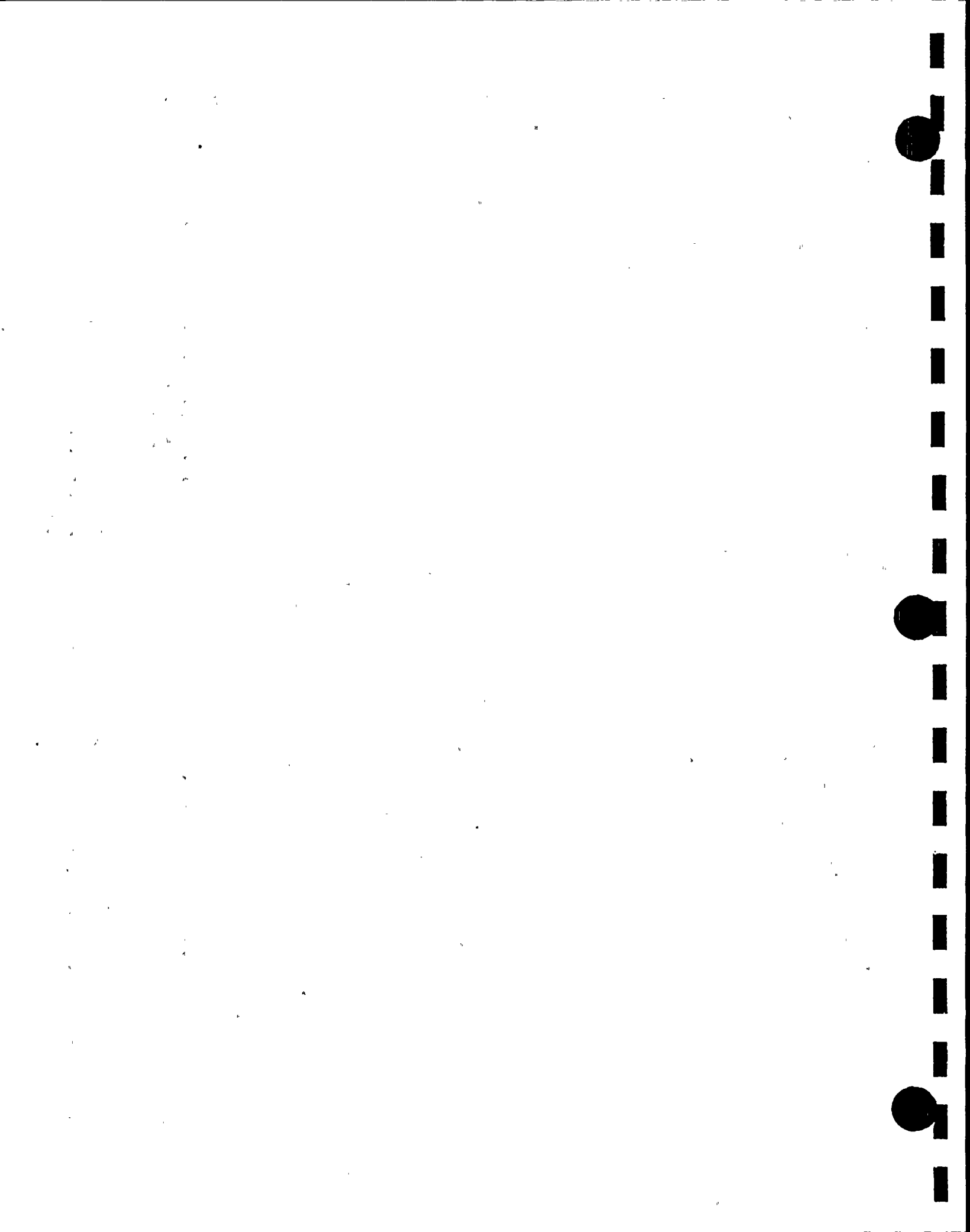
Attachment 5G

# AVERAGE TEMPERATURE - TYPE A TEST

D.C. COOK - Unit 2, May 12, 1992

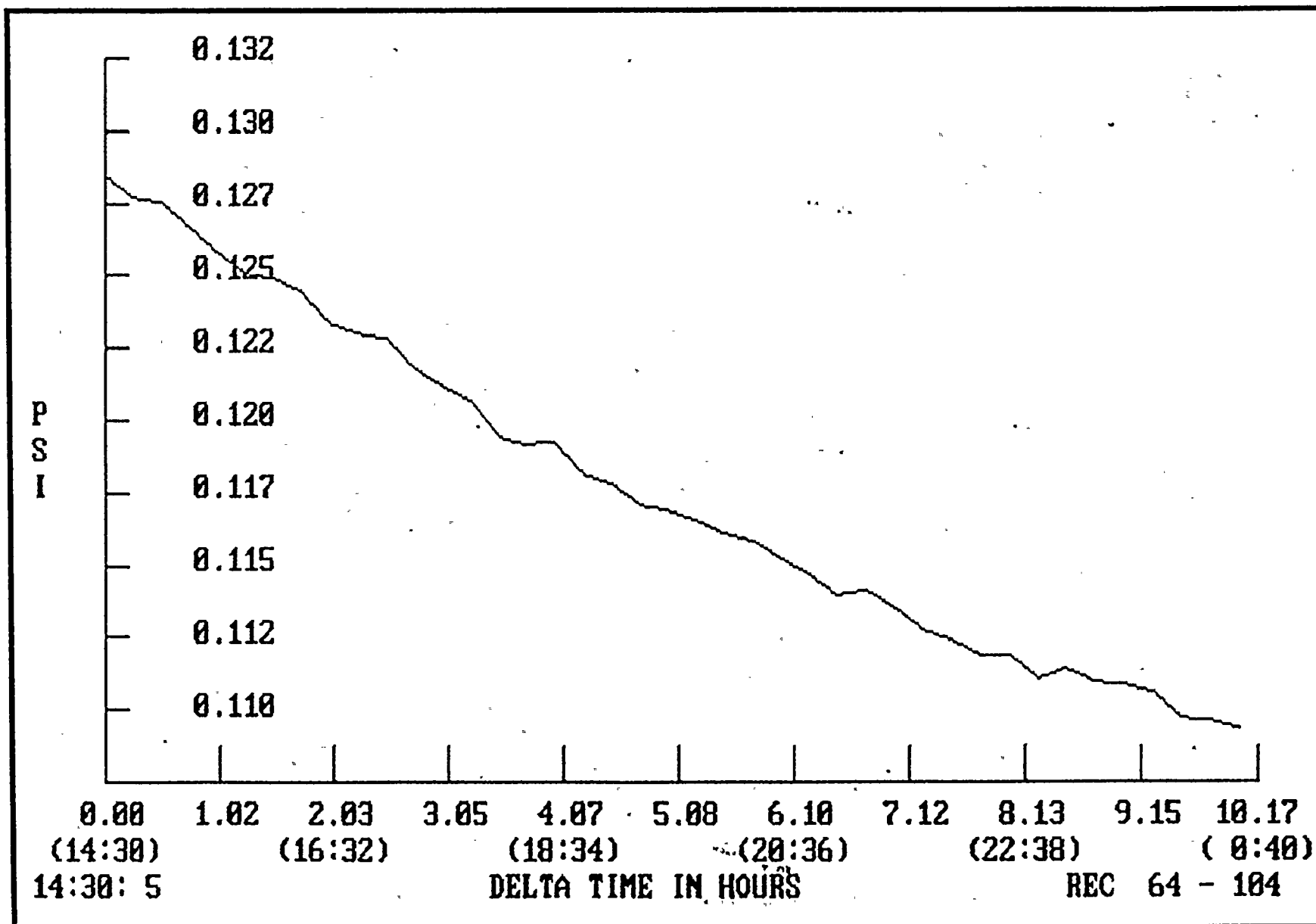


Attachment 5H



# AVERAGE VAPOR PRESSURE - TYPE A TEST

D.C. COOK - Unit 2, May 12, 1992



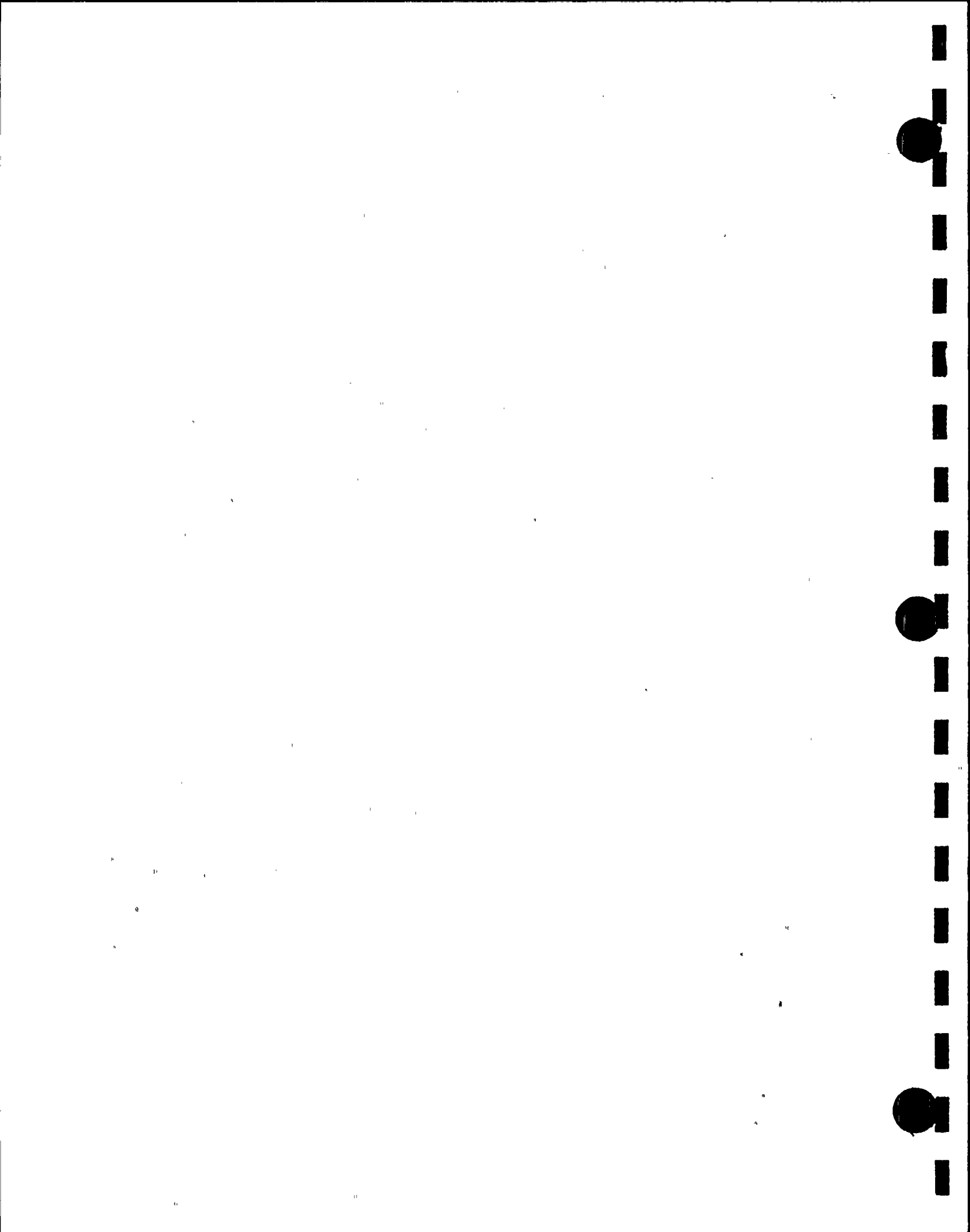
\*\*\*\*\*  
DATE - 06-05-1992

## ENVIRONMENT LISTING

\*\*\*\*\*  
TIME - 14:22:05

REC NUM	DATE	TIME	TEMP	VAPOR PRESSURE	CORRECT. PRESSURE	RELATIVE HUMIDITY	AIR DENSITY	PSIA/HR VARIANCE
64	11	1430	520.814	0.1285	26.6080	48.15	0.1379	0.00000
65	11	1445	520.805	0.1277	26.6073	47.88	0.1379	-0.00272
66	11	1500	520.792	0.1276	26.6063	47.85	0.1379	-0.00397
67	11	1515	520.787	0.1268	26.6061	47.56	0.1379	-0.00085
68	11	1530	520.779	0.1258	26.6058	47.22	0.1379	-0.00134
69	11	1545	520.761	0.1251	26.6054	46.97	0.1379	-0.00133
70	11	1600	520.743	0.1249	26.6046	46.94	0.1379	-0.00336
71	11	1615	520.721	0.1245	26.6044	46.82	0.1379	-0.00089
72	11	1630	520.724	0.1234	26.6045	46.40	0.1379	0.00035
73	11	1645	520.745	0.1231	26.6040	46.24	0.1379	-0.00198
74	11	1700	520.730	0.1229	26.6035	46.19	0.1379	-0.00186
75	11	1715	520.725	0.1219	26.6035	45.84	0.1379	0.00011
76	11	1730	520.727	0.1213	26.6035	45.60	0.1379	-0.00033
77	11	1745	520.717	0.1207	26.6037	45.39	0.1379	0.00090
78	11	1800	520.713	0.1195	26.6039	44.94	0.1379	0.00095
79	11	1815	520.720	0.1192	26.6037	44.82	0.1379	-0.00092
80	11	1830	520.722	0.1193	26.6031	44.86	0.1379	-0.00249
81	11	1845	520.718	0.1182	26.6039	44.46	0.1379	0.00350
82	11	1900	520.704	0.1179	26.6035	44.35	0.1379	-0.00171
83	11	1915	520.743	0.1171	26.6040	44.02	0.1379	0.00204
84	11	1930	520.746	0.1169	26.6042	43.92	0.1379	0.00066
85	11	1945	520.747	0.1166	26.6038	43.79	0.1379	-0.00149
86	11	2000	520.746	0.1161	26.6042	43.63	0.1379	0.00172
87	11	2015	520.755	0.1158	26.6044	43.51	0.1379	0.00061
88	11	2030	520.757	0.1153	26.6046	43.29	0.1379	0.00089
89	11	2045	520.758	0.1147	26.6050	43.08	0.1379	0.00159
90	11	2100	520.768	0.1140	26.6058	42.78	0.1379	0.00305
91	11	2115	520.778	0.1142	26.6056	42.84	0.1379	-0.00081
92	11	2130	520.770	0.1135	26.6062	42.62	0.1379	0.00249
93	11	2145	520.781	0.1128	26.6066	42.33	0.1379	0.00169
94	11	2200	520.787	0.1125	26.6073	42.19	0.1379	0.00256
95	11	2215	520.789	0.1119	26.6078	41.98	0.1379	0.00220
96	11	2230	520.807	0.1119	26.6080	41.95	0.1379	0.00066
97	11	2245	520.802	0.1111	26.6089	41.65	0.1379	0.00381
98	11	2300	520.814	0.1114	26.6089	41.76	0.1379	-0.00016
99	11	2315	520.816	0.1110	26.6094	41.61	0.1379	0.00211
100	11	2330	520.826	0.1109	26.6096	41.55	0.1379	0.00052
101	11	2345	520.829	0.1107	26.6102	41.46	0.1379	0.00256
102	12	0	520.839	0.1098	26.6116	41.10	0.1379	0.00547
103	12	15	520.836	0.1097	26.6118	41.06	0.1379	0.00095
104	12	30	520.840	0.1094	26.6120	40.98	0.1379	0.00089





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## ENVIRONMENT LISTING

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DATE - 06-05-1992

ZONE - 1

TIME - 14:22:08

REC NUM	DATE	TIME	TEMP	VAPOR PRESSURE	CORRECT. PRESSURE	RELATIVE HUMIDITY	AIR DENSITY	PSIA/HR VARIANCE
64	11	1430	526.732	0.1532	26.5833	46.67	0.1362	0.00000
65	11	1445	526.701	0.1530	26.5820	46.67	0.1362	-0.00539
66	11	1500	526.675	0.1529	26.5811	46.67	0.1362	-0.00334
67	11	1515	526.658	0.1520	26.5810	46.43	0.1362	-0.00054
68	11	1530	526.639	0.1518	26.5797	46.41	0.1362	-0.00540
69	11	1545	526.615	0.1507	26.5798	46.10	0.1362	0.00067
70	11	1600	526.600	0.1512	26.5783	46.28	0.1362	-0.00611
71	11	1615	526.575	0.1504	26.5786	46.08	0.1362	0.00114
72	11	1630	526.541	0.1502	26.5778	46.05	0.1362	-0.00293
73	11	1645	526.535	0.1490	26.5780	45.70	0.1362	0.00074
74	11	1700	526.507	0.1493	26.5772	45.84	0.1362	-0.00321
75	11	1715	526.493	0.1486	26.5769	45.66	0.1363	-0.00138
76	11	1730	526.473	0.1479	26.5771	45.48	0.1363	0.00069
77	11	1745	526.464	0.1476	26.5769	45.38	0.1363	-0.00048
78	11	1800	526.438	0.1464	26.5771	45.07	0.1363	0.00050
79	11	1815	526.433	0.1459	26.5771	44.91	0.1363	0.00026
80	11	1830	526.422	0.1462	26.5763	45.02	0.1363	-0.00317
81	11	1845	526.405	0.1448	26.5777	44.61	0.1363	0.00557
82	11	1900	526.388	0.1445	26.5770	44.55	0.1363	-0.00291
83	11	1915	526.382	0.1439	26.5776	44.39	0.1363	0.00230
84	11	1930	526.373	0.1437	26.5778	44.33	0.1363	0.00089
85	11	1945	526.360	0.1437	26.5768	44.36	0.1363	-0.00402
86	11	2000	526.348	0.1426	26.5779	44.04	0.1363	0.00426
87	11	2015	526.350	0.1424	26.5781	43.97	0.1363	0.00085
88	11	2030	526.338	0.1421	26.5779	43.89	0.1363	-0.00063
89	11	2045	526.331	0.1413	26.5787	43.66	0.1363	0.00311
90	11	2100	526.325	0.1402	26.5798	43.32	0.1363	0.00449
91	11	2115	526.327	0.1405	26.5795	43.42	0.1363	-0.00137
92	11	2130	526.306	0.1400	26.5800	43.29	0.1363	0.00214
93	11	2145	526.302	0.1390	26.5805	42.99	0.1363	0.00194
94	11	2200	526.304	0.1388	26.5812	42.91	0.1363	0.00304
95	11	2215	526.295	0.1377	26.5823	42.60	0.1363	0.00420
96	11	2230	526.302	0.1381	26.5819	42.70	0.1363	-0.00157
97	11	2245	526.287	0.1371	26.5829	42.42	0.1363	0.00402
98	11	2300	526.292	0.1373	26.5832	42.49	0.1363	0.00102
99	11	2315	526.288	0.1372	26.5833	42.46	0.1363	0.00040
100	11	2330	526.290	0.1370	26.5835	42.37	0.1363	0.00111
101	11	2345	526.277	0.1367	26.5843	42.31	0.1363	0.00307
102	12	0	526.283	0.1353	26.5862	41.88	0.1364	0.00746
103	12	15	526.277	0.1349	26.5866	41.75	0.1364	0.00169
104	12	30	526.275	0.1348	26.5867	41.72	0.1364	0.00050



## Attachment 5J

\*\*\*\*\*  
DATE - 06-05-1992ENVIRONMENT LISTING  
ZONE - 2\*\*\*\*\*  
TIME - 14:22:10

REC NUM	DATE	TIME	TEMP	VAPOR PRESSURE	CORRECT. PRESSURE	RELATIVE HUMIDITY	AIR DENSITY	PSIA/HR VARIANCE
64	11	1430	529.398	0.1459	26.5921	40.57	0.1356	0.00000
65	11	1445	529.409	0.1443	26.5922	40.09	0.1356	0.00063
66	11	1500	529.395	0.1433	26.5917	39.83	0.1356	-0.00197
67	11	1515	529.394	0.1419	26.5921	39.45	0.1356	0.00151
68	11	1530	529.378	0.1399	26.5931	38.93	0.1356	0.00380
69	11	1545	529.346	0.1390	26.5930	38.71	0.1356	-0.00026
70	11	1600	529.291	0.1375	26.5935	38.37	0.1356	0.00187
71	11	1615	529.241	0.1362	26.5938	38.07	0.1356	0.00125
72	11	1630	529.290	0.1353	26.5938	37.74	0.1356	-0.00017
73	11	1645	529.354	0.1335	26.5950	37.17	0.1356	0.00502
74	11	1700	529.338	0.1326	26.5949	36.95	0.1356	-0.00048
75	11	1715	529.323	0.1316	26.5949	36.68	0.1356	0.00014
76	11	1730	529.339	0.1302	26.5953	36.28	0.1356	0.00146
77	11	1745	529.304	0.1293	26.5962	36.06	0.1356	0.00375
78	11	1800	529.316	0.1276	26.5968	35.59	0.1356	0.00251
79	11	1815	529.318	0.1267	26.5973	35.32	0.1356	0.00181
80	11	1830	529.320	0.1262	26.5973	35.17	0.1356	0.00007
81	11	1845	529.313	0.1250	26.5980	34.86	0.1356	0.00265
82	11	1900	529.276	0.1242	26.5983	34.67	0.1356	0.00140
83	11	1915	529.383	0.1232	26.5988	34.28	0.1356	0.00178
84	11	1930	529.379	0.1220	26.6000	33.95	0.1356	0.00473
85	11	1945	529.380	0.1212	26.6003	33.72	0.1356	0.00128
86	11	2000	529.376	0.1206	26.6009	33.56	0.1356	0.00234
87	11	2015	529.366	0.1195	26.6015	33.27	0.1356	0.00244
88	11	2030	529.367	0.1195	26.6015	33.25	0.1356	0.00016
89	11	2045	529.353	0.1183	26.6022	32.93	0.1356	0.00292
90	11	2100	529.362	0.1174	26.6031	32.69	0.1356	0.00327
91	11	2115	529.353	0.1171	26.6034	32.61	0.1357	0.00130
92	11	2130	529.337	0.1162	26.6043	32.38	0.1357	0.00352
93	11	2145	529.352	0.1158	26.6047	32.24	0.1357	0.00183
94	11	2200	529.335	0.1146	26.6059	31.94	0.1357	0.00461
95	11	2215	529.330	0.1142	26.6063	31.81	0.1357	0.00181
96	11	2230	529.333	0.1134	26.6076	31.61	0.1357	0.00494
97	11	2245	529.315	0.1123	26.6092	31.31	0.1357	0.00646
98	11	2300	529.307	0.1123	26.6092	31.33	0.1357	-0.00005
99	11	2315	529.282	0.1114	26.6101	31.09	0.1357	0.00373
100	11	2330	529.278	0.1110	26.6105	30.99	0.1357	0.00153
101	11	2345	529.276	0.1105	26.6115	30.85	0.1357	0.00401
102	12	0	529.263	0.1098	26.6127	30.68	0.1357	0.00465
103	12	15	529.223	0.1098	26.6127	30.71	0.1357	0.00014
104	12	30	529.210	0.1094	26.6131	30.60	0.1357	0.00185



## Attachment 5J

\*\*\*\*\*  
DATE - 06-05-1992ENVIRONMENT LISTING  
ZONE - 3\*\*\*\*\*  
TIME - 14:22:13

REC NUM	DATE	TIME	TEMP	VAPOR PRESSURE	CORRECT. PRESSURE	RELATIVE HUMIDITY	AIR DENSITY	PSIA/HR VARIANCE
64	11	1430	477.550	0.0397	26.6933	87.28	0.1509	0.00000
65	11	1445	477.585	0.0391	26.6929	85.64	0.1509	-0.00129
66	11	1500	477.631	0.0396	26.6914	86.66	0.1508	-0.00622
67	11	1515	477.664	0.0396	26.6904	86.51	0.1508	-0.00397
68	11	1530	477.723	0.0386	26.6904	84.07	0.1508	0.00003
69	11	1545	477.759	0.0388	26.6887	84.42	0.1508	-0.00690
70	11	1600	477.811	0.0388	26.6877	84.09	0.1508	-0.00379
71	11	1615	477.863	0.0397	26.6863	85.84	0.1507	-0.00562
72	11	1630	477.915	0.0377	26.6873	81.25	0.1507	0.00408
73	11	1645	477.952	0.0397	26.6843	85.46	0.1507	-0.01208
74	11	1700	478.000	0.0394	26.6841	84.71	0.1507	-0.00096
75	11	1715	478.057	0.0384	26.6846	82.20	0.1507	0.00224
76	11	1730	478.112	0.0386	26.6834	82.39	0.1506	-0.00475
77	11	1745	478.158	0.0382	26.6833	81.36	0.1506	-0.00041
78	11	1800	478.210	0.0374	26.6831	79.62	0.1506	-0.00111
79	11	1815	478.274	0.0382	26.6818	81.01	0.1506	-0.00509
80	11	1830	478.335	0.0386	26.6809	81.58	0.1506	-0.00353
81	11	1845	478.391	0.0383	26.6807	80.70	0.1505	-0.00076
82	11	1900	478.435	0.0383	26.6802	80.61	0.1505	-0.00216
83	11	1915	478.514	0.0378	26.6802	79.15	0.1505	0.000021
84	11	1930	478.583	0.0384	26.6791	80.18	0.1505	-0.00448
85	11	1945	478.645	0.0381	26.6794	79.25	0.1504	0.00133
86	11	2000	478.695	0.0388	26.6787	80.59	0.1504	-0.00294
87	11	2015	478.771	0.0392	26.6783	81.05	0.1504	-0.00145
88	11	2030	478.833	0.0379	26.6791	78.26	0.1504	0.00293
89	11	2045	478.905	0.0385	26.6785	79.08	0.1504	-0.00212
90	11	2100	478.981	0.0385	26.6785	78.81	0.1503	-0.00004
91	11	2115	479.063	0.0389	26.6781	79.36	0.1503	-0.00170
92	11	2130	479.129	0.0385	26.6785	78.38	0.1503	0.00143
93	11	2145	479.193	0.0382	26.6788	77.44	0.1503	0.00139
94	11	2200	479.266	0.0385	26.6785	77.80	0.1502	-0.00126
95	11	2215	479.331	0.0387	26.6783	78.06	0.1502	-0.00099
96	11	2230	479.419	0.0388	26.6782	77.80	0.1502	-0.00014
97	11	2245	479.490	0.0388	26.6782	77.50	0.1502	0.00006
98	11	2300	479.576	0.0394	26.6776	78.51	0.1501	-0.00266
99	11	2315	479.657	0.0392	26.6788	77.77	0.1501	0.00486
100	11	2330	479.737	0.0396	26.6784	78.21	0.1501	-0.00149
101	11	2345	479.813	0.0398	26.6782	78.35	0.1501	-0.00086
102	12	0	479.891	0.0395	26.6785	77.41	0.1501	0.00131
103	12	15	479.980	0.0398	26.6792	77.79	0.1500	0.00256
104	12	30	480.048	0.0398	26.6792	77.38	0.1500	0.00032



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## SENSOR LIST

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RECORD NUMBER - 64

DATE - 05/11

TIME - 14:30: 5

## PRESSURES

1 -	26.74100	2 -	26.73500
3 -	26.73500	4 -	26.73100
5 -	26.73800	6 -	26.73500

AVG PRESSURE 26.73647

## RTD/S

1	71.464	2	69.330	3	66.052	4	66.179
5	65.544	6	67.340	7	67.275	8	67.459
9	65.448	10	65.562	11	66.206	12	65.610
13	74.267	14	66.297	15	17.881	16	18.107
17	18.064	18	20.246	19	17.419	20	18.342
21	16.793	22	73.121	23	70.544	24	69.814
25	71.140	26	70.870	27	62.473	28	66.141
29	66.903	30	67.834	31	63.030	32	64.713
33	61.316	34	69.559	35	70.567	36	70.962
37	70.136	38	68.576	39	69.809	40	67.667
41	69.689	42	71.532	43	70.310	44	68.150
45	69.636	46	68.490	INACT	92.357	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.144

## DEW CELLS

1	46.228	2	45.326	3	45.931	4	11.423
5	16.604	6	46.599	7	44.367	INACT	0.000
INACT	14.414	INACT	67.898	INACT	14.438	INACT	67.387
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 41.406

AMBIENT PRESS - 14.41

VAPOR PRESS - .1284676

DRY PRESSURE - 26.608

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 65

DATE - 05/11

TIME - 14:45: 5

## PRESSURES

1 -	26.74000	2 -	26.73300
3 -	26.73400	4 -	26.73000
5 -	26.73700	6 -	26.73300

AVG PRESSURE 26.73503

## RTD/S

1	71.444	2	69.287	3	66.009	4	66.221
5	65.512	6	67.297	7	67.243	8	67.425
9	65.416	10	65.519	11	66.163	12	65.578
13	74.332	14	66.309	15	17.935	16	18.215
17	18.268	18	20.300	19	17.430	20	18.365
21	16.773	22	73.087	23	70.512	24	69.793
25	71.183	26	70.836	27	62.396	28	66.121
29	66.826	30	67.811	31	62.987	32	65.362
33	60.979	34	69.582	35	70.415	36	70.973
37	70.102	38	68.531	39	69.744	40	67.613
41	69.668	42	71.500	43	70.289	44	68.118
45	69.602	46	68.468	INACT	85.965	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.135

## DEW CELLS

1	46.312	2	45.128	3	45.753	4	11.502
5	16.075	6	46.165	7	44.093	INACT	0.000
INACT	14.414	INACT	67.985	INACT	14.437	INACT	67.483
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 41.255

AMBIENT PRESS - 14.41

VAPOR PRESS - .1277165

DRY PRESSURE - 26.60732

FLOWS - 0 0

TOTAL FLOW 0

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## SENSOR LIST

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RECORD NUMBER - 66

DATE - 05/11

TIME - 15: 0: 5

## PRESSURES

1 -	26.73800	2 -	26.73200
3 -	26.73300	4 -	26.72900
5 -	26.73600	6 -	26.73200

AVG PRESSURE 26.73389

## RTD/S

1	71.433	2	69.264	3	65.977	4	66.167
5	65.489	6	67.275	7	67.209	8	67.405
9	65.405	10	65.519	11	66.129	12	65.578
13	74.278	14	66.243	15	18.031	16	18.353
17	18.344	18	20.450	19	17.461	20	18.385
21	16.773	22	73.130	23	70.512	24	69.814
25	71.129	26	70.816	27	62.419	28	66.098
29	66.795	30	67.791	31	62.996	32	65.350
33	61.088	34	69.527	35	70.490	36	70.985
37	70.028	38	68.500	39	69.732	40	67.582
41	69.634	42	71.512	43	70.267	44	68.084
45	69.559	46	68.502	INACT	85.342	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.122

## DEW CELLS

1	46.317	2	45.064	3	45.665	4	11.420
5	16.515	6	45.904	7	43.924	INACT	0.000
INACT	14.413	INACT	68.081	INACT	14.439	INACT	67.579
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 41.223

AMBIENT PRESS - 14.41

VAPOR PRESS - .1275612

DRY PRESSURE - 26.60633

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 67

DATE - 05/11

TIME - 15:15: 5

## PRESSURES

1 -	26.73700	2 -	26.73100
3 -	26.73200	4 -	26.72800
5 -	26.73500	6 -	26.73100

AVG PRESSURE 26.73289

## RTD/S

1	71.410	2	69.232	3	65.932	4	66.136
5	65.458	6	67.232	7	67.189	8	67.383
9	65.405	10	65.519	11	66.129	12	65.556
13	74.344	14	66.309	15	18.181	16	18.461
17	18.387	18	20.547	19	17.461	20	18.407
21	16.761	22	73.110	23	70.501	24	69.793
25	71.118	26	70.816	27	62.439	28	66.087
29	66.752	30	67.780	31	62.975	32	65.244
33	61.250	34	69.539	35	70.501	36	70.994
37	70.102	38	68.488	39	69.723	40	67.559
41	69.614	42	71.489	43	70.244	44	68.053
45	69.516	46	68.426	INACT	84.759	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.117

## DEW CELLS

1	46.228	2	44.864	3	45.399	4	12.476
5	16.075	6	45.726	7	43.657	INACT	0.000
INACT	14.412	INACT	68.166	INACT	14.437	INACT	67.643
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 41.063

AMBIENT PRESS - 14.41

VAPOR PRESS - .1267725

DRY PRESSURE - 26.60611

FLOWS - 0 0

TOTAL FLOW 0

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## SENSOR LIST

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RECORD NUMBER - 68

DATE - 05/11

TIME - 15:30: 5

## PRESSURES

1 -	26.73600	2 -	26.73000
3 -	26.73100	4 -	26.72700
5 -	26.73300	6 -	26.73000

AVG PRESSURE 26.73160

## RTD/S

1	71.390	2	69.201	3	65.955	4	66.113
5	65.435	6	67.200	7	67.155	8	67.362
9	65.385	10	65.498	11	66.098	12	65.513
13	74.421	14	66.266	15	18.289	16	18.623
17	18.548	18	20.677	19	17.495	20	18.443
21	16.766	22	73.123	23	70.494	24	69.787
25	71.111	26	70.809	27	62.424	28	66.071
29	66.711	30	67.762	31	62.980	32	65.249
33	61.472	34	69.509	35	70.463	36	70.955
37	70.021	38	68.450	39	69.674	40	67.523
41	69.576	42	71.484	43	70.219	44	68.048
45	69.489	46	68.432	INACT	88.862	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.109

## DEW CELLS

1	46.319	2	44.627	3	45.231	4	11.321
5	15.812	6	45.371	7	43.294	INACT	0.000
INACT	14.412	INACT	68.262	INACT	14.436	INACT	67.706
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 40.870

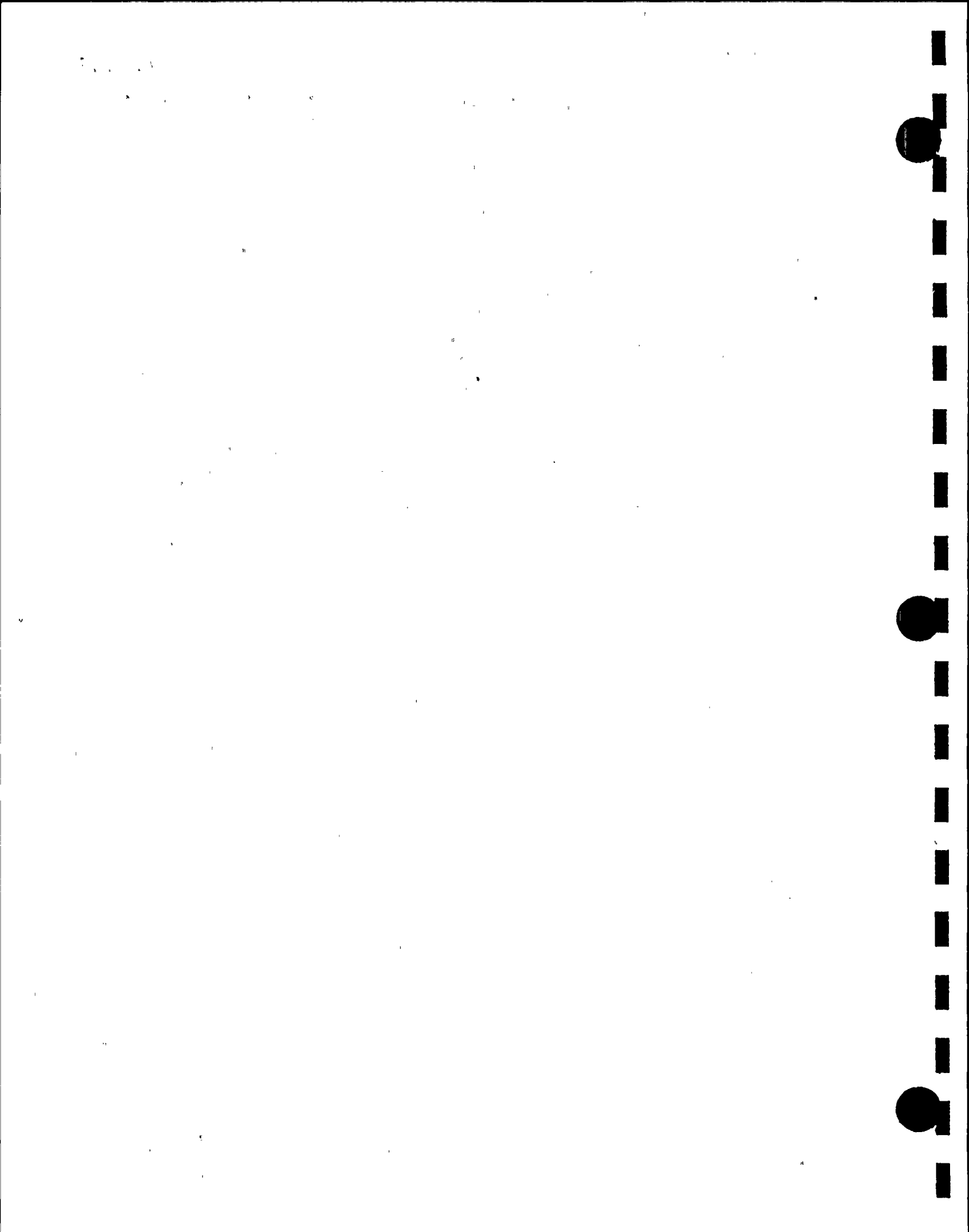
AMBIENT PRESS - 14.41

VAPOR PRESS - .1258249

DRY PRESSURE - 26.60578

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 69

DATE - 05/11

TIME - 15:45: 5

## PRESSURES

1 -	26.73500	2 -	26.72900
3 -	26.72900	4 -	26.72600
5 -	26.73200	6 -	26.72900

AVG PRESSURE 26.73054

## RTD/S

1	71.367	2	69.178	3	65.923	4	66.102
5	65.403	6	67.166	7	67.134	8	67.328
9	65.351	10	65.508	11	66.086	12	65.535
13	74.518	14	66.309	15	18.376	16	18.762
17	18.665	18	20.751	19	17.495	20	18.454
21	16.777	22	73.080	23	70.472	24	69.787
25	71.102	26	70.787	27	62.401	28	66.060
29	66.691	30	67.762	31	62.914	32	64.849
33	61.103	34	69.500	35	70.429	36	70.880
37	70.032	38	68.429	39	69.662	40	67.505
41	69.560	42	71.500	43	70.169	44	68.019
45	69.450	46	68.417	INACT	88.896	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.091

## DEW CELLS

1	46.051	2	44.611	3	45.051	4	11.948
5	15.721	6	45.100	7	43.137	INACT	0.000
INACT	14.412	INACT	68.338	INACT	14.436	INACT	67.824
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 40.719

AMBIENT PRESS - 14.41

VAPOR PRESS - .1250891

DRY PRESSURE - 26.60545

FLOWS - 0 0

TOTAL FLOW 0





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## SENSOR LIST

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RECORD NUMBER - 70

DATE - 05/11

TIME - 16: 0: 5

## PRESSURES

1 -	26.73400	2 -	26.72800
3 -	26.72800	4 -	26.72500
5 -	26.73100	6 -	26.72800

AVG PRESSURE 26.72953

## RTD/S

1	71.344	2	69.155	3	65.889	4	66.113
5	65.381	6	67.146	7	67.100	8	67.308
9	65.362	10	65.498	11	66.098	12	65.492
13	74.452	14	66.331	15	18.558	16	18.923
17	18.730	18	20.892	19	17.506	20	18.488
21	16.777	22	73.103	23	70.494	24	69.755
25	71.111	26	70.787	27	62.401	28	66.039
29	66.625	30	67.731	31	62.903	32	64.112
33	61.135	34	69.509	35	70.419	36	70.889
37	70.009	38	68.418	39	69.640	40	67.462
41	69.526	42	71.478	43	70.136	44	67.998
45	69.430	46	68.394	INACT	90.915	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.073

## DEW CELLS

1	46.315	2	44.357	3	44.965	4	11.420
5	15.901	6	44.751	7	42.874	INACT	0.000
INACT	14.412	INACT	68.434	INACT	14.437	INACT	67.932
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 40.685

AMBIENT PRESS - 14.41

VAPOR PRESS - .1249274

DRY PRESSURE - 26.60461

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 71

DATE - 05/11

TIME - 16:15: 5

## PRESSURES

1 -	26.73300	2 -	26.72700
3 -	26.72800	4 -	26.72400
5 -	26.73100	6 -	26.72700

AVG PRESSURE 26.72889

## RTD/S

1	71.335	2	69.135	3	65.869	4	66.081
5	65.361	6	67.112	7	67.080	8	67.297
9	65.351	10	65.476	11	66.043	12	65.501
13	74.421	14	66.243	15	18.719	16	19.084
17	18.934	18	20.977	19	17.515	20	18.497
21	16.788	22	73.060	23	70.494	24	69.755
25	71.079	26	70.787	27	62.424	28	66.039
29	66.571	30	67.731	31	62.883	32	63.703
33	61.146	34	69.455	35	70.365	36	70.869
37	69.967	38	68.375	39	69.619	40	67.435
41	69.510	42	71.464	43	70.088	44	67.971
45	69.403	46	68.432	INACT	91.285	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.051

## DEW CELLS

1	46.231	2	44.096	3	44.786	4	12.381
5	16.167	6	44.571	7	42.611	INACT	0.000
INACT	14.412	INACT	68.514	INACT	14.437	INACT	68.034
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 40.597

AMBIENT PRESS - 14.41

VAPOR PRESS - .1245026

DRY PRESSURE - 26.60439

FLOWS - 0 0

TOTAL FLOW 0

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## SENSOR LIST

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RECORD NUMBER - 72

DATE - 05/11

TIME - 16:30: 5

## PRESSURES

1 -	26.73200	2 -	26.72600
3 -	26.72700	4 -	26.72300
5 -	26.73000	6 -	26.72600

AVG PRESSURE 26.72789

## RTD/S

1	71.317	2	69.096	3	65.851	4	66.009
5	65.331	6	67.073	7	67.042	8	67.267
9	65.335	10	65.426	11	66.048	12	65.486
13	74.500	14	66.248	15	18.800	16	19.219
17	19.165	18	21.154	19	17.522	20	18.519
21	16.788	22	73.103	23	70.537	24	69.775
25	71.102	26	70.778	27	62.381	28	66.005
29	66.559	30	67.720	31	62.871	32	64.480
33	60.963	34	69.446	35	70.365	36	70.858
37	69.998	38	68.364	39	69.608	40	67.430
41	69.494	42	71.414	43	70.038	44	67.955
45	69.376	46	68.417	INACT	92.366	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.054

## DEW CELLS

1	46.227	2	44.079	3	44.607	4	11.945
5	14.845	6	44.390	7	42.427	INACT	0.000
INACT	14.411	INACT	68.599	INACT	14.436	INACT	68.119
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 40.371

AMBIENT PRESS - 14.41

VAPOR PRESS - .1234144

DRY PRESSURE - 26.60447

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 73

DATE - 05/11

TIME - 16:45: 5

## PRESSURES

1 -	26.73100	2 -	26.72600
3 -	26.72600	4 -	26.72200
5 -	26.72900	6 -	26.72500

AVG PRESSURE 26.72704

## RTD/S

1	71.306	2	69.074	3	65.828	4	66.020
5	65.311	6	67.051	7	67.019	8	67.247
9	65.324	10	65.437	11	66.016	12	65.497
13	74.566	14	66.248	15	18.950	16	19.380
17	19.176	18	21.251	19	17.533	20	18.531
21	16.788	22	73.123	23	70.506	24	69.755
25	71.091	26	70.766	27	62.424	28	65.994
29	66.550	30	67.720	31	62.883	32	65.529
33	61.406	34	69.489	35	70.386	36	70.901
37	69.967	38	68.330	39	69.585	40	67.414
41	69.478	42	71.453	43	70.022	44	67.939
45	69.360	46	68.390	INACT	90.238	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.075

## DEW CELLS

1	46.051	2	43.830	3	44.346	4	12.384
5	16.164	6	44.132	7	42.072	INACT	0.000
INACT	14.406	INACT	68.700	INACT	14.430	INACT	68.220
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 40.297

AMBIENT PRESS - 14.41

VAPOR PRESS - .12306

DRY PRESSURE - 26.60398

FLOWS - 0 0

TOTAL FLOW 0

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## SENSOR LIST

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RECORD NUMBER - 74

DATE - 05/11

TIME - 17: 0: 5

## PRESSURES

1 -	26.73000	2 -	26.72500
3 -	26.72500	4 -	26.72200
5 -	26.72800	6 -	26.72500

AVG PRESSURE 26.72639

## RTD/S

1	71.295	2	69.062	3	65.828	4	65.986
5	65.288	6	67.019	7	66.996	8	67.224
9	65.301	10	65.426	11	66.016	12	65.463
13	74.534	14	66.162	15	19.015	16	19.531
17	19.434	18	21.327	19	17.542	20	18.557
21	16.782	22	73.098	23	70.478	24	69.739
25	71.109	26	70.773	27	62.430	28	65.980
29	66.534	30	67.693	31	62.899	32	65.590
33	61.164	34	69.408	35	70.381	36	70.876
37	69.985	38	68.294	39	69.549	40	67.387
41	69.440	42	71.469	43	69.984	44	67.921
45	69.321	46	68.394	INACT	88.320	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.060

## DEW CELLS

1	46.228	2	43.653	3	44.257	4	12.135
5	16.079	6	43.952	7	41.902	INACT	0.000
INACT	14.410	INACT	68.798	INACT	14.436	INACT	68.295
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 40.259

AMBIENT PRESS - 14.41

VAPOR PRESS - .1228751

DRY PRESSURE - 26.60351

FLOWS - 0 0

TOTAL FLOW 0





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## SENSOR LIST

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RECORD NUMBER - 75

DATE - 05/11

TIME - 17:15: 5

## PRESSURES

1 -	26.72900	2 -	26.72400
3 -	26.72500	4 -	26.72100
5 -	26.72700	6 -	26.72400

AVG PRESSURE 26.72546

## RTD/S

1	71.285	2	69.042	3	65.839	4	65.966
5	65.277	6	67.008	7	66.976	8	67.213
9	65.292	10	65.406	11	66.025	12	65.431
13	74.620	14	66.151	15	19.197	16	19.715
17	19.607	18	21.424	19	17.564	20	18.569
21	16.793	22	73.098	23	70.467	24	69.728
25	71.097	26	70.750	27	62.396	28	65.980
29	66.480	30	67.673	31	62.878	32	65.599
33	61.045	34	69.430	35	70.306	36	70.821
37	69.919	38	68.294	39	69.538	40	67.342
41	69.417	42	71.414	43	69.964	44	67.910
45	69.310	46	68.394	INACT	85.653	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.055

## DEW CELLS

1	46.135	2	43.541	3	44.079	4	11.947
5	15.373	6	43.603	7	41.727	INACT	0.000
INACT	14.410	INACT	68.883	INACT	14.436	INACT	68.380
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 40.057

AMBIENT PRESS - 14.41

VAPOR PRESS - .1219153

DRY PRESSURE - 26.60354

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 76

DATE - 05/11

TIME - 17:30: 5

## PRESSURES

1 -	26.72800	2 -	26.72300
3 -	26.72400	4 -	26.72000
5 -	26.72700	6 -	26.72300

AVG PRESSURE 26.72474

## RTD/S

1 71.285	2 69.019	3 65.774	4 65.912
5 65.245	6 66.987	7 66.965	8 67.193
9 65.269	10 65.394	11 65.994	12 65.443
13 74.620	14 66.173	15 19.304	16 19.865
17 19.714	18 21.585	19 17.587	20 18.611
21 16.793	22 73.098	23 70.467	24 69.771
25 71.097	26 70.750	27 62.342	28 65.958
29 66.469	30 67.693	31 62.889	32 65.622
33 61.173	34 69.430	35 70.404	36 70.876
37 69.951	38 68.294	39 69.529	40 67.342
41 69.417	42 71.457	43 69.918	44 67.890
45 69.287	46 68.372	INACT 85.534	INACT 0.000
INACT 0.000	INACT 0.000		

AVG RTD 61.057

## DEW CELLS

1 46.051	2 43.368	3 43.909	4 11.856
5 15.551	6 43.341	7 41.455	INACT 0.000
INACT 14.408	INACT 68.952	INACT 14.435	INACT 68.472
INACT 0.000	INACT 0.000	INACT 0.000	

AVG DEW CELL 39.923

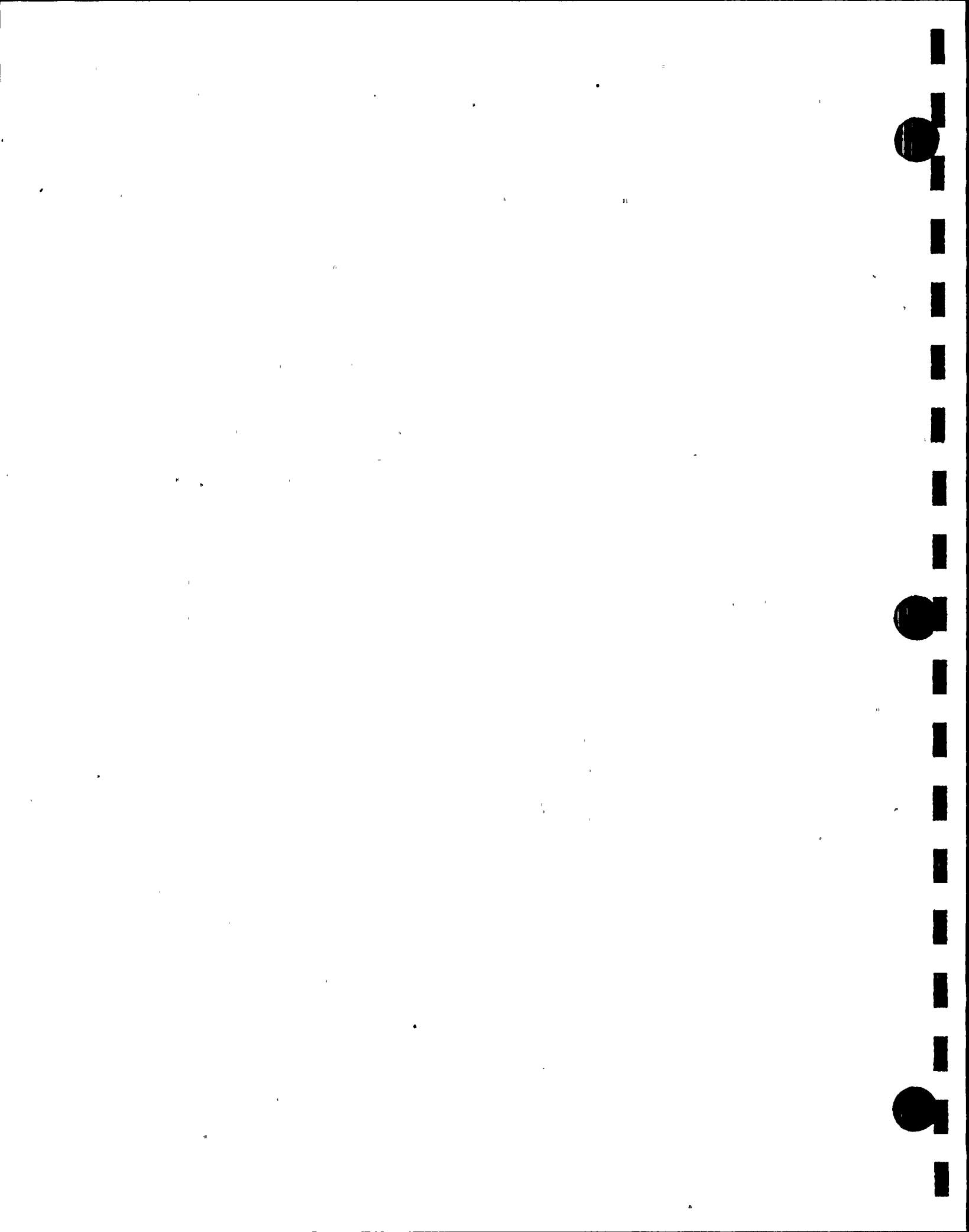
AMBIENT PRESS - 14.41

VAPOR PRESS - .1212793

DRY PRESSURE - 26.60346

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 77

DATE - 05/11

TIME - 17:45: 5

## PRESSURES

1 -	26.72800	2 -	26.72300
3 -	26.72300	4 -	26.72000
5 -	26.72600	6 -	26.72300

AVG PRESSURE 26.72439

## RTD/S

1	71.274	2	69.008	3	65.785	4	65.966
5	65.234	6	66.953	7	66.942	8	67.170
9	65.269	10	65.383	11	65.982	12	65.452
13	74.566	14	66.173	15	19.412	16	19.995
17	19.822	18	21.661	19	17.629	20	18.631
21	16.793	22	73.098	23	70.467	24	69.739
25	71.109	26	70.730	27	62.279	28	65.947
29	66.426	30	67.684	31	62.878	32	65.611
33	60.979	34	69.399	35	70.295	36	70.799
37	69.939	38	68.294	39	69.495	40	67.294
41	69.392	42	71.496	43	69.905	44	67.874
45	69.271	46	68.368	INACT	83.259	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.047

## DEW CELLS

1	46.051	2	43.220	3	43.729	4	12.650
5	14.928	6	43.069	7	41.284	INACT	0.000
INACT	14.408	INACT	69.032	INACT	14.434	INACT	68.530
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 39.800

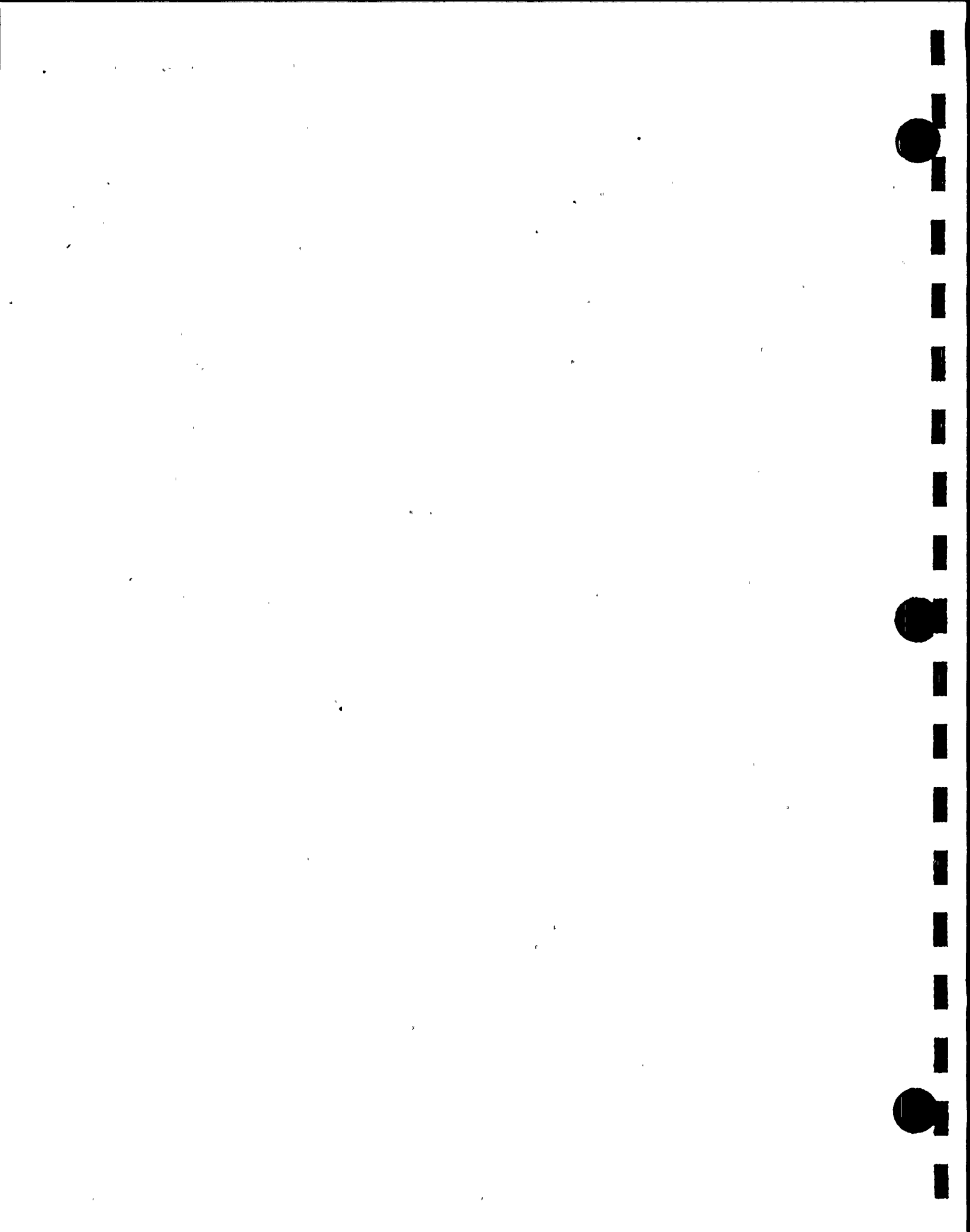
AMBIENT PRESS - 14.41

VAPOR PRESS - .1207025

DRY PRESSURE - 26.60368

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 78

DATE - 05/11

TIME - 18: 0: 5

## PRESSURES

1 -	26.72700	2 -	26.72200
3 -	26.72200	4 -	26.71900
5 -	26.72500	6 -	26.72200

AVG PRESSURE 26.72339

## RTD/S

1	71.263	2	68.988	3	65.765	4	65.912
5	65.214	6	66.942	7	66.933	8	67.159
9	65.258	10	65.372	11	65.994	12	65.420
13	74.674	14	66.053	15	19.585	16	20.165
17	19.952	18	21.682	19	17.661	20	18.658
21	16.797	22	73.103	23	70.451	24	69.744
25	71.111	26	70.744	27	62.218	28	65.931
29	66.419	30	67.688	31	62.860	32	65.701
33	61.006	34	69.403	35	70.288	36	70.837
37	69.924	38	68.278	39	69.488	40	67.245
41	69.363	42	71.512	43	69.898	44	67.856
45	69.244	46	68.352	INACT	85.776	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.043

## DEW CELLS

1	45.873	2	43.026	3	43.466	4	11.948
5	14.669	6	42.898	7	40.926	INACT	0.000
INACT	14.409	INACT	69.106	INACT	14.435	INACT	68.584
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 39.536

AMBIENT PRESS - 14.41

VAPOR PRESS - .1194669

DRY PRESSURE - 26.60392

FLOWS - 0 0

TOTAL FLOW 0





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## SENSOR LIST

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RECORD NUMBER - 79

DATE - 05/11

TIME - 18:15: 5

## PRESSURES

1 -	26.72600	2 -	26.72200
3 -	26.72200	4 -	26.71800
5 -	26.72500	6 -	26.72100

AVG PRESSURE 26.72289

## RTD/S

1	71.263	2	68.976	3	65.753	4	65.900
5	65.191	6	66.922	7	66.910	8	67.150
9	65.258	10	65.352	11	65.982	12	65.409
13	74.686	14	66.162	15	19.704	16	20.318
17	20.156	18	21.832	19	17.694	20	18.685
21	16.815	22	73.130	23	70.424	24	69.728
25	71.086	26	70.739	27	62.225	28	65.935
29	66.406	30	67.684	31	62.856	32	65.708
33	60.905	34	69.408	35	70.295	36	70.876
37	69.930	38	68.273	39	69.441	40	67.245
41	69.374	42	71.500	43	69.855	44	67.835
45	69.244	46	68.341	INACT	81.470	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.050

## DEW CELLS

1	45.787	2	42.855	3	43.377	4	12.735
5	14.930	6	42.632	7	40.747	INACT	0.000
INACT	14.407	INACT	69.200	INACT	14.434	INACT	68.644
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 39.478

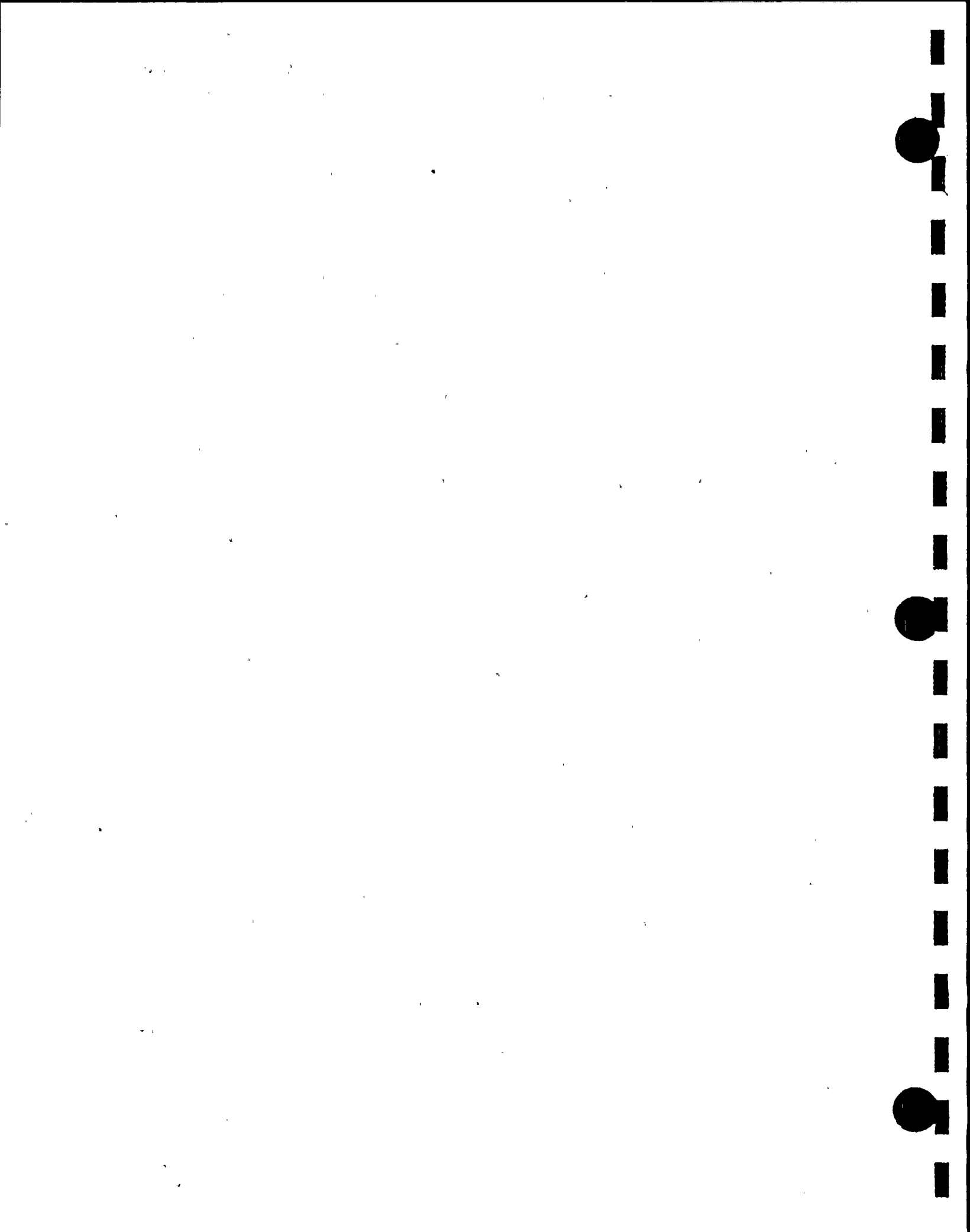
AMBIENT PRESS - 14.41

VAPOR PRESS - .1191957

DRY PRESSURE - 26.60369

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 80

DATE - 05/11

TIME - 18:30: 5

## PRESSURES

1 -	26.72600	2 -	26.72100
3 -	26.72100	4 -	26.71800
5 -	26.72400	6 -	26.72100

AVG PRESSURE 26.72239

## RTD/S

1	71.252	2	68.954	3	65.753	4	65.835
5	65.202	6	66.899	7	66.899	8	67.150
9	65.238	10	65.352	11	65.939	12	65.397
13	74.717	14	66.151	15	19.854	16	20.457
17	20.349	18	21.982	19	17.726	20	18.712
21	16.820	22	73.123	23	70.463	24	69.732
25	71.156	26	70.755	27	62.195	28	65.919
29	66.365	30	67.688	31	62.840	32	65.789
33	61.124	34	69.392	35	70.257	36	70.846
37	69.967	38	68.255	39	69.456	40	67.240
41	69.370	42	71.518	43	69.850	44	67.820
45	69.228	46	68.325	INACT	81.284	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.052

## DEW CELLS

1	45.968	2	42.772	3	43.203	4	12.997
5	15.108	6	42.454	7	40.655	INACT	0.000
INACT	14.407	INACT	69.247	INACT	14.433	INACT	68.680
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 39.504

AMBIENT PRESS - 14.41

VAPOR PRESS - .1193172

DRY PRESSURE - 26.60307

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 81

DATE - 05/11

TIME - 18:45: 5

## PRESSURES

1 -	26.72500	2 -	26.72100
3 -	26.72100	4 -	26.71700
5 -	26.72400	6 -	26.72100

AVG PRESSURE 26.72217

## RTD/S

1	71.263	2	68.943	3	65.720	4	65.846
5	65.168	6	66.879	7	66.879	8	67.116
9	65.226	10	65.329	11	65.951	12	65.397
13	74.751	14	66.119	15	19.961	16	20.607
17	20.553	18	22.177	19	17.748	20	18.723
21	16.820	22	73.114	23	70.526	24	69.721
25	71.177	26	70.712	27	62.143	28	65.908
29	66.333	30	67.666	31	62.828	32	65.778
33	61.135	34	69.326	35	70.322	36	70.803
37	69.955	38	68.224	39	69.425	40	67.233
41	69.343	42	71.478	43	69.812	44	67.813
45	69.213	46	68.330	INACT	79.603	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.048

## DEW CELLS

1	45.696	2	42.488	3	43.029	4	12.647
5	15.020	6	42.272	7	40.406	INACT	0.000
INACT	14.408	INACT	69.289	INACT	14.434	INACT	68.691
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 39.269

AMBIENT PRESS - 14.41

VAPOR PRESS - .1182246

DRY PRESSURE - 26.60394

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 82

DATE - 05/11

TIME - 19: 0: 5

## PRESSURES

1 -	26.72500	2 -	26.72000
3 -	26.72000	4 -	26.71700
5 -	26.72300	6 -	26.72000

AVG PRESSURE 26.72139

## RTD/S

1	71.263	2	68.933	3	65.720	4	65.857
5	65.148	6	66.856	7	66.867	8	67.104
9	65.204	10	65.340	11	65.951	12	65.355
13	74.760	14	66.096	15	20.103	16	20.746
17	20.641	18	22.242	19	17.768	20	18.739
21	16.835	22	73.119	23	70.445	24	69.714
25	71.149	26	70.705	27	62.125	28	65.881
29	66.315	30	67.648	31	62.801	32	65.502
33	60.783	34	69.319	35	70.272	36	70.788
37	69.885	38	68.228	39	69.395	40	67.159
41	69.343	42	71.478	43	69.789	44	67.792
45	69.190	46	68.319	INACT	82.681	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.034

## DEW CELLS

1	45.698	2	42.431	3	42.855	4	13.355
5	14.757	6	42.107	7	40.228	INACT	0.000
INACT	14.408	INACT	69.321	INACT	14.434	INACT	68.700
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 39.191

AMBIENT PRESS - 14.41

VAPOR PRESS - .1178686

DRY PRESSURE - 26.60352

FLOWS - 0 0

TOTAL FLOW 0





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## SENSOR LIST

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RECORD NUMBER - 83

DATE - 05/11

TIME - 19:15: 5

## PRESSURES

1 -	26.72400	2 -	26.72000
3 -	26.72000	4 -	26.71600
5 -	26.72300	6 -	26.72000

AVG PRESSURE 26.72117

## RTD/S

1	71.263	2	68.922	3	65.699	4	65.857
5	65.148	6	66.845	7	66.845	8	67.084
9	65.192	10	65.329	11	65.928	12	65.366
13	74.783	14	66.096	15	20.264	16	20.919
17	20.834	18	22.500	19	17.791	20	18.782
21	16.858	22	73.130	23	70.447	24	69.750
25	71.152	26	70.730	27	62.116	28	65.892
29	66.317	30	67.662	31	62.813	32	67.114
33	60.970	34	69.387	35	70.349	36	70.821
37	69.919	38	68.251	39	69.409	40	67.159
41	69.320	42	71.446	43	69.778	44	67.781
45	69.167	46	68.287	INACT	82.184	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.073

## DEW CELLS

1	45.610	2	42.251	3	42.766	4	13.000
5	14.487	6	41.828	7	40.047	INACT	0.000
INACT	14.406	INACT	69.363	INACT	14.434	INACT	68.733
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 39.034

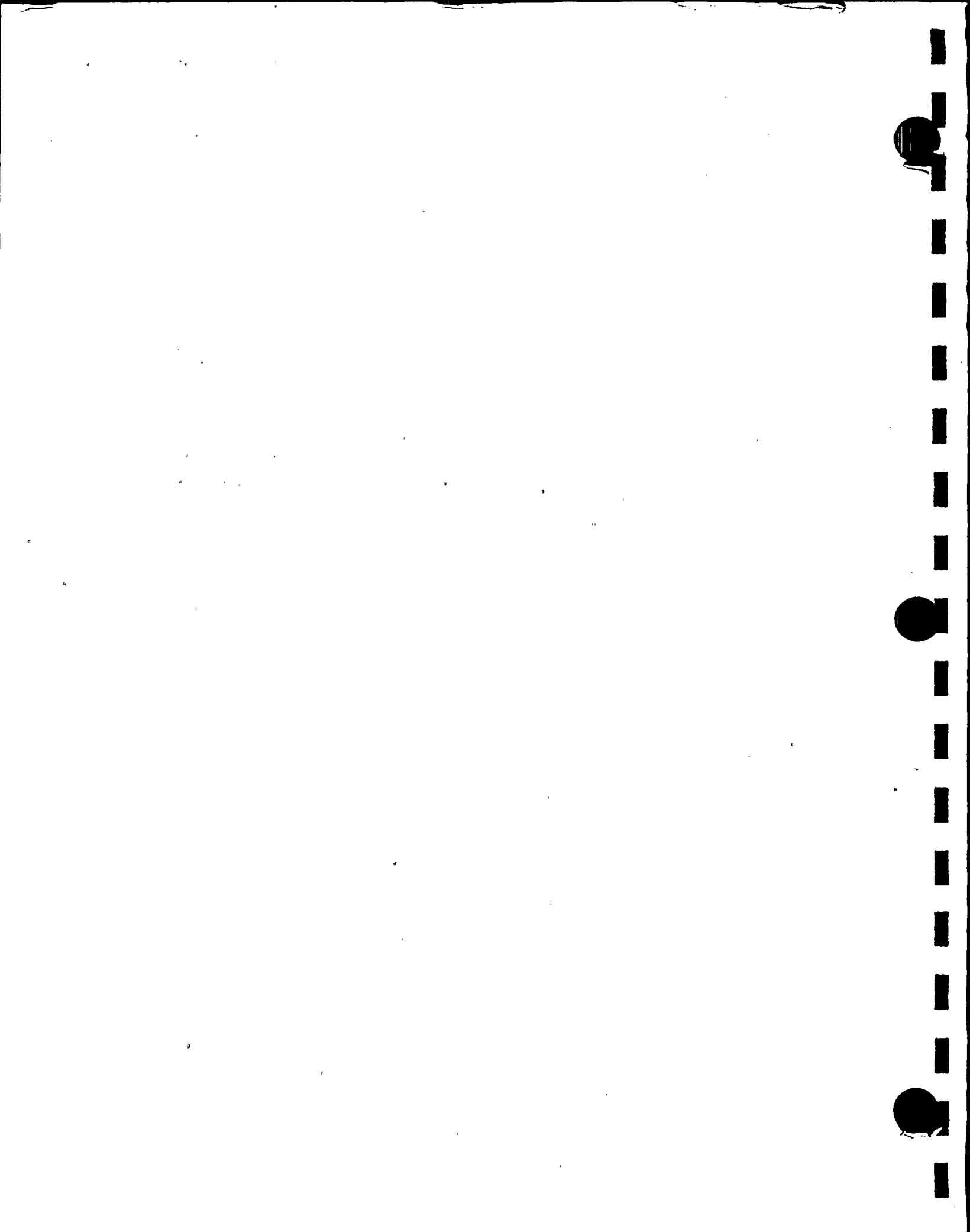
AMBIENT PRESS - 14.41

VAPOR PRESS - .1171444

DRY PRESSURE - 26.60403

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 84

DATE - 05/11

TIME - 19:30: 5

## PRESSURES

1	-	26.72400	2	-	26.72000
3	-	26.71900	4	-	26.71600
5	-	26.72300	6	-	26.72000

AVG PRESSURE 26.72110

## RTD/S

1	71.274	2	68.911	3	65.710	4	65.803
5	65.114	6	66.813	7	66.836	8	67.095
9	65.192	10	65.297	11	65.917	12	65.355
13	74.849	14	66.139	15	20.349	16	21.080
17	21.136	18	22.747	19	17.811	20	18.797
21	16.874	22	73.123	23	70.463	24	69.732
25	71.122	26	70.723	27	62.098	28	65.865
29	66.311	30	67.646	31	62.806	32	67.150
33	61.027	34	69.295	35	70.331	36	70.815
37	69.901	38	68.255	39	69.370	40	67.143
41	69.327	42	71.496	43	69.762	44	67.765
45	69.163	46	68.336	INACT	82.419	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.076

## DEW CELLS

1	45.698	2	42.073	3	42.500	4	13.263
5	14.845	6	41.661	7	39.784	INACT	0.000
INACT	14.407	INACT	69.406	INACT	14.433	INACT	68.764
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 38.982

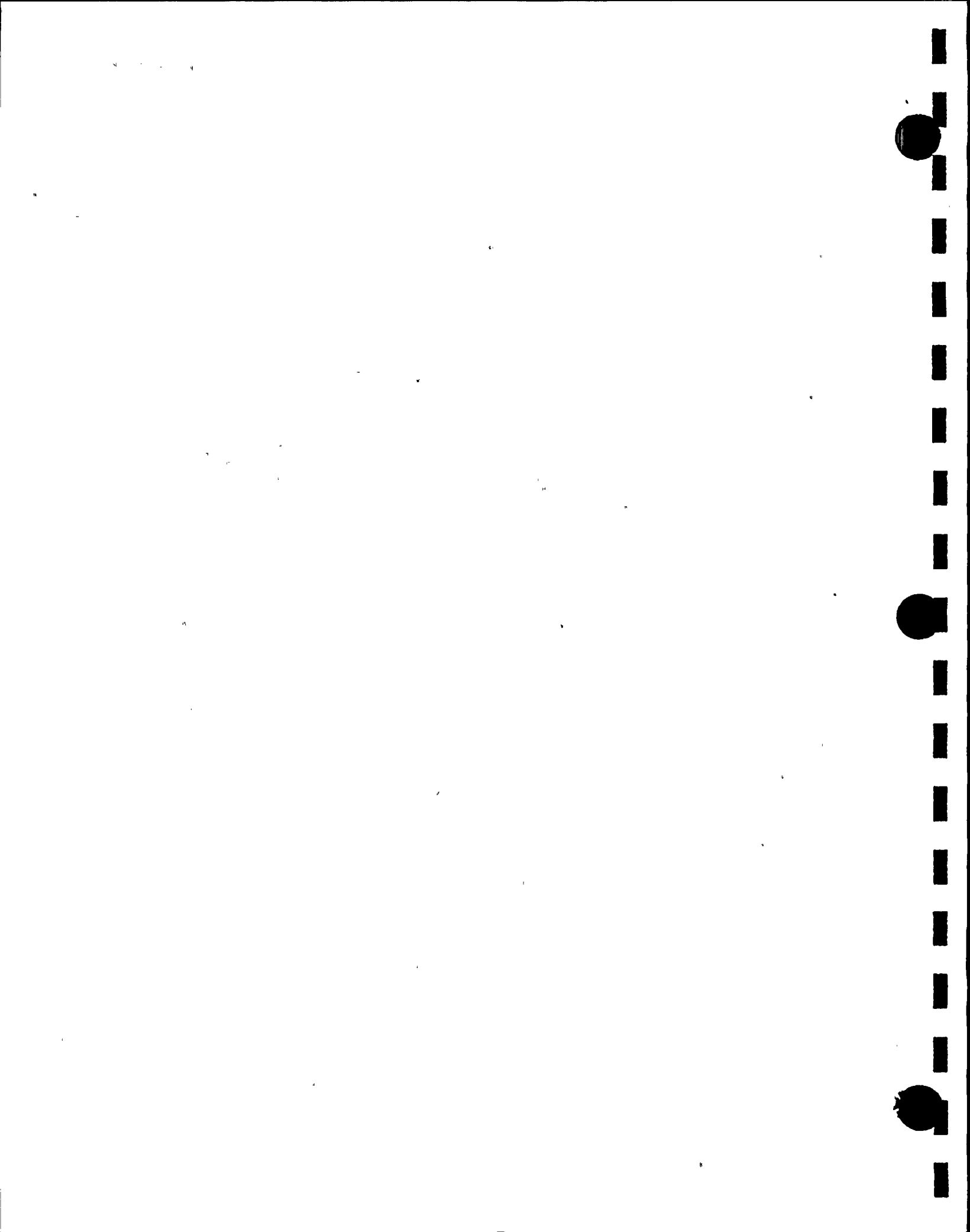
AMBIENT PRESS - 14.41

VAPOR PRESS - .1169095

DRY PRESSURE - 26.60419

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 85

DATE - 05/11

TIME - 19:45: 5

## PRESSURES

1 -	26.72400	2 -	26.71900
3 -	26.71900	4 -	26.71600
5 -	26.72200	6 -	26.71900

AVG PRESSURE 26.72039

## RTD/S

1	71.274	2	68.899	3	65.665	4	65.835
5	65.105	6	66.813	7	66.824	8	67.084
9	65.192	10	65.275	11	65.939	12	65.355
13	74.923	14	66.019	15	20.522	16	21.242
17	21.244	18	22.920	19	17.833	20	18.831
21	16.885	22	73.134	23	70.429	24	69.744
25	71.145	26	70.723	27	62.067	28	65.876
29	66.290	30	67.635	31	62.785	32	67.108
33	61.103	34	69.358	35	70.331	36	70.837
37	69.858	38	68.212	39	69.370	40	67.125
41	69.300	42	71.500	43	69.724	44	67.750
45	69.147	46	68.276	INACT	81.295	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.077

## DEW CELLS

1	45.787	2	41.890	3	42.415	4	13.082
5	14.671	6	41.490	7	39.610	INACT	0.000
INACT	14.408	INACT	69.439	INACT	14.435	INACT	68.764
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 38.908

AMBIENT PRESS - 14.41

VAPOR PRESS - .1165678

DRY PRESSURE - 26.60382

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 86

DATE - 05/11

TIME - 20: 0: 5

## PRESSURES

1 -	26.72400	2 -	26.71900
3 -	26.71900	4 -	26.71600
5 -	26.72200	6 -	26.71900

AVG PRESSURE 26.72039

## RTD/S

1	71.285	2	68.899	3	65.665	4	65.835
5	65.105	6	66.781	7	66.813	8	67.061
9	65.172	10	65.286	11	65.896	12	65.334
13	74.858	14	66.010	15	20.661	16	21.403
17	21.394	18	22.985	19	17.845	20	18.851
21	16.905	22	73.134	23	70.463	24	69.764
25	71.177	26	70.689	27	62.067	28	65.876
29	66.279	30	67.624	31	62.763	32	67.108
33	60.975	34	69.306	35	70.343	36	70.837
37	69.924	38	68.224	39	69.359	40	67.093
41	69.300	42	71.446	43	69.724	44	67.738
45	69.124	46	68.298	INACT	81.499	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.076

## DEW CELLS

1	45.613	2	41.716	3	42.149	4	13.355
5	15.108	6	41.218	7	39.514	INACT	0.000
INACT	14.407	INACT	69.459	INACT	14.434	INACT	68.798
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 38.813

AMBIENT PRESS - 14.41

VAPOR PRESS - .1161378

DRY PRESSURE - 26.60425

FLOWS - 0 0

TOTAL FLOW 0





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## SENSOR LIST

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RECORD NUMBER - 87

DATE - 05/11

TIME - 20:15:11

## PRESSURES

1	-	26.72300	2	-	26.71900
3	-	26.71900	4	-	26.71600
5	-	26.72200	6	-	26.71900

AVG PRESSURE 26.72024

## RTD/S

1	71.290	2	68.895	3	65.683	4	65.776
5	65.089	6	66.777	7	66.809	8	67.079
9	65.168	10	65.248	11	65.892	12	65.339
13	74.876	14	66.049	15	20.807	16	21.581
17	21.657	18	23.248	19	17.872	20	18.867
21	16.921	22	73.130	23	70.512	24	69.728
25	71.152	26	70.696	27	62.139	28	65.861
29	66.274	30	67.630	31	62.758	32	67.114
33	61.250	34	69.301	35	70.272	36	70.833
37	69.887	38	68.208	39	69.355	40	67.082
41	69.266	42	71.500	43	69.703	44	67.738
45	69.113	46	68.276	INACT	81.228	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.085

## DEW CELLS

1	45.607	2	41.625	3	42.064	4	13.794
5	15.196	6	41.123	7	39.249	INACT	0.000
INACT	14.408	INACT	69.493	INACT	14.434	INACT	68.807
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 38.746

AMBIENT PRESS - 14.41

VAPOR PRESS - .1158347

DRY PRESSURE - 26.6044

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 88

DATE - 05/11

TIME - 20:30:11

## PRESSURES

1 -	26.72300	2 -	26.71900
3 -	26.71900	4 -	26.71500
5 -	26.72200	6 -	26.71800

AVG PRESSURE 26.71989

## RTD/S

1	71.295	2	68.888	3	65.665	4	65.792
5	65.071	6	66.759	7	66.802	8	67.050
9	65.150	10	65.275	11	65.885	12	65.355
13	74.903	14	66.031	15	20.995	16	21.758
17	21.814	18	23.458	19	17.887	20	18.883
21	16.927	22	73.134	23	70.494	24	69.721
25	71.177	26	70.712	27	62.132	28	65.833
29	66.236	30	67.613	31	62.752	32	67.096
33	61.049	34	69.315	35	70.343	36	70.815
37	69.858	38	68.201	39	69.348	40	67.050
41	69.288	42	71.489	43	69.670	44	67.716
45	69.113	46	68.265	INACT	80.534	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.087

## DEW CELLS

1	45.610	2	41.368	3	41.978	4	13.706
5	14.314	6	41.037	7	39.255	INACT	0.000
INACT	14.407	INACT	69.513	INACT	14.434	INACT	68.829
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 38.619

AMBIENT PRESS - 14.41

VAPOR PRESS - .1152598

DRY PRESSURE - 26.60463

FLOWS - 0 0

TOTAL FLOW 0

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## SENSOR LIST

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RECORD NUMBER - 89

DATE - 05/11

TIME - 20:45:11

## PRESSURES

1 -	26.72300	2 -	26.71800
3 -	26.71900	4 -	26.71500
5 -	26.72200	6 -	26.71800

AVG PRESSURE 26.71974

## RTD/S

1	71.317	2	68.879	3	65.656	4	65.769
5	65.082	6	66.748	7	66.791	8	67.041
9	65.150	10	65.275	11	65.874	12	65.312
13	74.880	14	66.010	15	21.157	16	21.953
17	21.987	18	23.663	19	17.898	20	18.916
21	16.959	22	73.114	23	70.483	24	69.721
25	71.165	26	70.712	27	62.132	28	65.833
29	66.182	30	67.601	31	62.763	32	67.119
33	61.092	34	69.252	35	70.300	36	70.815
37	69.901	38	68.158	39	69.316	40	67.070
41	69.277	42	71.469	43	69.658	44	67.704
45	69.093	46	68.276	INACT	79.823	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.088

## DEW CELLS

1	45.524	2	41.197	3	41.709	4	14.244
5	14.491	6	40.781	7	38.988	INACT	0.000
INACT	14.408	INACT	69.504	INACT	14.434	INACT	68.798
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 38.498

AMBIENT PRESS - 14.41

VAPOR PRESS - .1147131

DRY PRESSURE - 26.60503

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 90

DATE - 05/11

TIME - 21: 0:11

## PRESSURES

1 -	26.72300	2 -	26.71800
3 -	26.71900	4 -	26.71500
5 -	26.72200	6 -	26.71800

AVG PRESSURE 26.71974

## RTD/S

1	71.317	2	68.888	3	65.645	4	65.749
5	65.071	6	66.736	7	66.770	8	67.041
9	65.138	10	65.263	11	65.862	12	65.323
13	74.978	14	66.065	15	21.361	16	22.135
17	22.276	18	23.835	19	17.919	20	18.936
21	16.981	22	73.123	23	70.506	24	69.744
25	71.156	26	70.689	27	62.098	28	65.822
29	66.213	30	67.581	31	62.743	32	67.087
33	60.941	34	69.315	35	70.288	36	70.783
37	69.881	38	68.181	39	69.293	40	67.050
41	69.277	42	71.478	43	69.649	44	67.695
45	69.093	46	68.256	INACT	78.661	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.098

## DEW CELLS

1	45.256	2	41.031	3	41.621	4	13.624
5	14.754	6	40.595	7	38.812	INACT	0.000
INACT	14.407	INACT	69.459	INACT	14.434	INACT	68.753
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 38.328

AMBIENT PRESS - 14.41

VAPOR PRESS - .1139503

DRY PRESSURE - 26.60579

FLOWS - 0 0

TOTAL FLOW 0

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## SENSOR LIST

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RECORD NUMBER - 91

DATE - 05/11

TIME - 21:15:11

## PRESSURES

1	-	26.72300	2	-	26.71800
3	-	26.71900	4	-	26.71500
5	-	26.72200	6	-	26.71800

AVG PRESSURE 26.71974

## RTD/S

1	71.360	2	68.922	3	65.645	4	65.749
5	65.082	6	66.716	7	66.770	8	67.030
9	65.150	10	65.232	11	65.885	12	65.312
13	75.032	14	66.065	15	21.522	16	22.330
17	22.534	18	24.159	19	17.952	20	18.959
21	16.981	22	73.134	23	70.517	24	69.701
25	71.145	26	70.712	27	62.132	28	65.811
29	66.204	30	67.570	31	62.752	32	66.990
33	60.769	34	69.261	35	70.277	36	70.783
37	69.869	38	68.158	39	69.293	40	67.039
41	69.277	42	71.489	43	69.627	44	67.695
45	69.070	46	68.256	INACT	78.180	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.108

## DEW CELLS

1	45.436	2	41.010	3	41.449	4	14.597
5	14.668	6	40.604	7	38.726	INACT	0.000
INACT	14.406	INACT	69.406	INACT	14.433	INACT	68.680
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 38.373

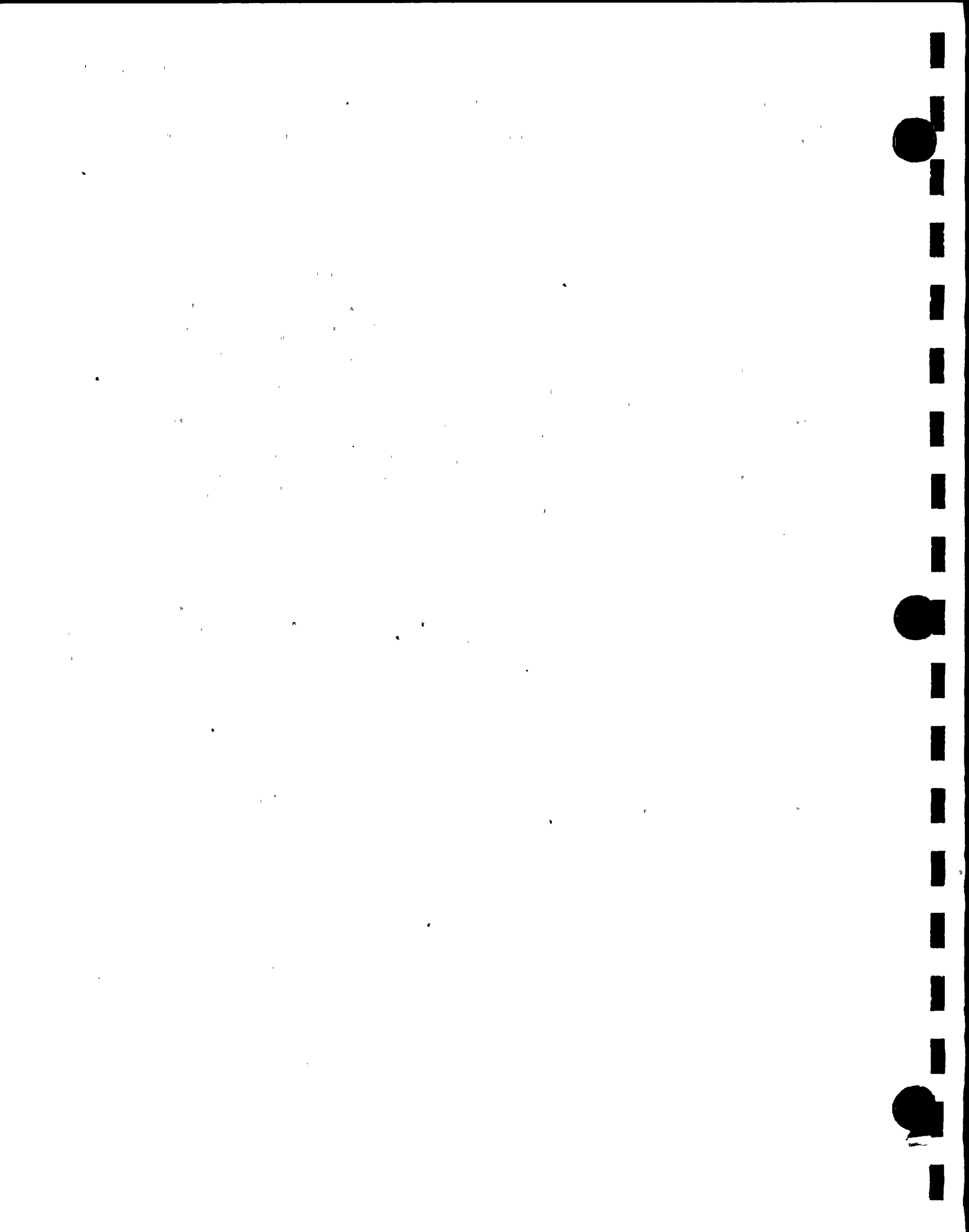
AMBIENT PRESS - 14.41

VAPOR PRESS - .1141531

DRY PRESSURE - 26.60559

FLOWS - 0 0

TOTAL FLOW 0





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## SENSOR LIST

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RECORD NUMBER - 92

DATE - 05/11

TIME - 21:30:11

## PRESSURES

1	-	26.72300	2	-	26.71800
3	-	26.71900	4	-	26.71500
5	-	26.72200	6	-	26.71800

AVG PRESSURE 26.71974

## RTD/S

1	71.360	2	68.888	3	65.611	4	65.706
5	65.060	6	66.705	7	66.759	8	67.030
9	65.129	10	65.252	11	65.853	12	65.269
13	74.989	14	65.999	15	21.726	16	22.523
17	22.761	18	24.406	19	17.941	20	18.970
21	16.990	22	73.103	23	70.472	24	69.701
25	71.165	26	70.680	27	62.109	28	65.800
29	66.204	30	67.581	31	62.743	32	66.967
33	60.855	34	69.261	35	70.277	36	70.749
37	69.838	38	68.181	39	69.293	40	67.007
41	69.266	42	71.469	43	69.604	44	67.673
45	69.050	46	68.256	INACT	77.245	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.100

## DEW CELLS

1	45.348	2	40.860	3	41.357	4	14.597
5	14.402	6	40.332	7	38.548	INACT	0.000
INACT	14.407	INACT	69.354	INACT	14.434	INACT	68.604
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 38.234

AMBIENT PRESS - 14.41

VAPOR PRESS - .1135301

DRY PRESSURE - 26.60621

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 93

DATE - 05/11

TIME - 21:45:11

## PRESSURES

1	-	26.72300	2	-	26.71800
3	-	26.71900	4	-	26.71500
5	-	26.72100	6	-	26.71800

AVG PRESSURE 26.71946

## RTD/S

1	71.371	2	68.899	3	65.611	4	65.695
5	65.060	6	66.673	7	66.748	8	67.018
9	65.107	10	65.220	11	65.853	12	65.312
13	74.946	14	65.965	15	21.812	16	22.718
17	22.933	18	24.632	19	17.961	20	18.990
21	17.012	22	73.123	23	70.526	24	69.712
25	71.165	26	70.680	27	62.089	28	65.791
29	66.204	30	67.581	31	62.731	32	67.368
33	61.072	34	69.261	35	70.288	36	70.717
37	69.869	38	68.115	39	69.262	40	66.996
41	69.266	42	71.457	43	69.584	44	67.673
45	69.050	46	68.245	INACT	75.400	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.111

## DEW CELLS

1	45.167	2	40.646	3	41.187	4	14.597
5	14.143	6	40.162	7	38.460	INACT	0.000
INACT	14.408	INACT	69.296	INACT	14.435	INACT	68.546
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 38.074

AMBIENT PRESS - 14.41

VAPOR PRESS - .1128217

DRY PRESSURE - 26.60663

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 94

DATE - 05/11

TIME - 22: 0:11

## PRESSURES

1 -	26.72300	2 -	26.71800
3 -	26.71900	4 -	26.71500
5 -	26.72200	6 -	26.71800

AVG PRESSURE 26.71974

## RTD/S

1	71.394	2	68.899	3	65.602	4	65.695
5	65.051	6	66.682	7	66.748	8	67.018
9	65.084	10	65.209	11	65.842	12	65.269
13	74.946	14	65.999	15	22.027	16	22.922
17	23.149	18	24.794	19	17.984	20	19.024
21	17.012	22	73.123	23	70.506	24	69.712
25	71.145	26	70.658	27	62.055	28	65.791
29	66.182	30	67.570	31	62.720	32	67.282
33	61.169	34	69.240	35	70.268	36	70.729
37	69.838	38	68.115	39	69.250	40	66.957
41	69.239	42	71.419	43	69.577	44	67.666
45	69.032	46	68.227	INACT	75.418	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.117

## DEW CELLS

1	45.168	2	40.486	3	41.096	4	15.372
5	14.059	6	39.979	7	38.191	INACT	0.000
INACT	14.409	INACT	69.236	INACT	14.435	INACT	68.488
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 37.994

AMBIENT PRESS - 14.41

VAPOR PRESS - .1124658

DRY PRESSURE - 26.60728

FLOWS - 0 0

TOTAL FLOW 0

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## SENSOR LIST

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RECORD NUMBER - 95

DATE - 05/11

TIME - 22:15:11

## PRESSURES

1 -	26.72300	2 -	26.71800
3 -	26.71900	4 -	26.71500
5 -	26.72200	6 -	26.71800

AVG PRESSURE 26.71974

## RTD/S

1	71.426	2	68.911	3	65.591	4	65.706
5	65.039	6	66.662	7	66.748	8	67.007
9	65.084	10	65.209	11	65.842	12	65.280
13	74.957	14	65.965	15	22.135	16	23.126
17	23.353	18	25.074	19	17.995	20	19.024
21	17.035	22	73.123	23	70.537	24	69.689
25	71.156	26	70.646	27	62.044	28	65.768
29	66.170	30	67.548	31	62.700	32	67.150
33	60.812	34	69.218	35	70.277	36	70.760
37	69.847	38	68.104	39	69.230	40	66.973
41	69.234	42	71.403	43	69.550	44	67.661
45	69.027	46	68.256	INACT	75.078	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.119

## DEW CELLS

1	44.993	2	40.295	3	40.832	4	15.198
5	14.314	6	39.807	7	38.104	INACT	0.000
INACT	14.407	INACT	69.182	INACT	14.435	INACT	68.423
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 37.869

AMBIENT PRESS - 14.41

VAPOR PRESS - .1119165

DRY PRESSURE - 26.60782

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 96

DATE - 05/11

TIME - 22:30:11

## PRESSURES

1	-	26.72400	2	-	26.71800
3	-	26.71900	4	-	26.71500
5	-	26.72200	6	-	26.71800

AVG PRESSURE 26.71989

## RTD/S

1	71.464	2	68.938	3	65.575	4	65.679
5	65.055	6	66.677	7	66.743	8	67.003
9	65.113	10	65.184	11	65.826	12	65.275
13	75.061	14	66.006	15	22.345	16	23.346
17	23.629	18	25.391	19	18.022	20	19.039
21	17.051	22	73.121	23	70.544	24	69.685
25	71.140	26	70.653	27	62.051	28	65.786
29	66.188	30	67.554	31	62.695	32	67.137
33	60.850	34	69.256	35	70.229	36	70.736
37	69.833	38	68.099	39	69.235	40	66.953
41	69.245	42	71.369	43	69.550	44	67.650
45	69.016	46	68.222	INACT	74.926	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.137

## DEW CELLS

1	45.174	2	40.220	3	40.745	4	15.893
5	14.055	6	39.719	7	37.925	INACT	0.000
INACT	14.409	INACT	69.146	INACT	14.436	INACT	68.376
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 37.865

AMBIENT PRESS - 14.41

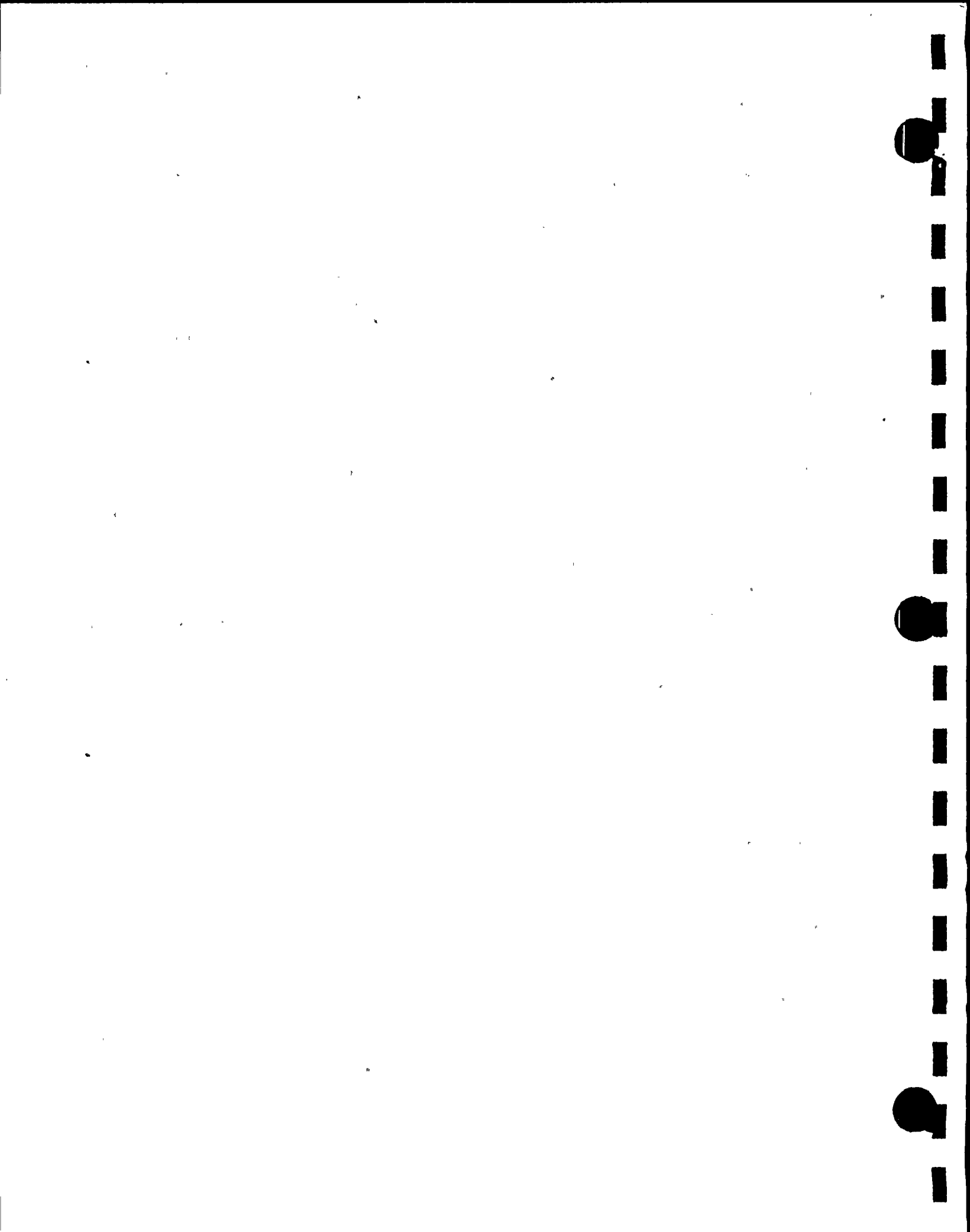
VAPOR PRESS - .1118986

DRY PRESSURE - 26.60799

FLOWS - 0 0

TOTAL FLOW 0





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## SENSOR LIST

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RECORD NUMBER - 97

DATE - 05/11

TIME - 22:45:11

## PRESSURES

1 -	26.72400	2 -	26.71900
3 -	26.71900	4 -	26.71500
5 -	26.72200	6 -	26.71800

AVG PRESSURE 26.72004

## RTD/S

1	71.476	2	68.929	3	65.564	4	65.679
5	65.035	6	66.668	7	66.732	8	66.991
9	65.079	10	65.205	11	65.804	12	65.233
13	75.061	14	65.940	15	22.496	16	23.553
17	23.822	18	25.606	19	18.033	20	19.071
21	17.071	22	73.098	23	70.490	24	69.696
25	71.129	26	70.653	27	62.051	28	65.732
29	66.146	30	67.534	31	62.684	32	67.017
33	60.819	34	69.193	35	70.220	36	70.690
37	69.865	38	68.111	39	69.203	40	66.937
41	69.230	42	71.376	43	69.525	44	67.645
45	69.011	46	68.272	INACT	74.939	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.132

## DEW CELLS

1	44.994	2	39.978	3	40.567	4	16.071
5	13.970	6	39.545	7	37.658	INACT	0.000
INACT	14.409	INACT	69.097	INACT	14.434	INACT	68.338
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 37.681

AMBIENT PRESS - 14.41

VAPOR PRESS - .1110926

DRY PRESSURE - 26.60894

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 98

DATE - 05/11

TIME - 23: 0:11

## PRESSURES

1	-	26.72400	2	-	26.71900
3	-	26.71900	4	-	26.71500
5	-	26.72200	6	-	26.71900

AVG PRESSURE 26.72032

## RTD/S

1	71.476	2	68.949	3	65.575	4	65.667
5	65.024	6	66.657	7	66.732	8	66.991
9	65.091	10	65.184	11	65.826	12	65.253
13	75.073	14	65.995	15	22.734	16	23.788
17	24.123	18	25.864	19	18.044	20	19.082
21	17.093	22	73.087	23	70.501	24	69.685
25	71.161	26	70.633	27	62.051	28	65.732
29	66.134	30	67.534	31	62.672	32	66.931
33	60.765	34	69.181	35	70.229	36	70.690
37	69.865	38	68.068	39	69.214	40	66.942
41	69.211	42	71.360	43	69.518	44	67.630
45	68.995	46	68.256	INACT	74.658	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.144

## DEW CELLS

1	45.082	2	40.060	3	40.479	4	15.989
5	14.492	6	39.545	7	37.662	INACT	0.000
INACT	14.409	INACT	69.075	INACT	14.435	INACT	68.349
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 37.755

AMBIENT PRESS - 14.41

VAPOR PRESS - .111418

DRY PRESSURE - 26.6089

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 99

DATE - 05/11

TIME - 23:15:11

## PRESSURES

1 -	26.72400	2 -	26.71900
3 -	26.72000	4 -	26.71600
5 -	26.72200	6 -	26.71900

AVG PRESSURE 26.72046

## RTD/S

1	71.519	2	68.949	3	65.543	4	65.667
5	65.024	6	66.634	7	66.732	8	67.003
9	65.079	10	65.173	11	65.795	12	65.221
13	75.007	14	65.983	15	22.906	16	23.993
17	24.372	18	26.156	19	18.076	20	19.093
21	17.116	22	73.087	23	70.490	24	69.685
25	71.172	26	70.642	27	62.030	28	65.732
29	66.134	30	67.534	31	62.661	32	66.843
33	60.839	34	69.224	35	70.175	36	70.670
37	69.810	38	68.034	39	69.203	40	66.908
41	69.211	42	71.403	43	69.495	44	67.630
45	68.973	46	68.191	INACT	74.329	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.146

## DEW CELLS

1	45.168	2	39.777	3	40.390	4	16.251
5	14.226	6	39.273	7	37.461	INACT	0.000
INACT	14.409	INACT	69.059	INACT	14.436	INACT	68.333
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 37.666

AMBIENT PRESS - 14.41

VAPOR PRESS - .1110284

DRY PRESSURE - 26.60943

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 100

DATE - 05/11

TIME - 23:30:11

## PRESSURES

1 -	26.72400	2 -	26.71900
3 -	26.72000	4 -	26.71600
5 -	26.72200	6 -	26.71900

AVG PRESSURE 26.72046

## RTD/S

1	71.541	2	68.949	3	65.543	4	65.690
5	65.012	6	66.646	7	66.711	8	67.003
9	65.070	10	65.184	11	65.783	12	65.233
13	74.953	14	65.983	15	23.088	16	24.208
17	24.619	18	26.403	19	18.098	20	19.113
21	17.136	22	73.087	23	70.533	24	69.674
25	71.183	26	70.642	27	61.987	28	65.720
29	66.123	30	67.512	31	62.661	32	66.811
33	60.882	34	69.193	35	70.209	36	70.670
37	69.842	38	68.025	39	69.214	40	66.899
41	69.200	42	71.380	43	69.486	44	67.630
45	68.962	46	68.234	INACT	73.967	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.156

## DEW CELLS

1	45.171	2	39.692	3	40.219	4	16.687
5	14.318	6	39.191	7	37.373	INACT	0.000
INACT	14.411	INACT	69.053	INACT	14.438	INACT	68.423
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 37.637

AMBIENT PRESS - 14.41

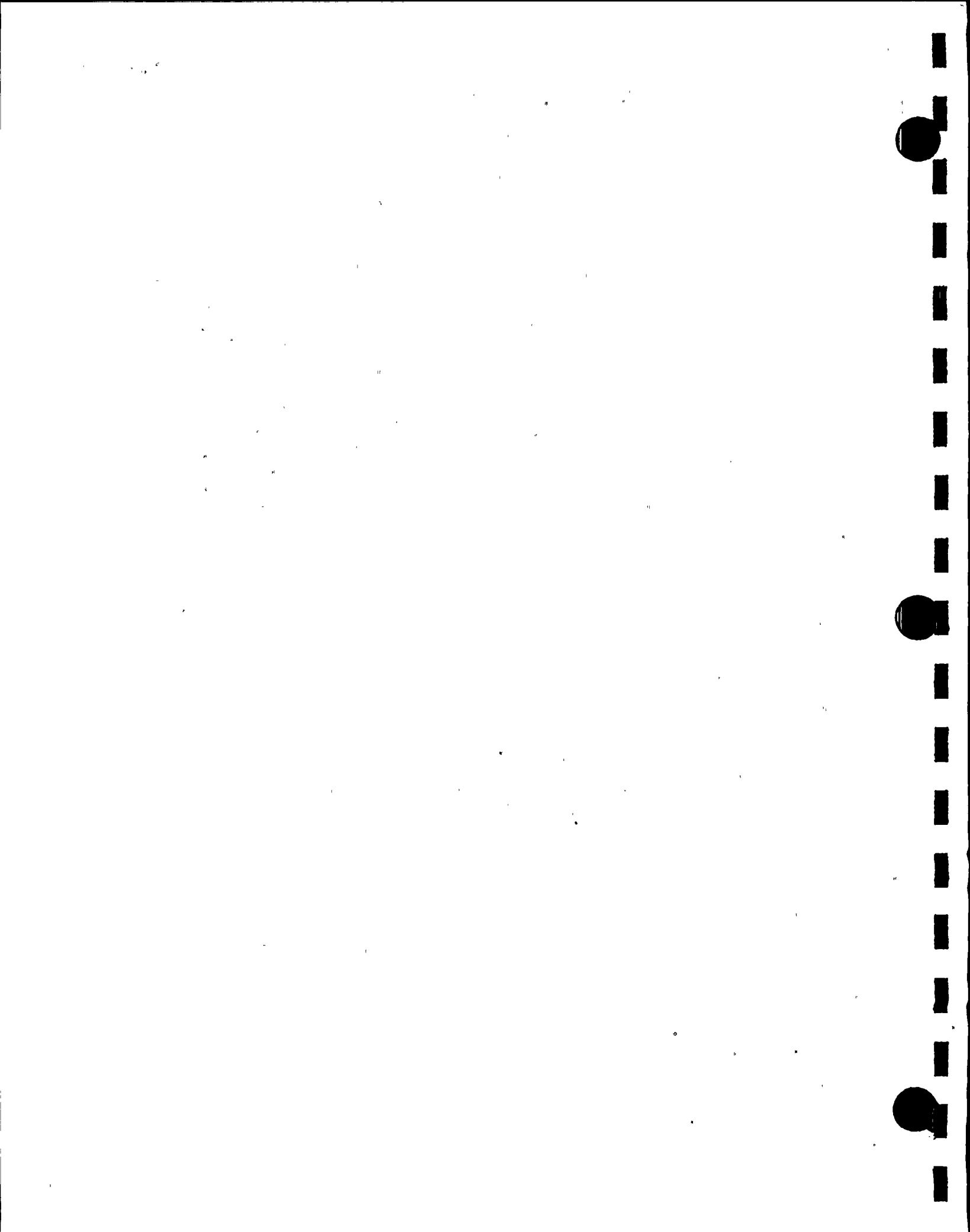
VAPOR PRESS - .1108999

DRY PRESSURE - 26.60956

FLOWS - 0 0

TOTAL FLOW 0





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## SENSOR LIST

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RECORD NUMBER - 101

DATE - 05/11

TIME - 23:45:11

## PRESSURES

1 -	26.72500	2 -	26.71900
3 -	26.72000	4 -	26.71600
5 -	26.72300	6 -	26.71900

AVG PRESSURE 26.72089

## RTD/S

1	71.573	2	68.961	3	65.532	4	65.656
5	65.012	6	66.634	7	66.711	8	66.991
9	65.059	10	65.130	11	65.783	12	65.221
13	75.007	14	65.906	15	23.261	16	24.446
17	24.866	18	26.619	19	18.118	20	19.129
21	17.151	22	73.114	23	70.483	24	69.678
25	71.134	26	70.603	27	61.958	28	65.714
29	66.107	30	67.505	31	62.645	32	66.664
33	60.769	34	69.175	35	70.245	36	70.695
37	69.890	38	68.007	39	69.142	40	66.894
41	69.196	42	71.321	43	69.491	44	67.625
45	68.980	46	68.218	INACT	73.225	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.159

## DEW CELLS

1	45.171	2	39.512	3	40.134	4	16.861
5	14.403	6	38.919	7	37.287	INACT	0.000
INACT	14.348	INACT	69.075	INACT	14.379	INACT	68.530
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 37.589

AMBIENT PRESS - 14.348

VAPOR PRESS - .1106898

DRY PRESSURE - 26.6102

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 102

DATE - 05/12

TIME - 0: 0:11

## PRESSURES

1 -	26.72500	2 -	26.72000
3 -	26.72000	4 -	26.71600
5 -	26.72300	6 -	26.72000

AVG PRESSURE- 26.72132

## RTD/S

1	71.596	2	68.961	3	65.532	4	65.624
5	65.024	6	66.634	7	66.723	8	66.991
9	65.025	10	65.139	11	65.772	12	65.210
13	75.018	14	65.995	15	23.487	16	24.682
17	25.061	18	26.846	19	18.141	20	19.152
21	17.163	22	73.103	23	70.440	24	69.678
25	71.211	26	70.603	27	61.947	28	65.714
29	66.107	30	67.505	31	62.634	32	66.501
33	60.704	34	69.218	35	70.245	36	70.663
37	69.838	38	68.007	39	69.187	40	66.871
41	69.187	42	71.333	43	69.470	44	67.614
45	68.948	46	68.198	INACT	72.974	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.169

## DEW CELLS

1	44.820	2	39.440	3	39.960	4	17.126
5	14.055	6	38.929	7	37.103	INACT	0.000
INACT	14.347	INACT	69.071	INACT	14.383	INACT	68.579
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 37.372

AMBIENT PRESS - 14.348

VAPOR PRESS - .10975

DRY PRESSURE - 26.61157

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 103

DATE - 05/12

TIME - 0:15:11

## PRESSURES

1 -	26.72500	2 -	26.72000
3 -	26.72100	4 -	26.71700
5 -	26.72300	6 -	26.72000

AVG PRESSURE 26.72145

## RTD/S

1	71.627	2	68.972	3	65.521	4	65.647
5	65.012	6	66.623	7	66.711	8	66.991
9	65.016	10	65.150	11	65.772	12	65.199
13	75.007	14	65.906	15	23.703	16	24.931
17	25.395	18	27.092	19	18.152	20	19.174
21	17.185	22	73.091	23	70.494	24	69.667
25	71.177	26	70.603	27	61.915	28	65.702
29	66.107	30	67.505	31	62.634	32	65.941
33	60.769	34	69.197	35	70.202	36	70.620
37	69.869	38	68.018	39	69.153	40	66.844
41	69.168	42	71.294	43	69.464	44	67.607
45	68.930	46	68.202	INACT	72.234	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.166

## DEW CELLS

1	44.731	2	39.282	3	39.957	4	17.753
5	14.059	6	38.844	7	37.110	INACT	0.000
INACT	14.347	INACT	69.053	INACT	14.383	INACT	68.604
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 37.349

AMBIENT PRESS - 14.348

VAPOR PRESS - .1096508

DRY PRESSURE - 26.6118

FLOWS - 0 0

TOTAL FLOW 0



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## SENSOR LIST

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RECORD NUMBER - 104

DATE - 05/12

TIME - 0:30:11

## PRESSURES

1 -	26.72500	2 -	26.72000
3 -	26.72100	4 -	26.71700
5 -	26.72300	6 -	26.72000

AVG PRESSURE 26.72145

## RTD/S

1	71.661	2	68.983	3	65.521	4	65.636
5	65.012	6	66.623	7	66.711	8	66.982
9	65.025	10	65.139	11	65.772	12	65.178
13	75.027	14	65.897	15	23.822	16	25.135
17	25.609	18	27.362	19	18.172	20	19.183
21	17.194	22	73.114	23	70.429	24	69.667
25	71.188	26	70.603	27	61.904	28	65.691
29	66.084	30	67.496	31	62.623	32	65.701
33	60.638	34	69.197	35	70.214	36	70.640
37	69.838	38	68.061	39	69.121	40	66.844
41	69.157	42	71.337	43	69.452	44	67.596
45	68.898	46	68.191	INACT	72.098	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.170

## DEW CELLS

1	44.823	2	39.062	3	39.783	4	17.396
5	14.147	6	38.663	7	37.017	INACT	0.000
INACT	14.348	INACT	69.086	INACT	19.452	INACT	69.589
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 37.298

AMBIENT PRESS - 14.348

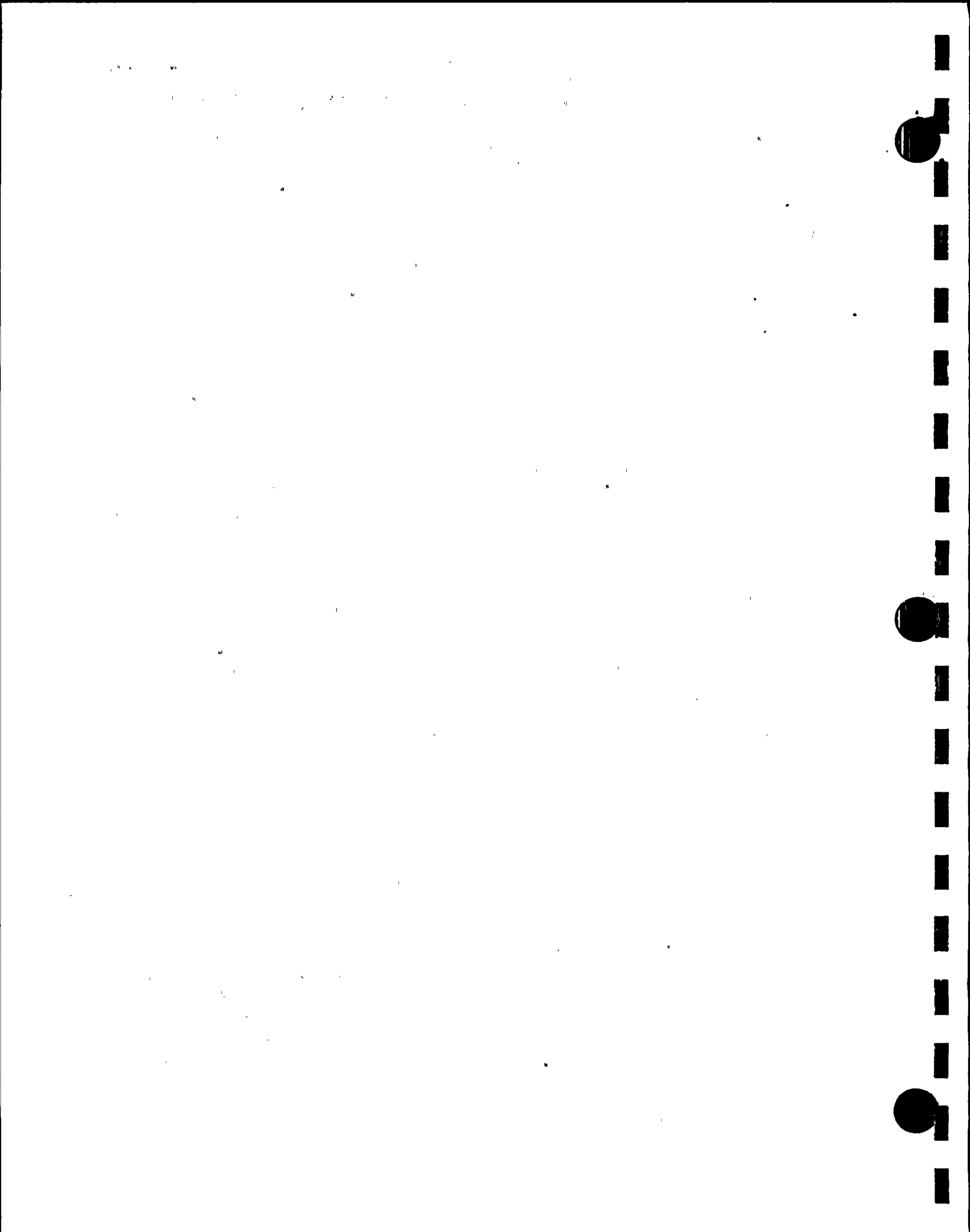
VAPOR PRESS - .10943

DRY PRESSURE - 26.61202

FLOWS - 0 0

TOTAL FLOW 0





## Attachment 6A

\*\*\*\*\*  
DATE - 06-05-1992

## TOTAL TIME WITH VERIFICATION TEST

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TIME - 14:28:48

TIME	MASS	TOTAL TIME		SCFM	VERIFICATION	
		GROSS LSF	GROSS 95% UCL		NET LSF	NET 95% UCL
200	162533	0.0000	0.0000	3.705	-0.2467	-0.2467
215	162523	0.3643	0.0000	3.705	0.1176	-0.2468
230	162522	0.3134	1.2733	3.705	0.0666	1.0265
245	162520	0.2704	0.5084	3.706	0.0236	0.2616
300	162520	0.2209	0.3774	3.706	-0.0259	0.1306
315	162514	0.2111	0.3223	3.706	-0.0357	0.0754
330	162513	0.1939	0.2826	3.706	-0.0529	0.0357
345	162519	0.1563	0.2356	3.706	-0.0905	-0.0112
400	162505	0.1621	0.2343	3.707	-0.0848	-0.0127
415	162502	0.1661	0.2310	3.706	-0.0807	-0.0158
430	162498	0.1696	0.2287	3.706	-0.0773	-0.0182
445	162496	0.1716	0.2256	3.706	-0.0753	-0.0213
500	162491	0.1745	0.2246	3.707	-0.0725	-0.0223
515	162488	0.1770	0.2236	3.706	-0.0699	-0.0233
530	162491	0.1732	0.2159	3.707	-0.0738	-0.0310
545	162486	0.1718	0.2118	3.707	-0.0752	-0.0351
600	162483	0.1701	0.2077	3.707	-0.0768	-0.0393
615	162476	0.1718	0.2076	3.707	-0.0752	-0.0393
630	162473	0.1731	0.2072	3.707	-0.0739	-0.0398
645	162471	0.1735	0.2058	3.707	-0.0735	-0.0411
700	162467	0.1743	0.2052	3.707	-0.0727	-0.0418
715	162458	0.1779	0.2081	3.707	-0.0691	-0.0389

LEAK RATE < MAX AND > MIN ALLOWED  
 (Lo + Lam - .25 La) <= Lc <= (Lo + Lam + .25 La)  
 0.1636 <= 0.1779 <= 0.2886

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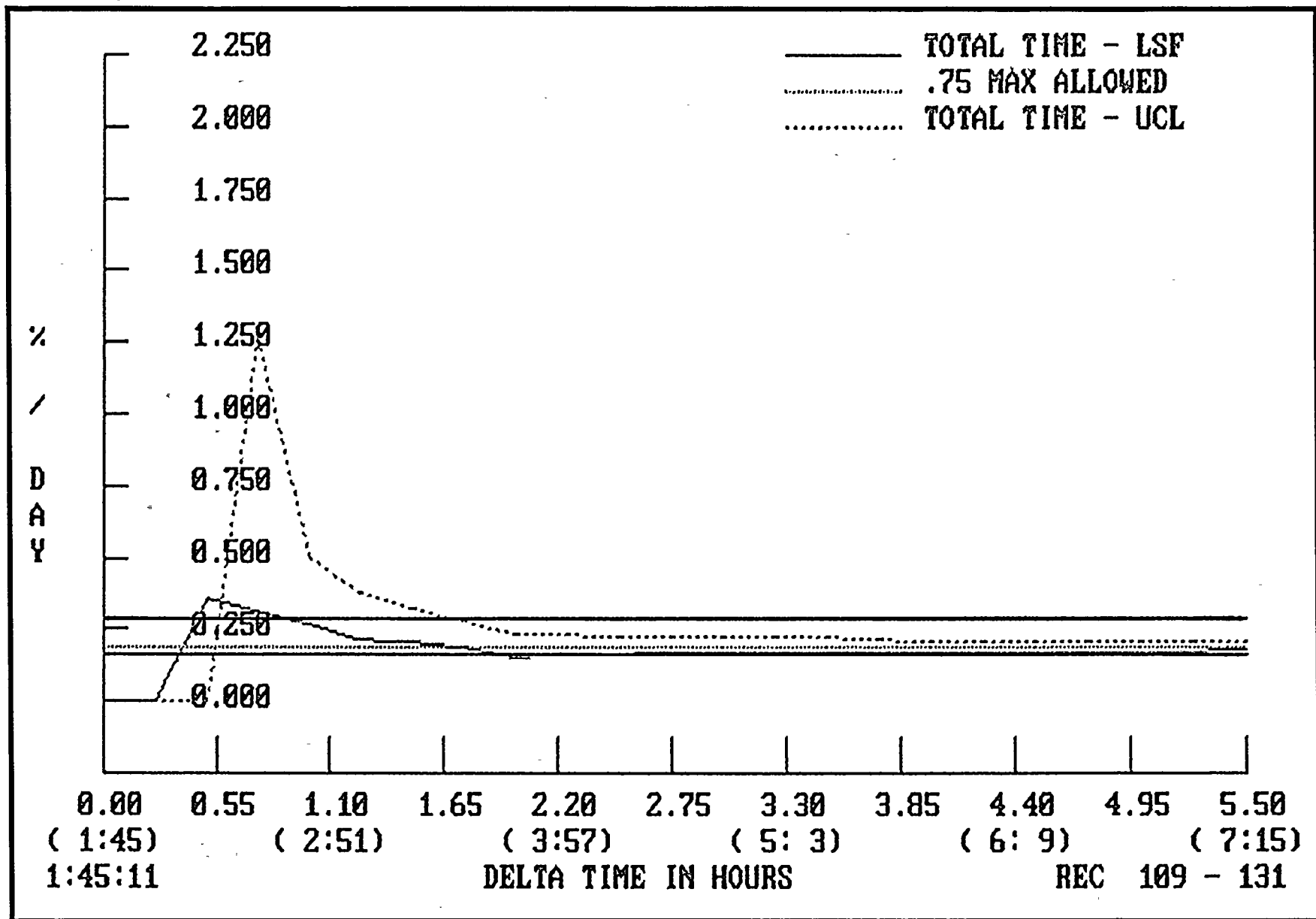
21

22



# TOTAL TIME - VERIFICATION TEST

D.C. COOK - Unit 2, May 12, 1992





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## MASS POINT WITH VERIFICATION TEST

\*\*\*\*\*

DATE - 06-05-1992

TIME - 14:28:51

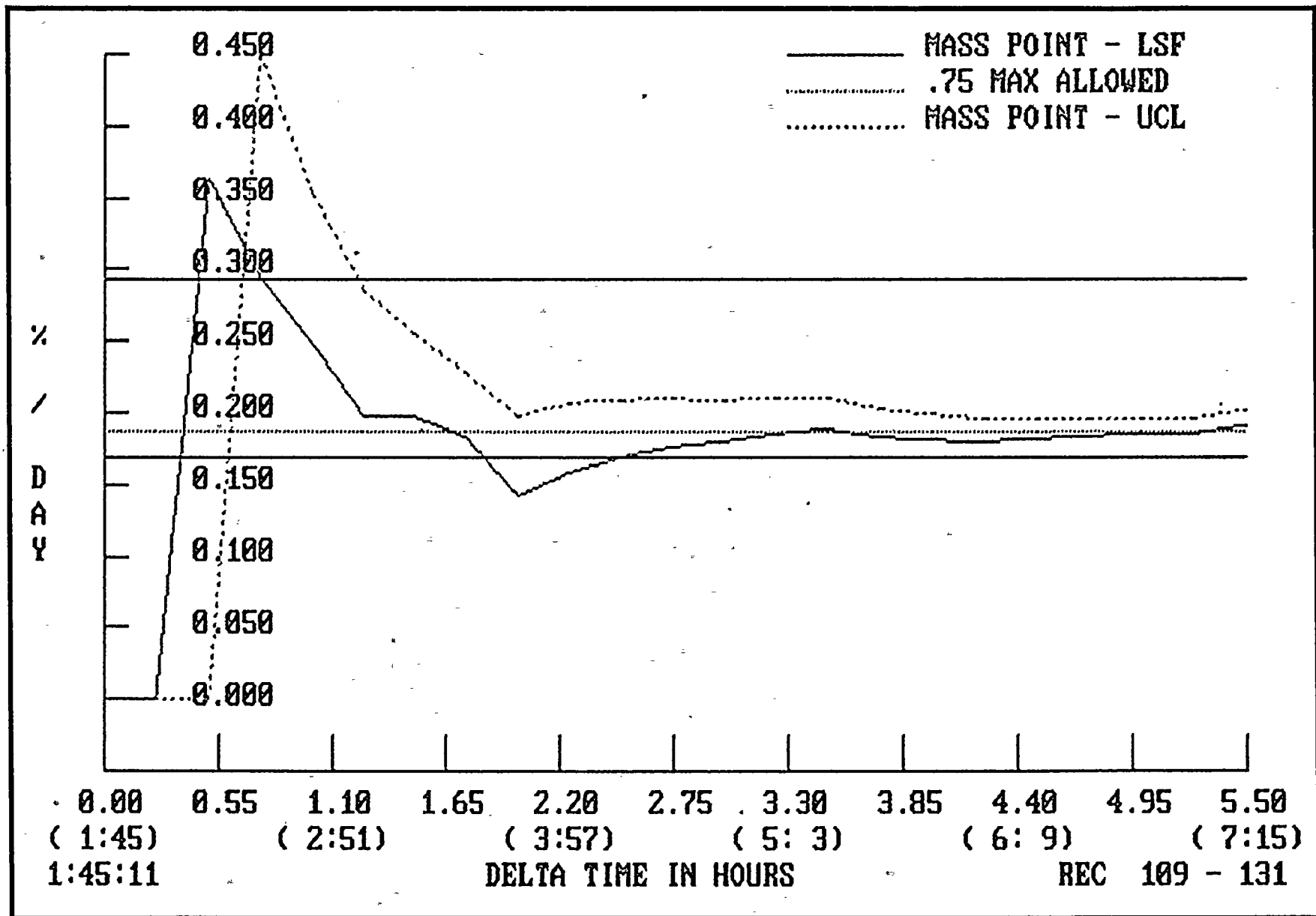
TIME	MASS	MASS POINT		SCFM	VERIFICATION	
		GROSS LSF	GROSS 95% UCL		NET LSF	NET 95 UCL
145	162535.8	0.0000	0.0000	3.705	-0.2467	-0.2467
200	162532.7	0.0000	0.0000	3.705	-0.2467	-0.2467
215	162523.4	0.3642	0.0000	3.705	0.1174	-0.2468
230	162522.2	0.2947	0.4760	3.705	0.0479	0.2292
245	162519.9	0.2491	0.3533	3.706	0.0022	0.1065
300	162520.2	0.1983	0.2862	3.706	-0.0486	0.0393
315	162514.0	0.1976	0.2564	3.706	-0.0492	0.0095
330	162513.5	0.1836	0.2287	3.706	-0.0632	-0.0182
345	162519.2	0.1423	0.1989	3.706	-0.1046	-0.0480
400	162505.1	0.1591	0.2069	3.707	-0.0879	-0.0400
415	162501.9	0.1695	0.2095	3.706	-0.0774	-0.0373
430	162498.4	0.1769	0.2107	3.706	-0.0700	-0.0361
445	162495.6	0.1811	0.2098	3.706	-0.0658	-0.0371
500	162491.3	0.1857	0.2106	3.707	-0.0612	-0.0364
515	162487.8	0.1893	0.2110	3.706	-0.0576	-0.0359
530	162490.6	0.1839	0.2035	3.707	-0.0631	-0.0434
545	162485.8	0.1821	0.1995	3.707	-0.0648	-0.0475
600	162483.5	0.1801	0.1955	3.707	-0.0669	-0.0514
615	162476.2	0.1826	0.1966	3.707	-0.0644	-0.0504
630	162473.0	0.1844	0.1971	3.707	-0.0625	-0.0498
645	162471.1	0.1849	0.1964	3.707	-0.0621	-0.0506
700	162467.1	0.1859	0.1963	3.707	-0.0611	-0.0507
715	162457.6	0.1907	0.2013	3.707	-0.0563	-0.0456

(Lo + Lam - .25 La) <=	Lc <=	(Lo + Lam + .25 La)
0.1690 <=	0.1907 <=	0.2940



# MASS POINT - VERIFICATION TEST

D.C. COOK - Unit 2, May 12, 1992







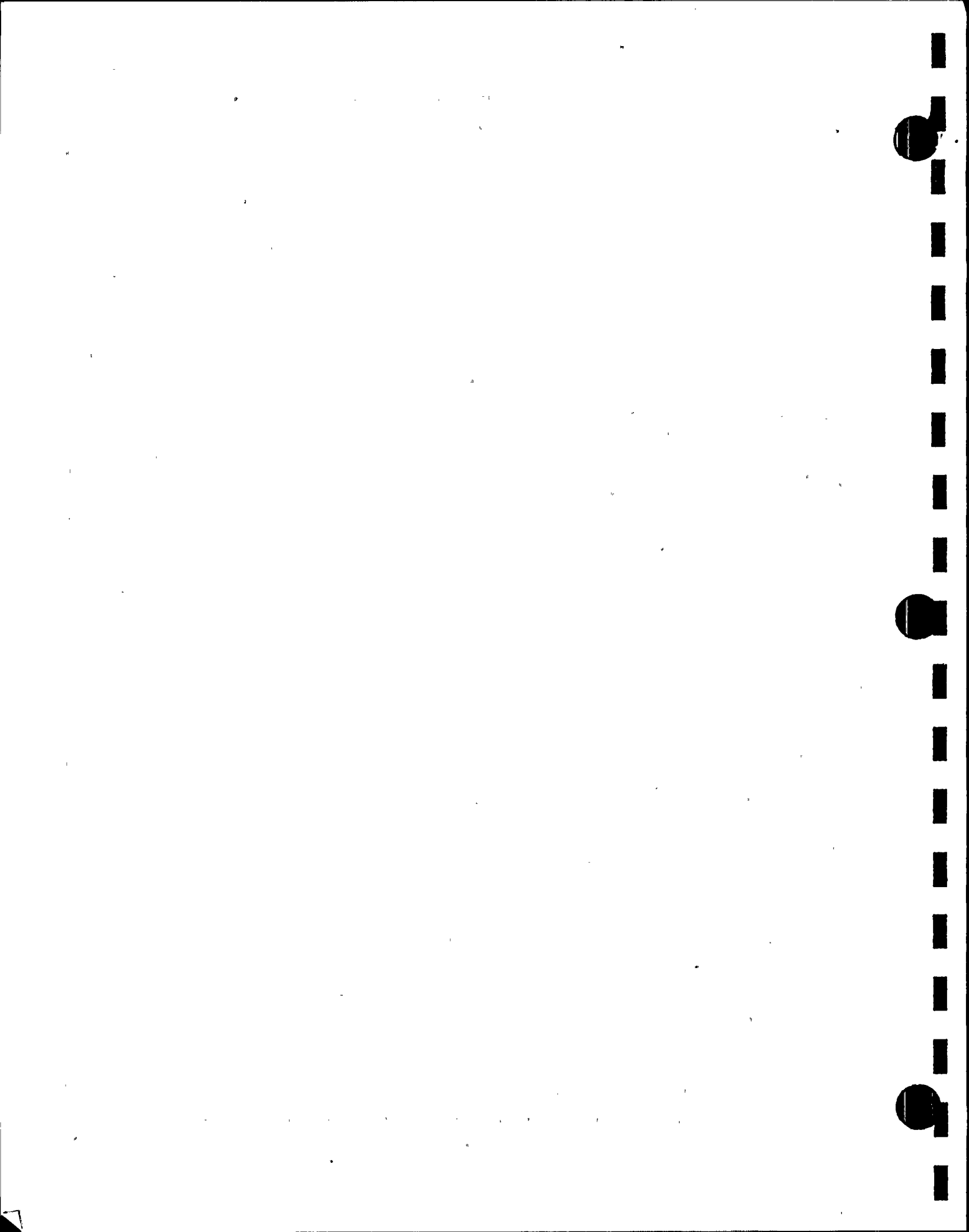
## Attachment 6E

\*\*\*\*\*  
DATE - 06-05-1992

## MASS LOSS

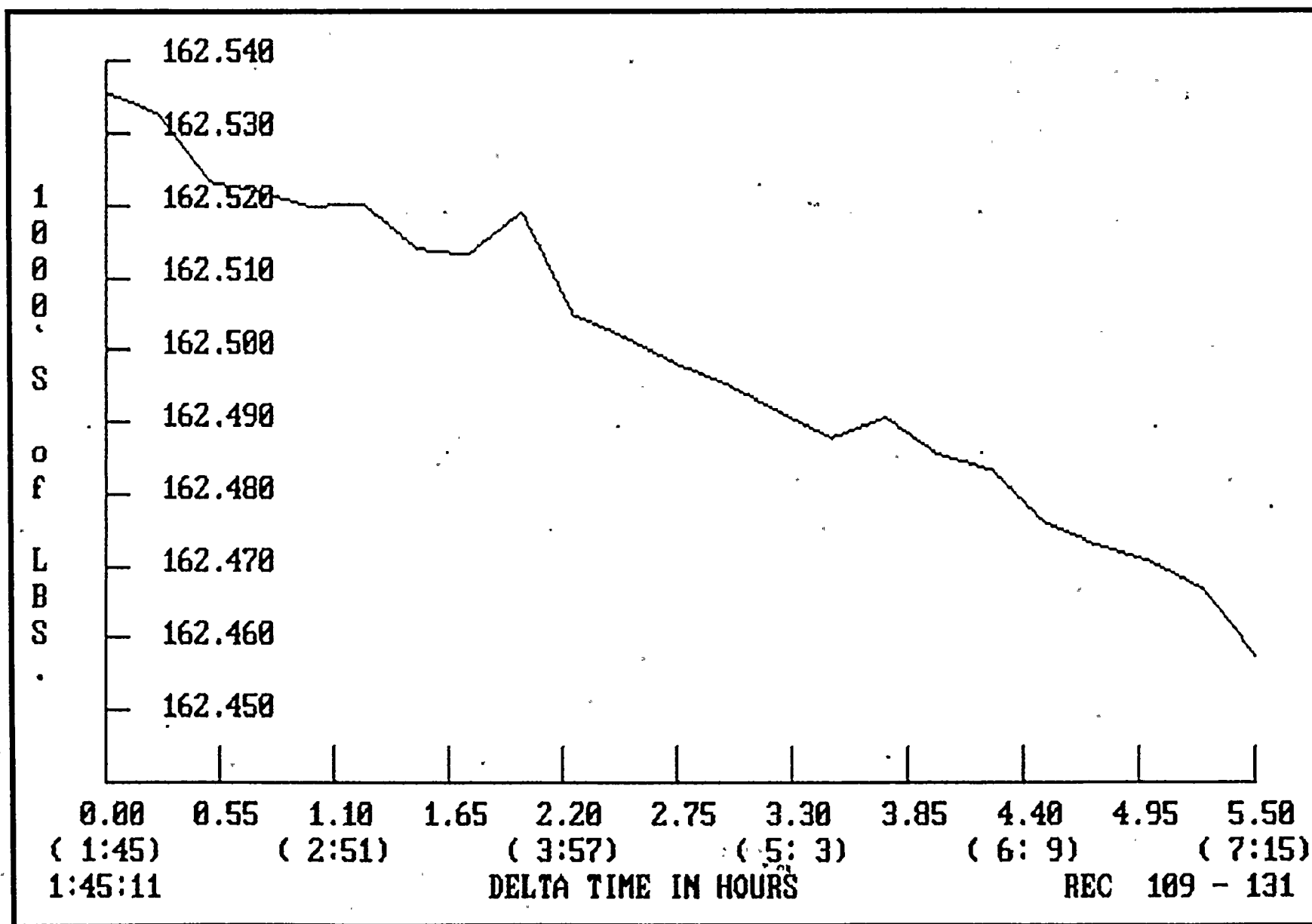
\*\*\*\*\*  
TIME - 14:29:00

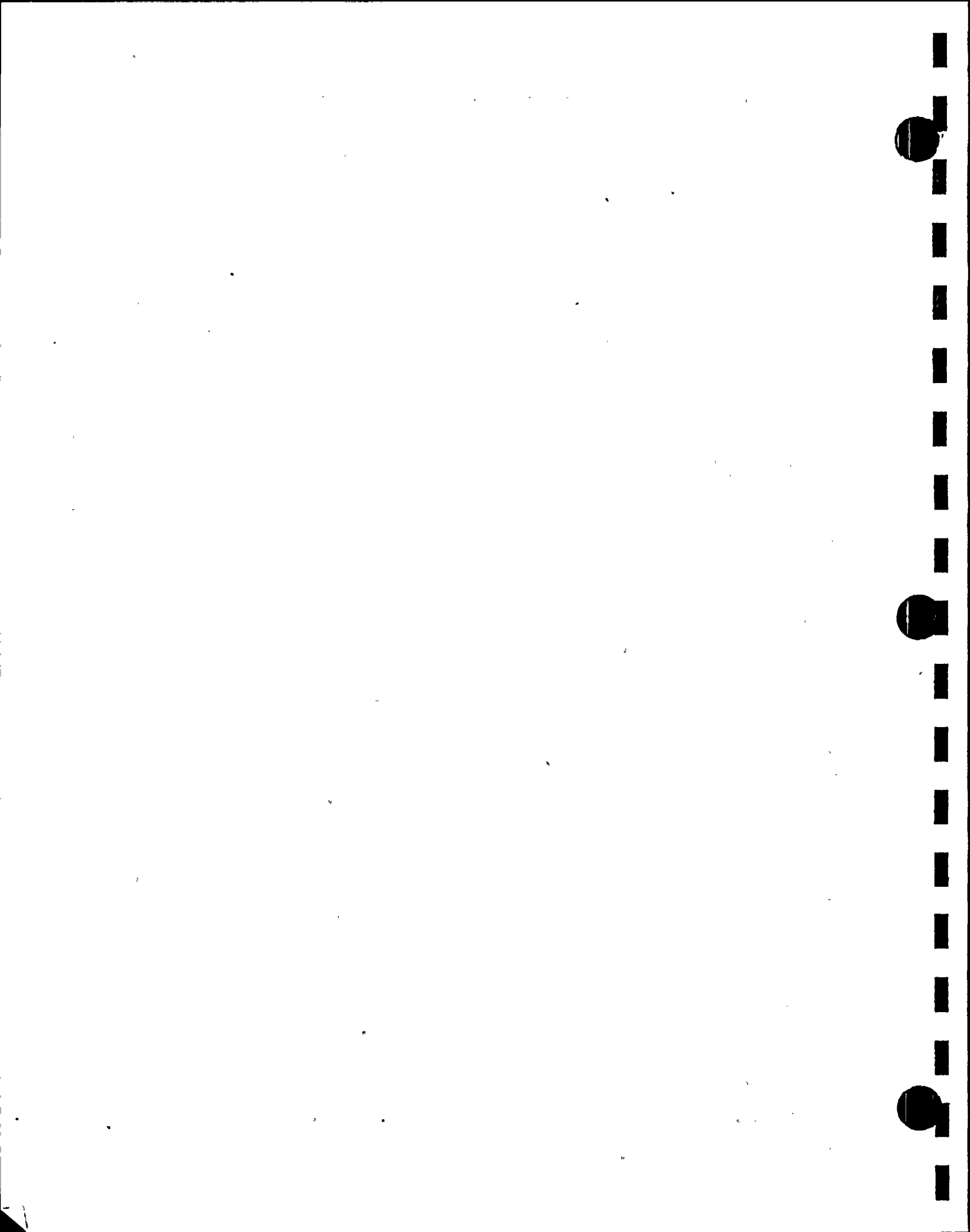
REC NUM	TIME. DELTA (HOURS)	CONT AIR MASS	MASS LOSS INCR	MASS LOSS (1 HR)	MASS LOSS (x 24)
109	0.00	162535.750	0.000	0.000	0.000
110	0.25	162532.656	-3.094	0.000	0.000
111	0.50	162523.422	-9.234	0.000	0.000
112	0.75	162522.203	-1.219	0.000	0.000
113	1.00	162519.906	-2.297	15.844	380.250
114	1.25	162520.156	0.250	12.500	300.000
115	1.50	162514.031	-6.125	9.391	225.375
116	1.75	162513.484	-0.547	8.719	209.250
117	2.00	162519.203	5.719	0.703	16.875
118	2.25	162505.063	-14.141	15.094	362.250
119	2.50	162501.906	-3.156	12.125	291.000
120	2.75	162498.422	-3.484	15.063	361.500
121	3.00	162495.563	-2.859	23.641	567.375
122	3.25	162491.313	-4.250	13.750	330.000
123	3.50	162487.781	-3.531	14.125	339.000
124	3.75	162490.578	2.797	7.844	188.250
125	4.00	162485.781	-4.797	9.781	234.750
126	4.25	162483.484	-2.297	7.828	187.875
127	4.50	162476.172	-7.313	11.609	278.625
128	4.75	162473.031	-3.141	17.547	421.125
129	5.00	162471.109	-1.922	14.672	352.125
130	5.25	162467.094	-4.016	16.391	393.375
131	5.50	162457.563	-9.531	18.609	446.625



# MEASURED MASS - VERIFICATION TEST

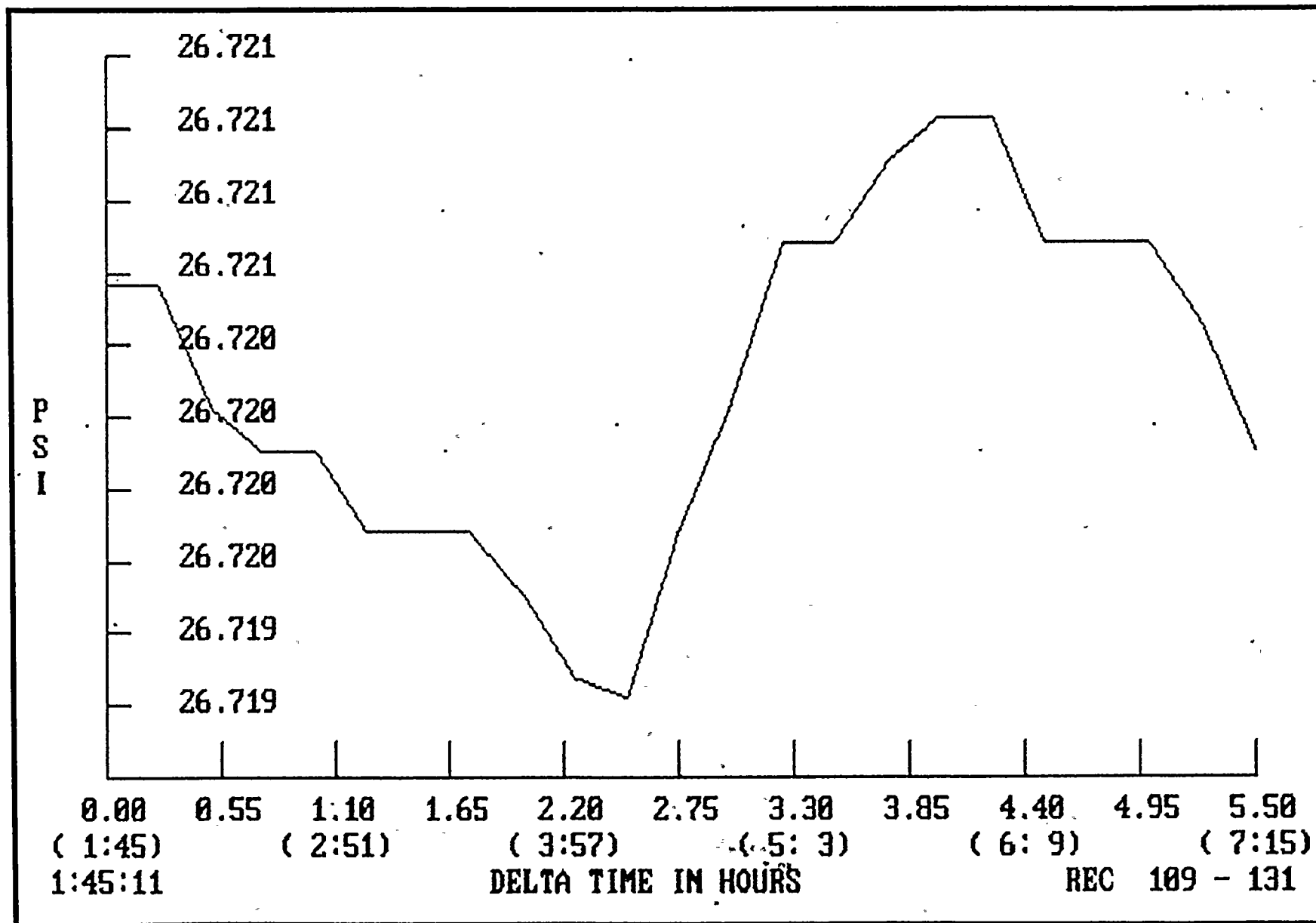
D.C. COOK - Unit 2, May 12, 1992



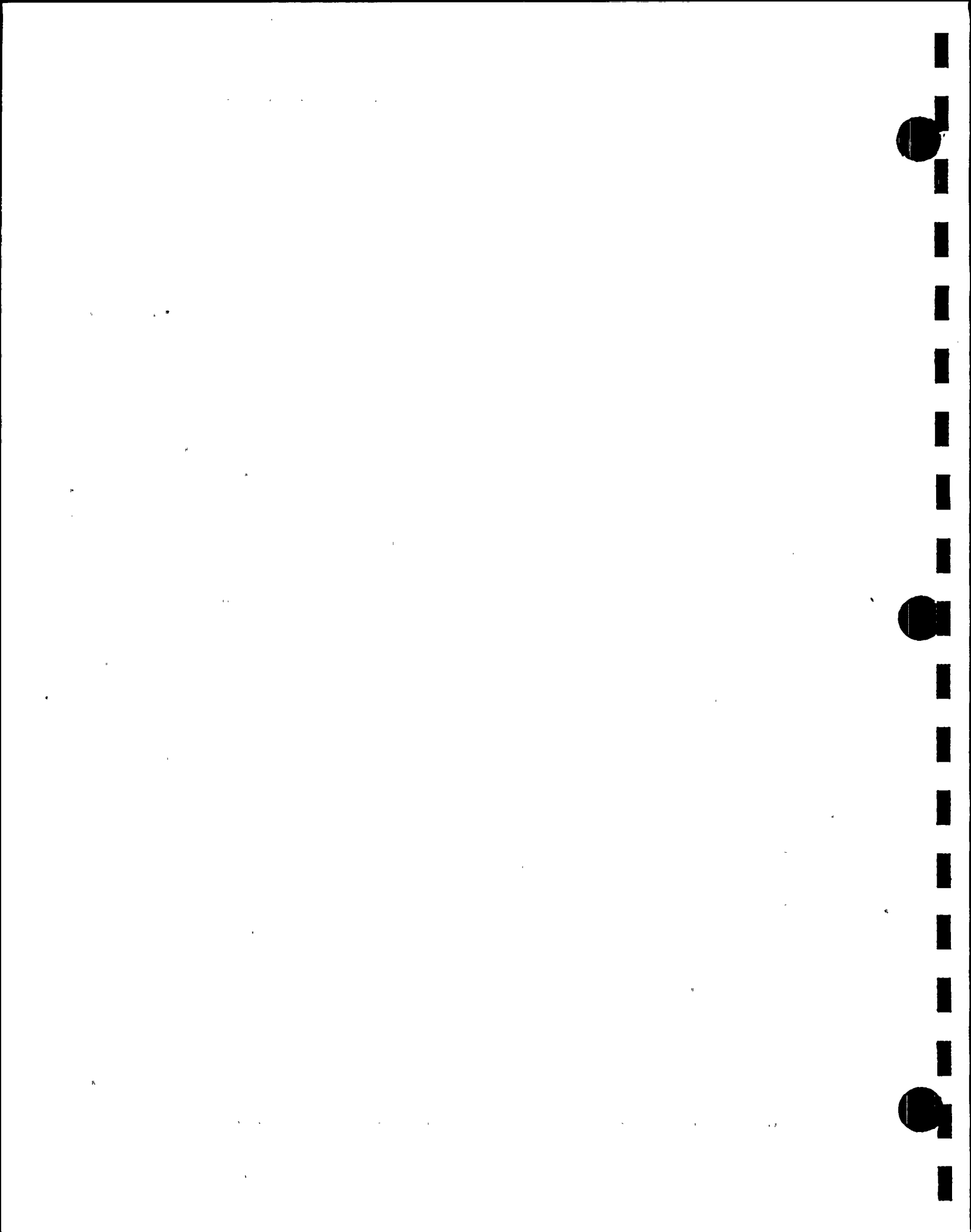


# AVERAGE PRESSURE - VERIFICATION TEST

D.C. COOK - Unit 2, May 12, 1992

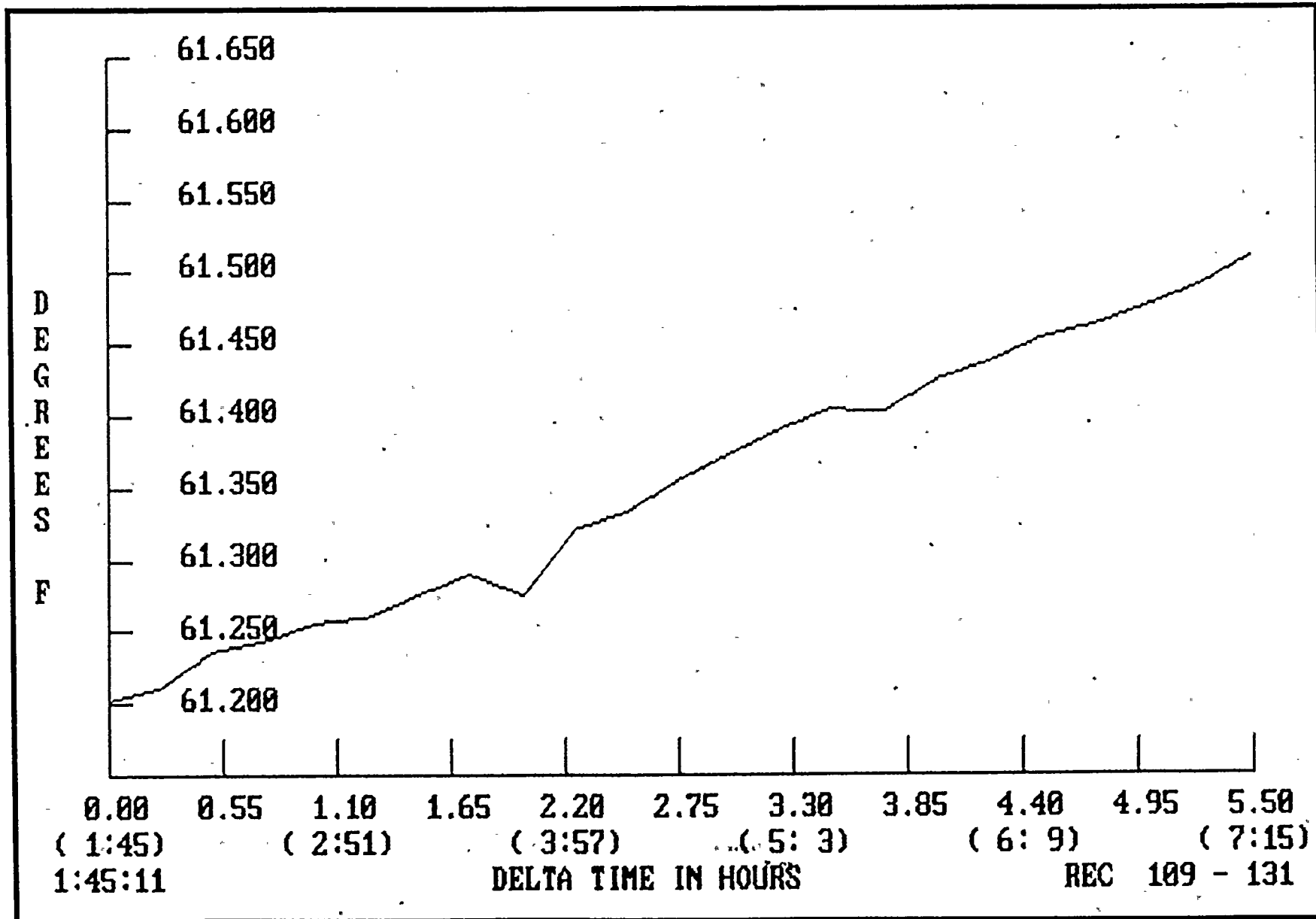


Attachment 6G



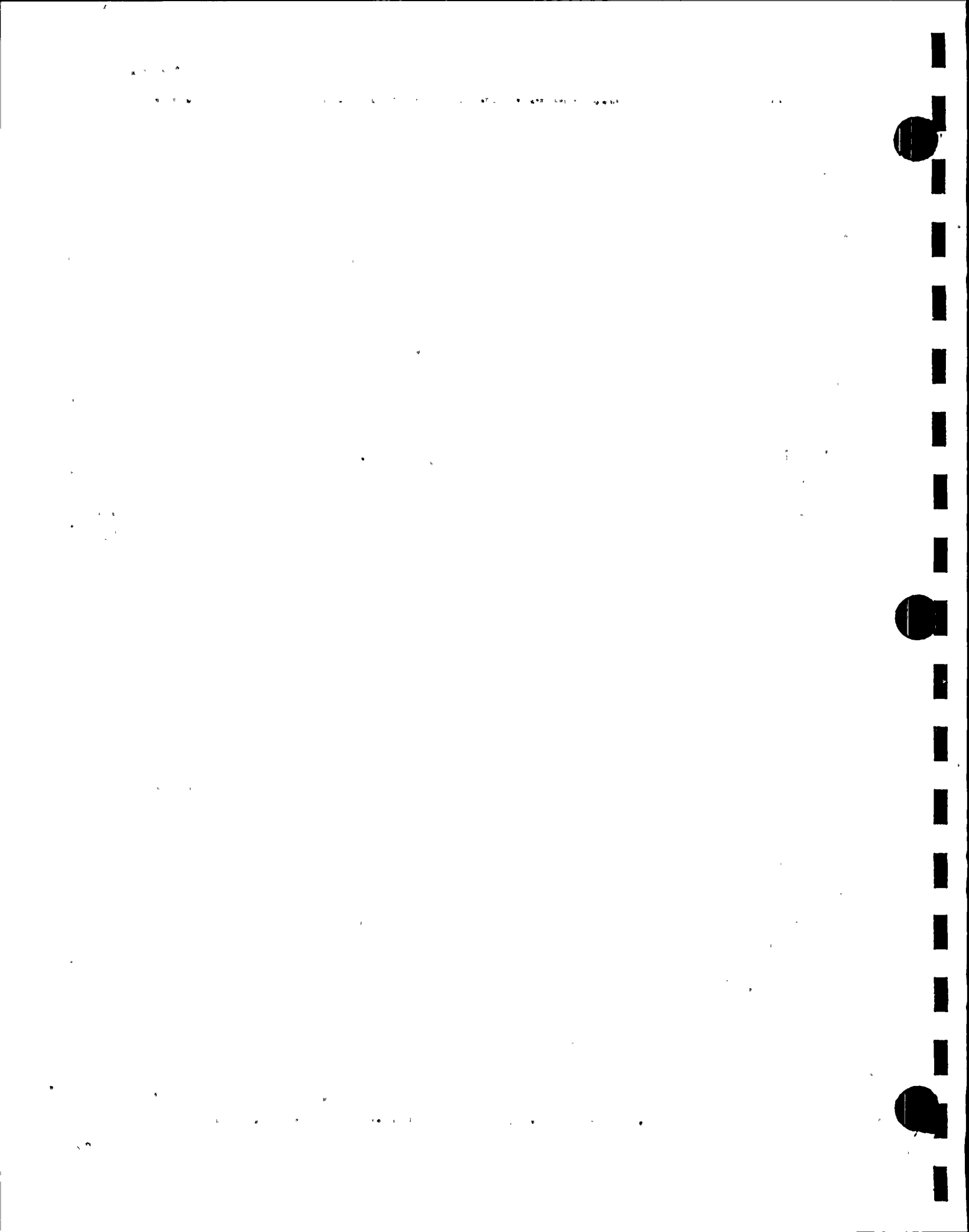
# AVERAGE TEMPERATURE - VERIFICATION TEST

D.C. COOK - Unit 2, May 12, 1992



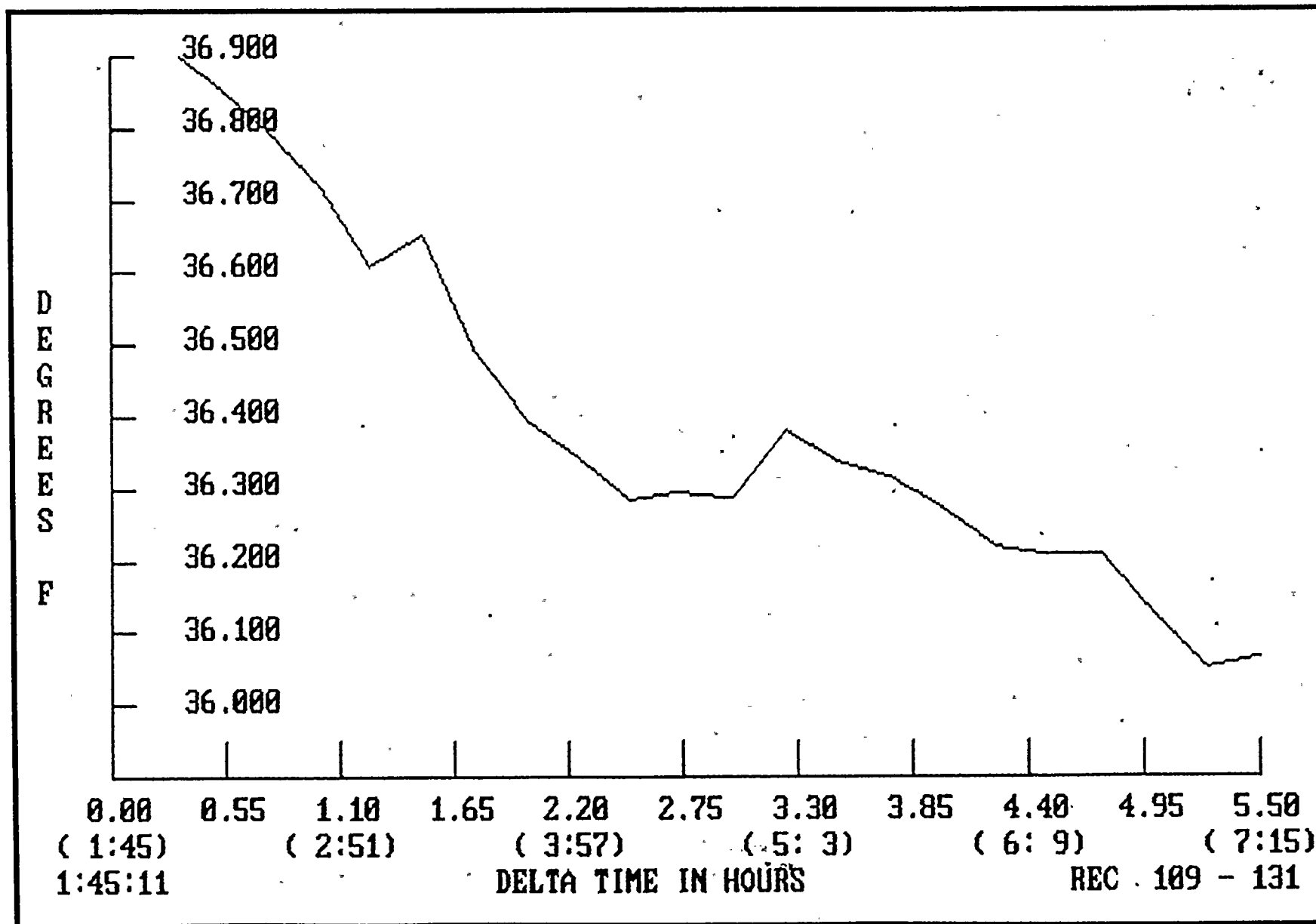
Attachment 6H

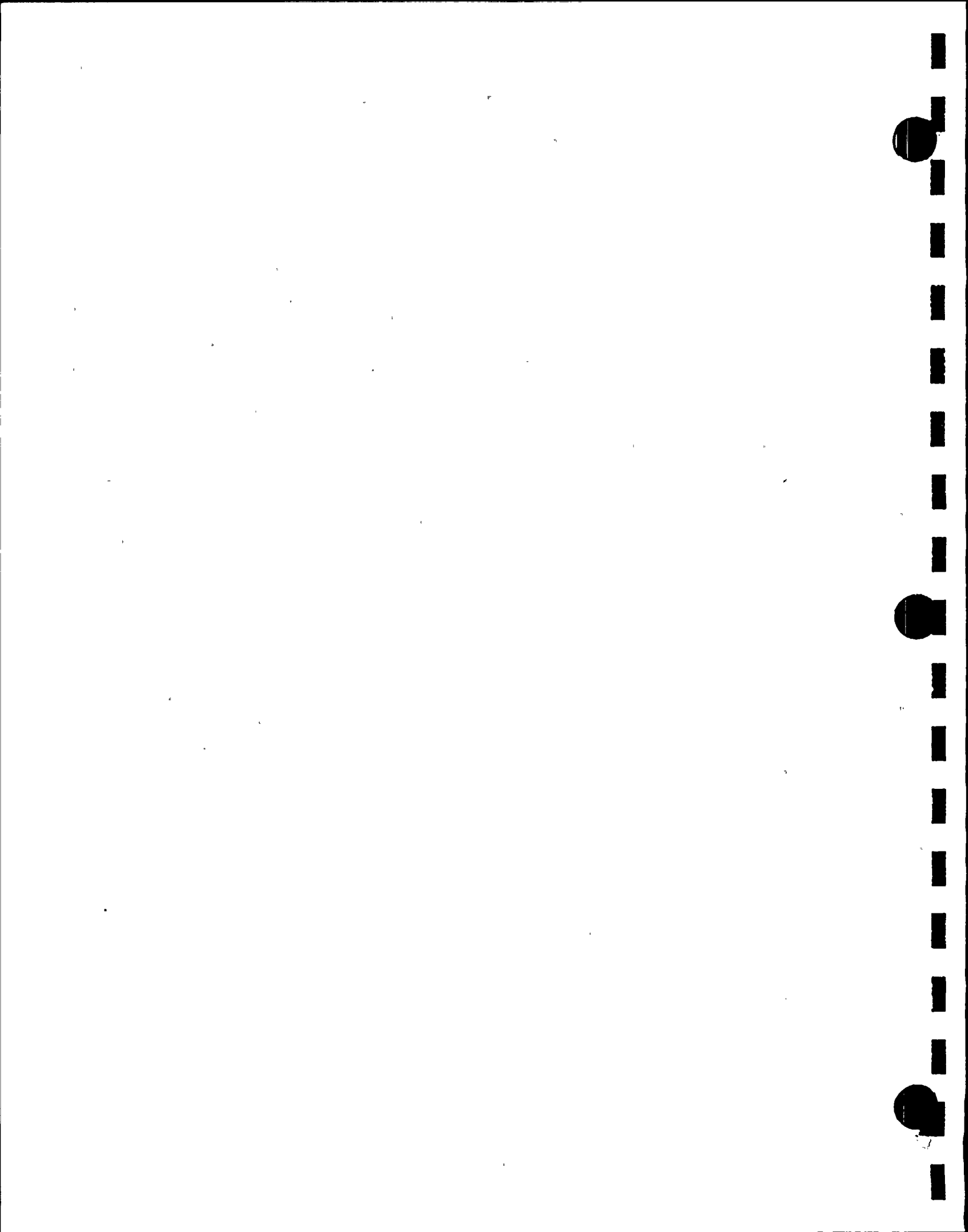




# AVERAGE VAPOR PRESSURE - VERIFICATION TEST

D.C. COOK - Unit 2, May 12, 1992





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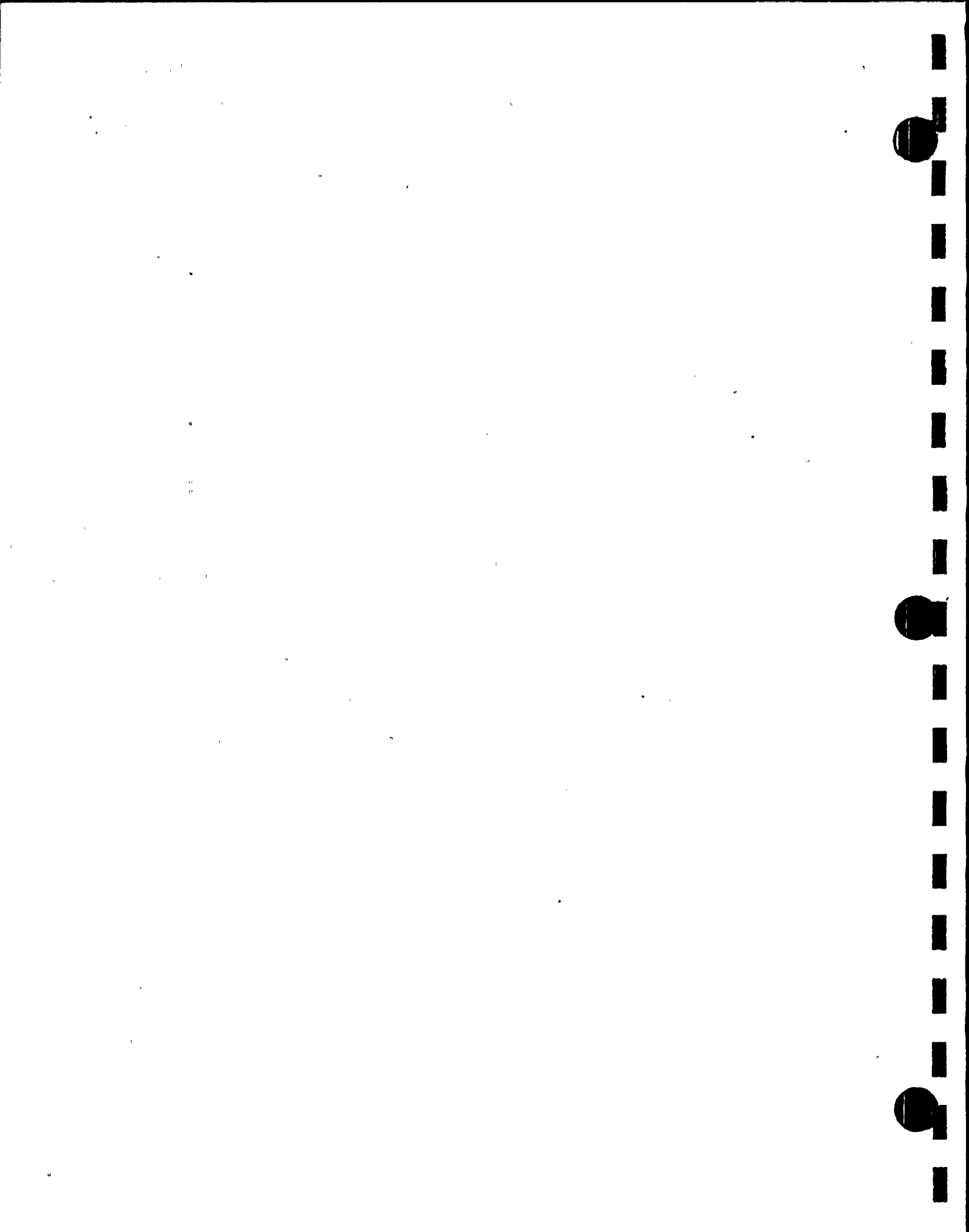
## ENVIRONMENT LISTING

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DATE - 06-05-1992

TIME - 14:32:33

REC NUM	DATE	TIME	TEMP	VAPOR PRESSURE	CORRECT. PRESSURE	RELATIVE HUMIDITY	AIR DENSITY	PSIA/HR VARIANCE
109	12	145	520.872	0.1078	26.6127	40.30	0.1379	0.00000
110	12	200	520.881	0.1078	26.6127	40.31	0.1379	-0.00018
111	12	215	520.907	0.1076	26.6125	40.18	0.1379	-0.00072
112	12	230	520.913	0.1073	26.6126	40.08	0.1379	0.00040
113	12	245	520.927	0.1070	26.6129	39.93	0.1379	0.00138
114	12	300	520.930	0.1065	26.6131	39.75	0.1379	0.00078
115	12	315	520.946	0.1067	26.6129	39.79	0.1379	-0.00069
116	12	330	520.961	0.1060	26.6136	39.52	0.1379	0.00265
117	12	345	520.946	0.1056	26.6138	39.40	0.1379	0.00074
118	12	400	520.990	0.1054	26.6137	39.26	0.1379	-0.00029
119	12	415	521.004	0.1051	26.6139	39.14	0.1379	0.00076
120	12	430	521.025	0.1052	26.6144	39.13	0.1379	0.00208
121	12	445	521.044	0.1051	26.6149	39.09	0.1379	0.00187
122	12	500	521.061	0.1055	26.6151	39.21	0.1379	0.00069
123	12	515	521.075	0.1054	26.6152	39.13	0.1379	0.00071
124	12	530	521.074	0.1053	26.6156	39.09	0.1379	0.00152
125	12	545	521.096	0.1051	26.6159	39.00	0.1379	0.00130
126	12	600	521.107	0.1049	26.6162	38.90	0.1379	0.00089
127	12	615	521.123	0.1048	26.6158	38.86	0.1379	-0.00156
128	12	630	521.133	0.1048	26.6158	38.84	0.1379	0.00003
129	12	645	521.146	0.1045	26.6161	38.70	0.1379	0.00134
130	12	700	521.160	0.1042	26.6162	38.56	0.1378	0.00016
131	12	715	521.181	0.1042	26.6157	38.56	0.1378	-0.00198



## Attachment 6J

\*\*\*\*\*  
DATE - 06-05-1992ENVIRONMENT LISTING  
ZONE - 1\*\*\*\*\*  
TIME - 14:32:35

REC NUM	DATE	TIME	TEMP	VAPOR PRESSURE	CORRECT. PRESSURE	RELATIVE HUMIDITY	AIR DENSITY	PSIA/HR VARIANCE
109	12	145	526.277	0.1321	26.5884	40.90	0.1364	0.00000
110	12	200	526.276	0.1323	26.5882	40.96	0.1364	-0.00083
111	12	215	526.285	0.1320	26.5880	40.83	0.1364	-0.00050
112	12	230	526.286	0.1315	26.5885	40.69	0.1364	0.00179
113	12	245	526.287	0.1313	26.5887	40.62	0.1364	0.00090
114	12	300	526.293	0.1301	26.5894	40.25	0.1364	0.00273
115	12	315	526.310	0.1307	26.5888	40.42	0.1364	-0.00249
116	12	330	526.317	0.1298	26.5897	40.11	0.1364	0.00388
117	12	345	526.309	0.1291	26.5904	39.92	0.1364	0.00258
118	12	400	526.309	0.1290	26.5900	39.87	0.1364	-0.00139
119	12	415	526.321	0.1288	26.5902	39.81	0.1364	0.00059
120	12	430	526.325	0.1284	26.5911	39.69	0.1364	0.00346
121	12	445	526.332	0.1284	26.5916	39.65	0.1364	0.00233
122	12	500	526.343	0.1285	26.5920	39.68	0.1364	0.00141
123	12	515	526.352	0.1283	26.5922	39.60	0.1364	0.00098
124	12	530	526.346	0.1280	26.5930	39.51	0.1364	0.00317
125	12	545	526.357	0.1273	26.5937	39.28	0.1364	0.00278
126	12	600	526.365	0.1270	26.5940	39.20	0.1364	0.00094
127	12	615	526.378	0.1269	26.5936	39.15	0.1364	0.00162
128	12	630	526.379	0.1267	26.5938	39.09	0.1364	0.00085
129	12	645	526.388	0.1264	26.5941	38.97	0.1364	0.00130
130	12	700	526.400	0.1256	26.5944	38.72	0.1364	0.00108
131	12	715	526.414	0.1256	26.5944	38.69	0.1364	0.00014

## Attachment 6J

\*\*\*\*\*  
DATE - 06-05-1992ENVIRONMENT LISTING  
ZONE - 2\*\*\*\*\*  
TIME - 14:32:36

REC NUM	DATE	TIME	TEMP	VAPOR PRESSURE	CORRECT. PRESSURE	RELATIVE HUMIDITY	AIR DENSITY	PSIA/HR VARIANCE
109	12	145	529.132	0.1071	26.6144	30.05	0.1358	0.00000
110	12	200	529.129	0.1067	26.6148	29.94	0.1358	0.00153
111	12	215	529.165	0.1060	26.6155	29.72	0.1358	0.00269
112	12	230	529.151	0.1057	26.6153	29.63	0.1358	-0.00055
113	12	245	529.159	0.1050	26.6160	29.43	0.1358	0.00269
114	12	300	529.127	0.1052	26.6158	29.53	0.1358	-0.00096
115	12	315	529.115	0.1048	26.6162	29.42	0.1358	0.00171
116	12	330	529.117	0.1042	26.6168	29.25	0.1358	0.00241
117	12	345	529.058	0.1038	26.6167	29.21	0.1358	-0.00054
118	12	400	529.172	0.1035	26.6170	28.99	0.1358	0.00146
119	12	415	529.157	0.1030	26.6175	28.87	0.1358	0.00193
120	12	430	529.179	0.1027	26.6183	28.76	0.1358	0.00324
121	12	445	529.176	0.1027	26.6188	28.77	0.1358	0.00198
122	12	500	529.165	0.1030	26.6190	28.87	0.1358	0.00072
123	12	515	529.144	0.1023	26.6197	28.69	0.1358	0.00287
124	12	530	529.109	0.1020	26.6200	28.63	0.1358	0.00131
125	12	545	529.113	0.1019	26.6206	28.60	0.1358	0.00240
126	12	600	529.106	0.1012	26.6213	28.43	0.1358	0.00248
127	12	615	529.096	0.1009	26.6211	28.34	0.1358	-0.00059
128	12	630	529.101	0.1011	26.6209	28.40	0.1358	0.00095
129	12	645	529.093	0.1002	26.6218	28.14	0.1358	0.00377
130	12	700	529.090	0.1005	26.6215	28.23	0.1358	-0.00116
131	12	715	529.107	0.1005	26.6205	28.21	0.1358	-0.00402





## Attachment 6J

\*\*\*\*\*  
DATE - 06-05-1992ENVIRONMENT LISTING  
ZONE - 3\*\*\*\*\*  
TIME - 14:32:37

REC NUM	DATE	TIME	TEMP	VAPOR PRESSURE	CORRECT. PRESSURE	RELATIVE HUMIDITY	AIR DENSITY	PSIA/HR VARIANCE
109	12	145	480.442	0.0406	26.6774	77.56	0.1499	0.00000
110	12	200	480.519	0.0408	26.6772	77.68	0.1499	-0.00086
111	12	215	480.594	0.0413	26.6757	78.32	0.1498	-0.00594
112	12	230	480.665	0.0416	26.6754	78.55	0.1498	-0.00104
113	12	245	480.744	0.0414	26.6756	78.01	0.1498	0.00050
114	12	300	480.811	0.0415	26.6755	77.82	0.1498	-0.00012
115	12	315	480.886	0.0415	26.6755	77.60	0.1497	-0.00012
116	12	330	480.961	0.0414	26.6756	77.17	0.1497	0.00032
117	12	345	481.012	0.0415	26.6750	77.08	0.1497	-0.00222
118	12	400	481.087	0.0414	26.6751	76.62	0.1497	0.00040
119	12	415	481.171	0.0412	26.6748	76.02	0.1496	-0.00136
120	12	430	481.266	0.0424	26.6746	77.77	0.1496	-0.00056
121	12	445	481.375	0.0424	26.6746	77.37	0.1496	-0.00002
122	12	500	481.478	0.0432	26.6748	78.52	0.1495	0.00063
123	12	515	481.596	0.0438	26.6742	79.15	0.1495	-0.00237
124	12	530	481.687	0.0443	26.6737	79.79	0.1495	-0.00217
125	12	545	481.791	0.0450	26.6730	80.65	0.1494	-0.00281
126	12	600	481.858	0.0453	26.6727	80.95	0.1494	-0.00124
127	12	615	481.941	0.0458	26.6722	81.40	0.1494	-0.00175
128	12	630	482.001	0.0459	26.6721	81.33	0.1494	-0.00034
129	12	645	482.074	0.0463	26.6717	81.82	0.1493	-0.00176
130	12	700	482.132	0.0461	26.6719	81.29	0.1493	0.00069
131	12	715	482.190	0.0465	26.6705	81.62	0.1493	-0.00526



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## SENSOR LIST

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RECORD NUMBER - 109

DATE - 05/12

TIME - 1:45:11

## PRESSURES

1 -	26.72400	2 -	26.71900
3 -	26.72000	4 -	26.71600
5 -	26.72200	6 -	26.71900

AVG PRESSURE 26.72046

## RTD/S

1	71.813	2	69.038	3	65.466	4	65.593
5	65.012	6	66.623	7	66.723	8	66.991
9	64.982	10	65.119	11	65.718	12	65.144
13	75.018	14	65.821	15	24.897	16	26.190
17	26.882	18	28.527	19	18.268	20	19.279
21	17.259	22	73.091	23	70.472	24	69.667
25	71.220	26	70.583	27	61.850	28	65.671
29	66.064	30	67.474	31	62.591	32	64.523
33	60.758	34	69.163	35	70.234	36	70.620
37	69.826	38	67.952	39	69.110	40	66.801
41	69.157	42	71.260	43	69.387	44	67.575
45	68.887	46	68.180	INACT	70.608	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.202

## DEW CELLS

1	44.379	2	38.549	3	39.083	4	18.881
5	14.147	6	38.134	7	36.487	INACT	0.000
INACT	14.347	INACT	68.948	INACT	19.448	INACT	69.738
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.908

AMBIENT PRESS - 14.348

VAPOR PRESS - .1077587

DRY PRESSURE - 26.6127

FLOWS - 0 3.705

TOTAL FLOW 3.705



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## SENSOR LIST

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RECORD NUMBER - 110

DATE - 05/12

TIME - 2: 0:11

## PRESSURES

1 -	26.72400	2 -	26.71900
3 -	26.72000	4 -	26.71600
5 -	26.72200	6 -	26.71900

AVG PRESSURE 26.72046

## RTD/S

1	71.833	2	69.038	3	65.478	4	65.593
5	65.024	6	66.603	7	66.732	8	67.003
9	64.962	10	65.076	11	65.718	12	65.156
13	75.007	14	65.798	15	25.049	16	26.374
17	27.140	18	28.774	19	18.302	20	19.291
21	17.282	22	73.103	23	70.440	24	69.658
25	71.211	26	70.583	27	61.850	28	65.659
29	66.053	30	67.463	31	62.591	32	64.686
33	60.692	34	69.154	35	70.202	36	70.577
37	69.804	38	67.984	39	69.121	40	66.790
41	69.168	42	71.283	43	69.378	44	67.575
45	68.887	46	68.180	INACT	70.266	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.211

## DEW CELLS

1	44.472	2	38.471	3	39.080	4	18.629
5	14.403	6	38.040	7	36.397	INACT	0.000
INACT	14.346	INACT	68.948	INACT	19.463	INACT	69.716
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.919

AMBIENT PRESS - 14.348

VAPOR PRESS - .1078055

DRY PRESSURE - 26.61265

FLOWS - 0 3.705

TOTAL FLOW 3.705



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## SENSOR LIST

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RECORD NUMBER - 111

DATE - 05/12

TIME - 2:15:11

## PRESSURES

1 -	26.72400	2 -	26.71900
3 -	26.71900	4 -	26.71500
5 -	26.72200	6 -	26.71800

AVG PRESSURE

26.72004

## RTD/S

1	71.867	2	69.047	3	65.466	4	65.570
5	65.024	6	66.603	7	66.732	8	67.014
9	64.962	10	65.076	11	65.695	12	65.156
13	75.093	14	65.918	15	25.231	16	26.578
17	27.409	18	29.012	19	18.313	20	19.313
21	17.290	22	73.080	23	70.472	24	69.678
25	71.220	26	70.583	27	61.829	28	65.648
29	66.042	30	67.452	31	62.591	32	65.097
33	60.649	34	69.132	35	70.245	36	70.597
37	69.826	38	67.975	39	69.142	40	66.779
41	69.157	42	71.272	43	69.366	44	67.575
45	68.876	46	68.191	INACT	69.768	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.237

## DEW CELLS

1	44.472	2	38.281	3	38.906	4	19.238
5	14.492	6	37.957	7	36.222	INACT	0.000
INACT	14.346	INACT	68.914	INACT	19.465	INACT	69.696
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.863

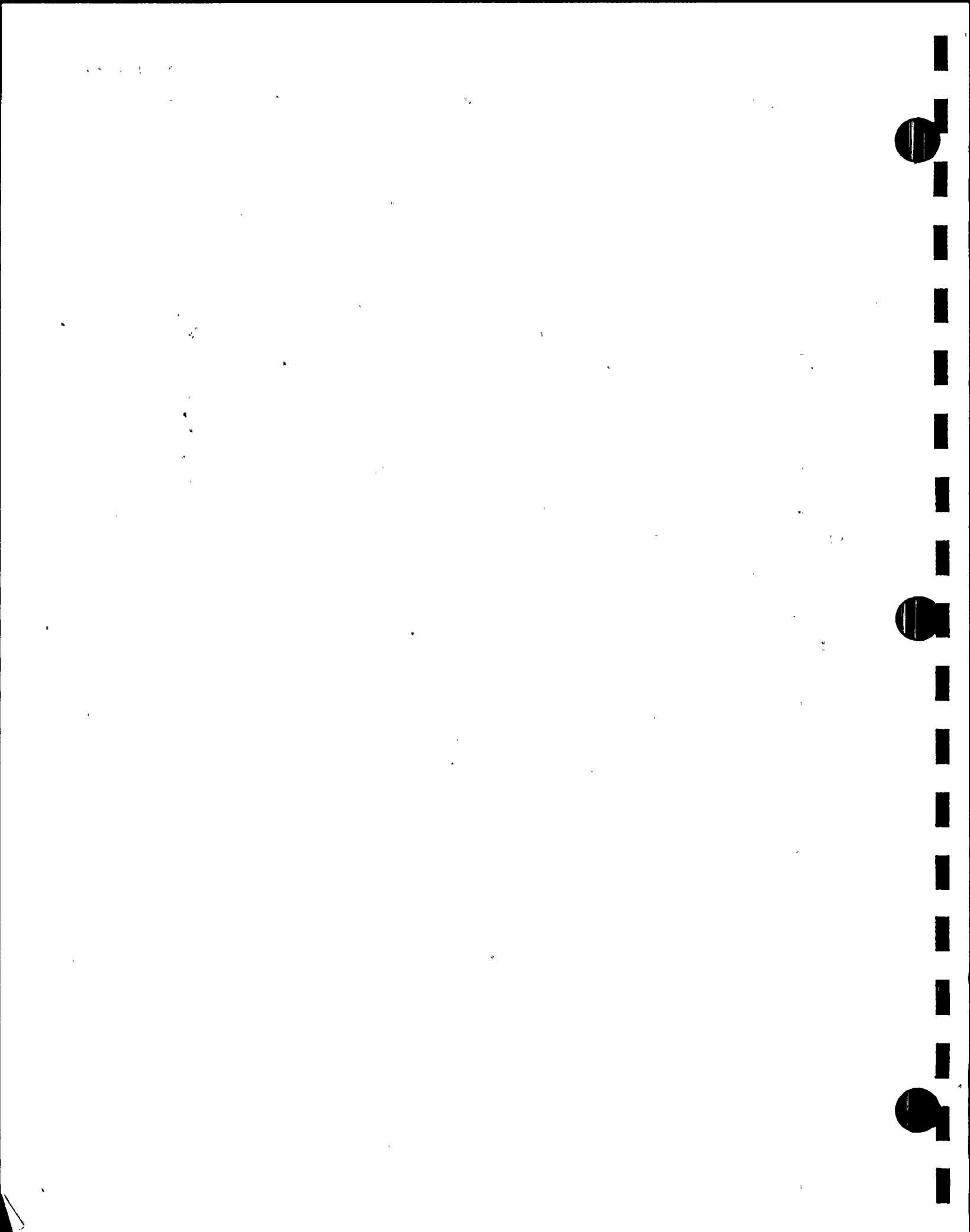
AMBIENT PRESS - 14.348

VAPOR PRESS - .1075658

DRY PRESSURE - 26.61247

FLOWS - 0 3.705

TOTAL FLOW 3.705





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## SENSOR LIST

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RECORD NUMBER - 112

DATE - 05/12

TIME - 2:30:11

## PRESSURES

1 -	26.72400	2 -	26.71800
3 -	26.71900	4 -	26.71500
5 -	26.72200	6 -	26.71800

AVG PRESSURE 26.71989

## RTD/S

1	71.899	2	69.069	3	65.455	4	65.559
5	65.046	6	66.614	7	66.732	8	67.014
9	64.971	10	65.064	11	65.686	12	65.144
13	75.018	14	65.863	15	25.392	16	26.751
17	27.645	18	29.237	19	18.333	20	19.333
21	17.302	22	73.080	23	70.417	24	69.667
25	71.274	26	70.572	27	61.841	28	65.639
29	65.998	30	67.463	31	62.580	32	65.237
33	60.618	34	69.163	35	70.202	36	70.554
37	69.783	38	67.984	39	69.056	40	66.767
41	69.157	42	71.283	43	69.355	44	67.564
45	68.876	46	68.180	INACT	69.595	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.243

## DEW CELLS

1	44.380	2	38.212	3	38.814	4	19.678
5	14.492	6	37.869	7	36.136	INACT	0.000
INACT	14.347	INACT	68.914	INACT	19.465	INACT	69.685
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.805

AMBIENT PRESS - 14.348

VAPOR PRESS - .1073198

DRY PRESSURE - 26.61257

FLOWS - 0 3.705

TOTAL FLOW 3.705

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## SENSOR LIST

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RECORD NUMBER - 113

DATE - 05/12

TIME - 2:45:11

## PRESSURES

1 -	26.72400	2 -	26.71800
3 -	26.71900	4 -	26.71500
5 -	26.72200	6 -	26.71800

AVG PRESSURE 26.71989

## RTD/S

1	71.933	2	69.081	3	65.466	4	65.582
5	65.046	6	66.623	7	66.732	8	67.014
9	64.951	10	65.076	11	65.686	12	65.090
13	75.093	14	65.798	15	25.619	16	26.902
17	27.883	18	29.453	19	18.367	20	19.356
21	17.324	22	73.103	23	70.397	24	69.667
25	71.242	26	70.572	27	61.807	28	65.648
29	66.030	30	67.452	31	62.591	32	65.215
33	60.672	34	69.120	35	70.180	36	70.597
37	69.826	38	67.964	39	69.088	40	66.767
41	69.157	42	71.229	43	69.355	44	67.564
45	68.876	46	68.202	INACT	69.084	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.257

## DEW CELLS

1	44.383	2	38.060	3	38.728	4	19.674
5	14.406	6	37.777	7	35.961	INACT	0.000
INACT	14.348	INACT	68.894	INACT	19.458	INACT	69.662
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.723

AMBIENT PRESS - 14.348

VAPOR PRESS - .1069737

DRY PRESSURE - 26.61292

FLOWS - 0 3.706

TOTAL FLOW 3.706



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## SENSOR LIST

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RECORD NUMBER - 114

DATE - 05/12

TIME - 3: 0:11

## PRESSURES

1 -	26.72400	2 -	26.71800
3 -	26.71900	4 -	26.71500
5 -	26.72100	6 -	26.71800

AVG PRESSURE 26.71960

## RTD/S

1	71.969	2	69.106	3	65.450	4	65.575
5	65.051	6	66.619	7	66.748	8	67.018
9	64.944	10	65.058	11	65.691	12	65.138
13	75.055	14	65.802	15	25.731	16	27.045
17	28.083	18	29.738	19	18.392	20	19.376
21	17.333	22	73.080	23	70.440	24	69.658
25	71.231	26	70.560	27	61.829	28	65.639
29	66.030	30	67.452	31	62.580	32	64.534
33	60.618	34	69.197	35	70.171	36	70.597
37	69.858	38	67.984	39	69.088	40	66.767
41	69.146	42	71.260	43	69.344	44	67.541
45	68.853	46	68.169	INACT	68.988	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.260

## DEW CELLS

1	44.032	2	38.022	3	38.644	4	19.940
5	14.318	6	37.682	7	36.048	INACT	0.000
INACT	14.346	INACT	68.852	INACT	19.456	INACT	69.631
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.609

AMBIENT PRESS - 14.348

VAPOR PRESS - .1064942

DRY PRESSURE - 26.61311

FLOWS - 0 3.706

TOTAL FLOW 3.706



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## SENSOR LIST

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RECORD NUMBER - 115

DATE - 05/12

TIME - 3:15:11

## PRESSURES

1	-	26.72400	2	-	26.71800
3	-	26.71900	4	-	26.71500
5	-	26.72100	6	-	26.71800

AVG PRESSURE 26.71960

## RTD/S

1	72.019	2	69.124	3	65.435	4	65.559
5	65.055	6	66.646	7	66.777	8	67.046
9	64.951	10	65.076	11	65.695	12	65.133
13	74.984	14	65.852	15	25.942	16	27.225
17	28.303	18	29.972	19	18.421	20	19.387
21	17.355	22	73.114	23	70.386	24	69.667
25	71.254	26	70.560	27	61.829	28	65.628
29	66.030	30	67.452	31	62.569	32	64.546
33	60.649	34	69.261	35	70.171	36	70.534
37	69.792	38	67.964	39	69.110	40	66.752
41	69.141	42	71.290	43	69.339	44	67.560
45	68.860	46	68.187	INACT	68.684	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.276

## DEW CELLS

1	44.383	2	37.778	3	38.462	4	20.209
5	14.228	6	37.511	7	35.958	INACT	0.000
INACT	14.348	INACT	68.860	INACT	19.461	INACT	69.620
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.651

AMBIENT PRESS - 14.348

VAPOR PRESS - .1066692

DRY PRESSURE - 26.61294

FLOWS - 0 3.706

TOTAL FLOW 3.706



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## SENSOR LIST

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RECORD NUMBER - 116

DATE - 05/12

TIME - 3:30:11

## PRESSURES

1 -	26.72400	2 -	26.71800
3 -	26.71900	4 -	26.71500
5 -	26.72100	6 -	26.71800

AVG PRESSURE 26.71960

## RTD/S

1	72.050	2	69.155	3	65.446	4	65.548
5	65.089	6	66.634	7	66.786	8	67.057
9	64.939	10	65.064	11	65.695	12	65.113
13	75.093	14	65.821	15	26.104	16	27.364
17	28.519	18	30.187	19	18.463	20	19.421
21	17.367	22	73.103	23	70.365	24	69.667
25	71.263	26	70.560	27	61.786	28	65.639
29	66.019	30	67.452	31	62.580	32	64.274
33	60.692	34	69.252	35	70.234	36	70.534
37	69.838	38	67.941	39	69.088	40	66.747
41	69.146	42	71.260	43	69.344	44	67.564
45	68.864	46	68.158	INACT	68.443	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.291

## DEW CELLS

1	44.118	2	37.690	3	38.375	4	20.478
5	14.062	6	37.511	7	35.785	INACT	0.000
INACT	14.348	INACT	68.840	INACT	19.461	INACT	69.631
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.493

AMBIENT PRESS - 14.348

VAPOR PRESS - .1060059

DRY PRESSURE - 26.6136

FLOWS - 0 3.706

TOTAL FLOW 3.706





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## SENSOR LIST

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RECORD NUMBER - 117

DATE - 05/12

TIME - 3:45:11

## PRESSURES

1 -	26.72300	2 -	26.71800
3 -	26.71800	4 -	26.71500
5 -	26.72100	6 -	26.71800

AVG PRESSURE 26.71939

## RTD/S

1	72.055	2	69.151	3	65.417	4	65.575
5	65.071	6	66.628	7	66.770	8	67.041
9	64.944	10	65.058	11	65.668	12	65.106
13	75.021	14	65.848	15	26.301	16	27.521
17	28.674	18	30.419	19	18.457	20	19.414
21	17.371	22	73.087	23	70.370	24	69.662
25	71.258	26	70.545	27	61.739	28	65.644
29	66.005	30	67.438	31	62.564	32	63.470
33	60.536	34	69.247	35	70.209	36	70.529
37	69.833	38	67.927	39	69.063	40	66.731
41	69.153	42	71.247	43	69.330	44	67.548
45	68.860	46	68.164	INACT	67.847	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.276

## DEW CELLS

1	43.943	2	37.664	3	38.286	4	20.576
5	14.059	6	37.426	7	35.696	INACT	0.000
INACT	14.348	INACT	68.814	INACT	19.466	INACT	69.573
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.397

AMBIENT PRESS - 14.348

VAPOR PRESS - .1056051

DRY PRESSURE - 26.61378

FLOWS - 0 3.706

TOTAL FLOW 3.706

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## SENSOR LIST

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RECORD NUMBER - 118

DATE - 05/12

TIME - 4: 0:11

## PRESSURES

1	-	26.72300	2	-	26.71800
3	-	26.71800	4	-	26.71500
5	-	26.72100	6	-	26.71700

AVG PRESSURE 26.71910

## RTD/S

1	72.084	2	69.167	3	65.446	4	65.527
5	65.078	6	66.634	7	66.777	8	67.036
9	64.917	10	65.053	11	65.663	12	65.101
13	75.136	14	65.809	15	26.589	16	27.699
17	28.873	18	30.607	19	18.475	20	19.436
21	17.382	22	73.076	23	70.392	24	69.653
25	71.249	26	70.536	27	61.791	28	65.612
29	66.005	30	67.438	31	62.564	32	65.405
33	60.602	34	69.236	35	70.143	36	70.584
37	69.822	38	67.979	39	69.063	40	66.747
41	69.157	42	71.251	43	69.312	44	67.532
45	68.864	46	68.158	INACT	69.307	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.320

## DEW CELLS

1	44.032	2	37.411	3	38.115	4	21.269
5	13.704	6	37.331	7	35.608	INACT	0.000
INACT	14.349	INACT	68.787	INACT	19.470	INACT	69.566
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.346

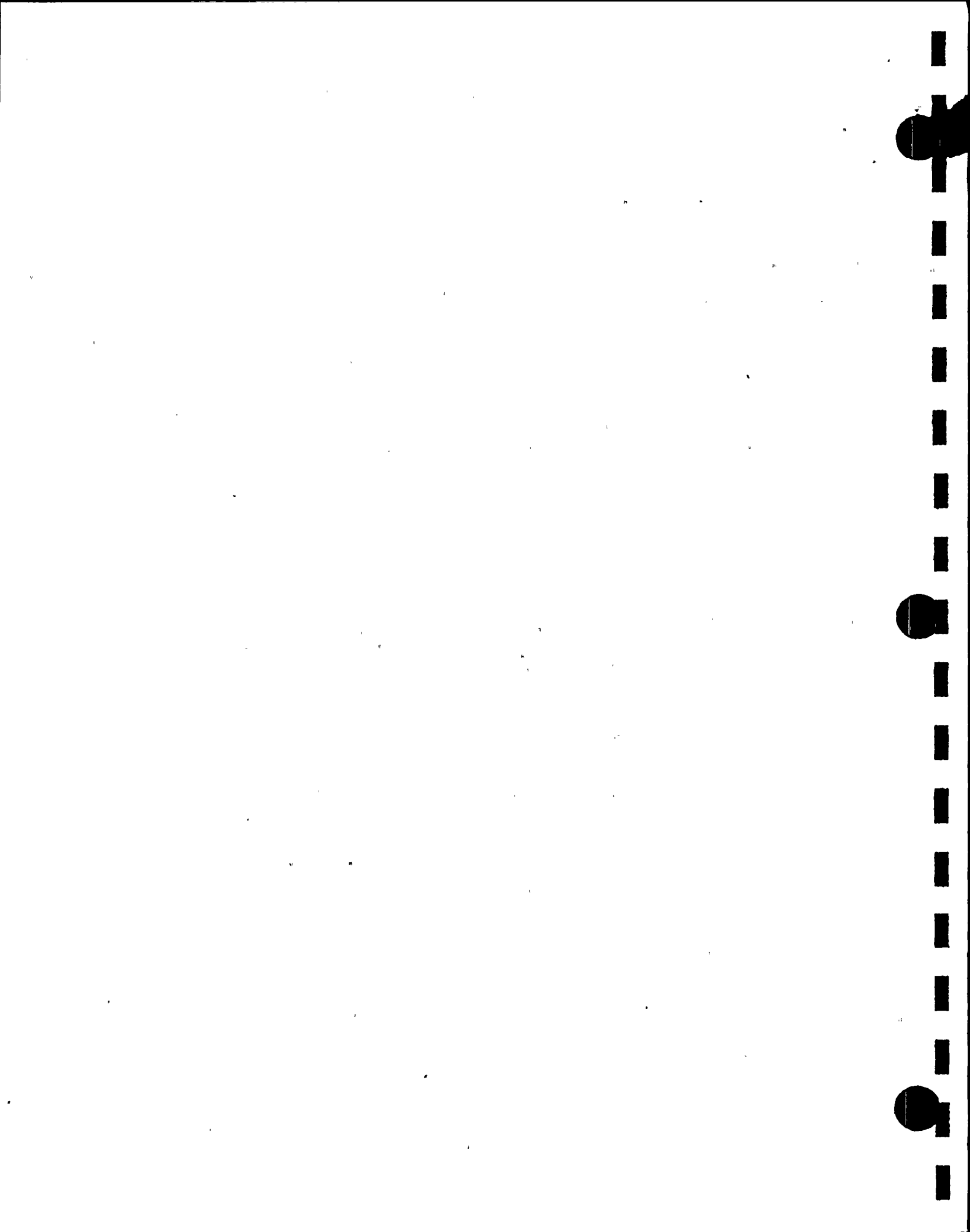
AMBIENT PRESS - 14.348

VAPOR PRESS - .1053934

DRY PRESSURE - 26.61371

FLOWS - 0 3.707

TOTAL FLOW 3.707



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## SENSOR LIST

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RECORD NUMBER - 119

DATE - 05/12

TIME - 4:15:11

## PRESSURES

1 -	26.72300	2 -	26.71800
3 -	26.71800	4 -	26.71400
5 -	26.72100	6 -	26.71700

AVG PRESSURE 26.71903

## RTD/S

1	72.134	2	69.196	3	65.450	4	65.534
5	65.085	6	66.653	7	66.781	8	67.052
9	64.912	10	65.026	11	65.670	12	65.120
13	75.089	14	65.793	15	26.885	16	27.910
17	29.127	18	30.834	19	18.490	20	19.459
21	17.394	22	73.076	23	70.361	24	69.653
25	71.249	26	70.545	27	61.771	28	65.589
29	65.994	30	67.438	31	62.553	32	65.482
33	60.656	34	69.181	35	70.143	36	70.561
37	69.799	38	67.948	39	69.051	40	66.742
41	69.141	42	71.201	43	69.308	44	67.548
45	68.871	46	68.164	INACT	68.653	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.334

## DEW CELLS

1	43.943	2	37.428	3	38.204	4	20.997
5	13.704	6	37.062	7	35.519	INACT	0.000
INACT	14.349	INACT	68.776	INACT	19.465	INACT	69.555
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.284

AMBIENT PRESS - 14.348

VAPOR PRESS - .1051336

DRY PRESSURE - 26.6139

FLOWS - 0 3.706

TOTAL FLOW 3.706



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## SENSOR LIST

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RECORD NUMBER - 120

DATE - 05/12

TIME - 4:30:11

## PRESSURES

1 -	26.72400	2 -	26.71800
3 -	26.71900	4 -	26.71500
5 -	26.72100	6 -	26.71800

AVG PRESSURE 26.71960

## RTD/S

1	72.159	2	69.210	3	65.412	4	65.516
5	65.110	6	66.668	7	66.809	8	67.079
9	64.928	10	65.030	11	65.663	12	65.079
13	75.148	14	65.755	15	27.224	16	28.184
17	29.412	18	31.124	19	18.506	20	19.459
21	17.414	22	73.076	23	70.338	24	69.653
25	71.249	26	70.513	27	61.748	28	65.601
29	65.983	30	67.438	31	62.575	32	65.687
33	60.613	34	69.267	35	70.209	36	70.518
37	69.779	38	67.927	39	69.051	40	66.713
41	69.137	42	71.206	43	69.301	44	67.532
45	68.876	46	68.169	INACT	67.802	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.355

## DEW CELLS

1	43.943	2	37.244	3	38.026	4	22.049
5	14.059	6	37.068	7	35.427	INACT	0.000
INACT	14.348	INACT	68.771	INACT	19.461	INACT	69.562
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.296

AMBIENT PRESS - 14.348

VAPOR PRESS - .1051832

DRY PRESSURE - 26.61442

FLOWS - 0 3.706

TOTAL FLOW 3.706





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## SENSOR LIST

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RECORD NUMBER - 121

DATE - 05/12

TIME - 4:45:11

## PRESSURES

1 -	26.72400	2 -	26.71900
3 -	26.71900	4 -	26.71500
5 -	26.72200	6 -	26.71800

AVG PRESSURE 26.72004

## RTD/S

1	72.193	2	69.232	3	65.423	4	65.516
5	65.110	6	66.668	7	66.797	8	67.079
9	64.928	10	65.021	11	65.675	12	65.101
13	75.136	14	65.789	15	27.655	16	28.453
17	29.671	18	31.386	19	18.537	20	19.490
21	17.436	22	73.066	23	70.361	24	69.662
25	71.215	26	70.536	27	61.771	28	65.589
29	65.994	30	67.438	31	62.564	32	65.654
33	60.591	34	69.181	35	70.175	36	70.539
37	69.876	38	67.937	39	69.008	40	66.713
41	69.126	42	71.197	43	69.289	44	67.541
45	68.876	46	68.158	INACT	66.891	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.373

## DEW CELLS

1	43.943	2	37.256	3	37.944	4	22.488
5	13.881	6	37.064	7	35.429	INACT	0.000
INACT	14.348	INACT	68.722	INACT	19.464	INACT	69.513
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.287

AMBIENT PRESS - 14.348

VAPOR PRESS - .1051458

DRY PRESSURE - 26.61489

FLOWS - 0 3.706

TOTAL FLOW 3.706



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## SENSOR LIST

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RECORD NUMBER - 122

DATE - 05/12

TIME - 5: 0:11

## PRESSURES

1 -	26.72500	2 -	26.71900
3 -	26.72000	4 -	26.71600
5 -	26.72200	6 -	26.71900

AVG PRESSURE 26.72060

## RTD/S

1	72.218	2	69.237	3	65.417	4	65.543
5	65.114	6	66.682	7	66.813	8	67.095
9	64.921	10	65.015	11	65.679	12	65.117
13	75.109	14	65.793	15	28.026	16	28.727
17	30.010	18	31.653	19	18.544	20	19.510
21	17.459	22	73.066	23	70.349	24	69.662
25	71.226	26	70.524	27	61.705	28	65.580
29	65.983	30	67.416	31	62.564	32	65.762
33	60.656	34	69.204	35	70.132	36	70.529
37	69.810	38	67.927	39	69.020	40	66.693
41	69.126	42	71.217	43	69.289	44	67.532
45	68.876	46	68.127	INACT	66.734	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.391

## DEW CELLS

1	44.032	2	37.244	3	37.852	4	23.023
5	14.229	6	37.062	7	35.522	INACT	0.000
INACT	14.348	INACT	68.706	INACT	19.472	INACT	69.508
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.382

AMBIENT PRESS - 14.348

VAPOR PRESS - .1055406

DRY PRESSURE - 26.61506

FLOWS - 0 3.707

TOTAL FLOW 3.707



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## SENSOR LIST

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RECORD NUMBER - 123

DATE - 05/12

TIME - 5:15:11

## PRESSURES

1 -	26.72500	2 -	26.71900
3 -	26.72000	4 -	26.71600
5 -	26.72200	6 -	26.71900

AVG PRESSURE 26.72060

## RTD/S

1	72.247	2	69.264	3	65.401	4	65.527
5	65.121	6	66.677	7	66.831	8	67.100
9	64.917	10	65.021	11	65.663	12	65.101
13	75.093	14	65.852	15	28.410	16	29.012
17	30.329	18	31.946	19	18.582	20	19.544
21	17.490	22	73.076	23	70.381	24	69.653
25	71.238	26	70.524	27	61.694	28	65.580
29	65.983	30	67.416	31	62.553	32	65.136
33	60.676	34	69.267	35	70.143	36	70.529
37	69.842	38	67.937	39	69.031	40	66.709
41	69.141	42	71.235	43	69.296	44	67.537
45	68.882	46	68.133	INACT	66.297	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.405

## DEW CELLS

1	43.941	2	37.152	3	37.941	4	23.551
5	14.406	6	36.892	7	35.345	INACT	0.000
INACT	14.348	INACT	68.680	INACT	19.465	INACT	69.459
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.339

AMBIENT PRESS - 14.348

VAPOR PRESS - .1053647

DRY PRESSURE - 26.61524

FLOWS - 0 3.706

TOTAL FLOW 3.706

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## SENSOR LIST

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RECORD NUMBER - 124

DATE - 05/12

TIME - 5:30:11

## PRESSURES

1	-	26.72500	2	-	26.71900
3	-	26.72000	4	-	26.71600
5	-	26.72300	6	-	26.71900

AVG PRESSURE 26.72089

## RTD/S

1	72.261	2	69.280	3	65.405	4	65.532
5	65.125	6	66.682	7	66.836	8	67.104
9	64.933	10	65.046	11	65.657	12	65.083
13	75.109	14	65.728	15	28.715	16	29.277
17	30.549	18	32.158	19	18.598	20	19.587
21	17.501	22	73.076	23	70.361	24	69.662
25	71.226	26	70.524	27	61.694	28	65.589
29	65.971	30	67.416	31	62.553	32	64.638
33	60.516	34	69.159	35	70.220	36	70.529
37	69.799	38	67.948	39	69.020	40	66.693
41	69.114	42	71.197	43	69.258	44	67.532
45	68.864	46	68.138	INACT	66.549	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.404

## DEW CELLS

1	43.943	2	37.051	3	37.757	4	23.987
5	14.584	6	36.892	7	35.249	INACT	0.000
INACT	14.347	INACT	68.664	INACT	19.473	INACT	69.455
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.317

AMBIENT PRESS - 14.348

VAPOR PRESS - .1052694

DRY PRESSURE - 26.61562

FLOWS - 0 3.707

TOTAL FLOW 3.707



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## SENSOR LIST

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RECORD NUMBER - 125

DATE - 05/12

TIME - 5:45:11

## PRESSURES

1	-	26.72500	2	-	26.72000
3	-	26.72000	4	-	26.71600
5	-	26.72300	6	-	26.71900

AVG PRESSURE 26.72104

## RTD/S

1	72.295	2	69.291	3	65.396	4	65.543
5	65.137	6	66.682	7	66.836	8	67.116
9	64.901	10	65.026	11	65.668	12	65.083
13	75.120	14	65.802	15	28.996	16	29.513
17	30.770	18	32.409	19	18.641	20	19.618
21	17.564	22	73.066	23	70.349	24	69.653
25	71.215	26	70.490	27	61.694	28	65.580
29	65.983	30	67.427	31	62.553	32	64.541
33	60.570	34	69.267	35	70.198	36	70.486
37	69.842	38	67.927	39	68.997	40	66.697
41	69.141	42	71.201	43	69.276	44	67.528
45	68.882	46	68.164	INACT	66.350	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.426

## DEW CELLS

1	43.763	2	36.968	3	37.672	4	24.253
5	14.931	6	36.718	7	35.252	INACT	0.000
INACT	14.347	INACT	68.637	INACT	19.476	INACT	69.428
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.273

AMBIENT PRESS - 14.348

VAPOR PRESS - .1050889

DRY PRESSURE - 26.61595

FLOWS - 0 3.707

TOTAL FLOW 3.707





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## SENSOR LIST

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RECORD NUMBER - 126

DATE - 05/12

TIME - 6: 0:11

## PRESSURES

1 -	26.72500	2 -	26.72000
3 -	26.72000	4 -	26.71600
5 -	26.72300	6 -	26.71900

AVG PRESSURE 26.72104

## RTD/S

1	72.315	2	69.314	3	65.396	4	65.554
5	65.148	6	66.673	7	66.856	8	67.127
9	64.912	10	65.035	11	65.645	12	65.083
13	75.109	14	65.782	15	29.157	16	29.718
17	30.923	18	32.585	19	18.641	20	19.661
21	17.586	22	73.066	23	70.370	24	69.662
25	71.281	26	70.513	27	61.739	28	65.601
29	65.951	30	67.427	31	62.564	32	64.638
33	60.613	34	69.193	35	70.220	36	70.464
37	69.779	38	67.927	39	69.008	40	66.688
41	69.153	42	71.181	43	69.265	44	67.528
45	68.860	46	68.153	INACT	66.274	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.437

## DEW CELLS

1	43.767	2	36.798	3	37.584	4	24.516
5	15.022	6	36.708	7	35.071	INACT	0.000
INACT	14.349	INACT	68.622	INACT	19.469	INACT	69.392
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.220

AMBIENT PRESS - 14.348

VAPOR PRESS - .104867

DRY PRESSURE - 26.61617

FLOWS - 0 3.707

TOTAL FLOW 3.707



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## SENSOR LIST

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RECORD NUMBER - 127

DATE - 05/12

TIME - 6:15:11

## PRESSURES

1 -	26.72500	2 -	26.71900
3 -	26.72000	4 -	26.71600
5 -	26.72200	6 -	26.71900

AVG PRESSURE 26.72060

## RTD/S

1	72.356	2	69.330	3	65.412	4	65.548
5	65.164	6	66.689	7	66.874	8	67.134
9	64.928	10	65.053	11	65.663	12	65.079
13	75.116	14	65.789	15	29.368	16	29.886
17	31.094	18	32.788	19	18.688	20	19.694
21	17.629	22	73.076	23	70.370	24	69.662
25	71.269	26	70.502	27	61.771	28	65.569
29	65.960	30	67.416	31	62.553	32	64.552
33	60.622	34	69.236	35	70.123	36	70.464
37	69.756	38	67.894	39	69.031	40	66.688
41	69.164	42	71.224	43	69.276	44	67.537
45	68.871	46	68.153	INACT	65.964	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.453

## DEW CELLS

1	43.767	2	36.689	3	37.584	4	24.335
5	15.377	6	36.622	7	34.983	INACT	0.000
INACT	14.349	INACT	68.610	INACT	19.464	INACT	69.370
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.210

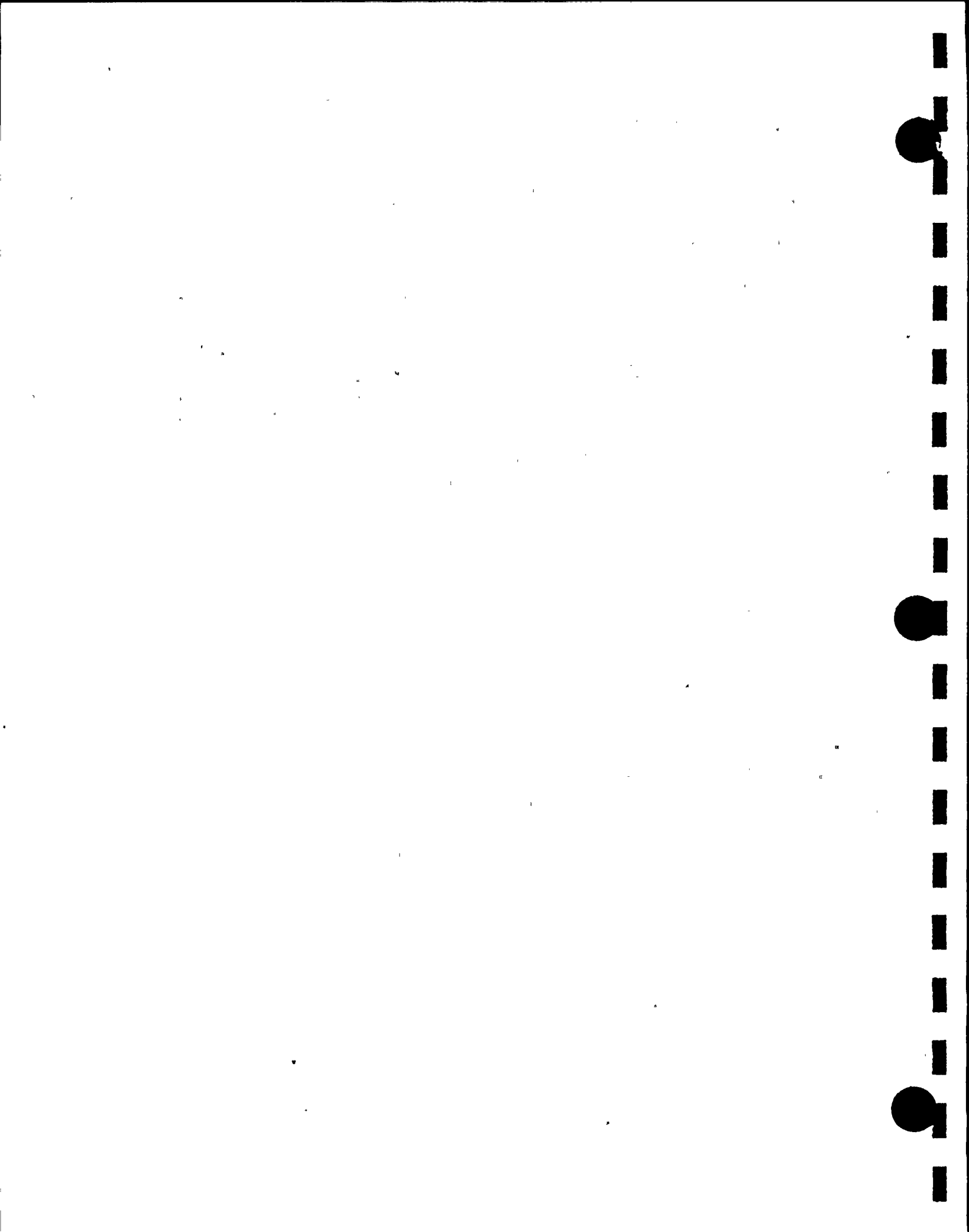
AMBIENT PRESS - 14.348

VAPOR PRESS - .1048266

DRY PRESSURE - 26.61578

FLOWS - 0 3.707

TOTAL FLOW 3.707



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## SENSOR LIST

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RECORD NUMBER - 128

DATE - 05/12

TIME - 6:30:11

## PRESSURES

1 -	26.72500	2 -	26.71900
3 -	26.72000	4 -	26.71600
5 -	26.72200	6 -	26.71900

AVG PRESSURE 26.72060

## RTD/S

1	72.381	2	69.345	3	65.396	4	65.543
5	65.159	6	66.705	7	66.879	8	67.138
9	64.912	10	65.026	11	65.668	12	65.074
13	75.152	14	65.802	15	29.503	16	30.041
17	31.220	18	32.913	19	18.715	20	19.737
21	17.640	22	73.066	23	70.370	24	69.642
25	71.269	26	70.513	27	61.728	28	65.580
29	65.951	30	67.416	31	62.553	32	64.433
33	60.482	34	69.193	35	70.186	36	70.507
37	69.822	38	67.905	39	68.986	40	66.681
41	69.157	42	71.229	43	69.246	44	67.521
45	68.844	46	68.149	INACT	67.299	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.463

## DEW CELLS

1	43.767	2	36.722	3	37.370	4	24.253
5	15.466	6	36.530	7	35.071	INACT	0.000
INACT	14.348	INACT	68.595	INACT	19.476	INACT	69.354
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.208

AMBIENT PRESS - 14.348

VAPOR PRESS - .1048187

DRY PRESSURE - 26.61579

FLOWS - 0 3.707

TOTAL FLOW 3.707



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## SENSOR LIST

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RECORD NUMBER - 129

DATE - 05/12

TIME - 6:45:11

## PRESSURES

1 -	26.72500	2 -	26.71900
3 -	26.72000	4 -	26.71600
5 -	26.72200	6 -	26.71900

AVG PRESSURE 26.72060

## RTD/S

1	72.392	2	69.357	3	65.396	4	65.532
5	65.180	6	66.716	7	66.888	8	67.150
9	64.901	10	65.026	11	65.657	12	65.083
13	75.129	14	65.793	15	29.728	16	30.183
17	31.330	18	33.066	19	18.748	20	19.768
21	17.694	22	73.055	23	70.361	24	69.642
25	71.249	26	70.513	27	61.748	28	65.580
29	65.960	30	67.405	31	62.553	32	64.519
33	60.667	34	69.204	35	70.186	36	70.464
37	69.756	38	67.905	39	69.020	40	66.670
41	69.168	42	71.206	43	69.269	44	67.510
45	68.853	46	68.138	INACT	66.819	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.476

## DEW CELLS

1	43.678	2	36.644	3	37.370	4	24.516
5	15.636	6	36.442	7	34.808	INACT	0.000
INACT	14.348	INACT	68.615	INACT	19.464	INACT	69.332
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.128

AMBIENT PRESS - 14.348

VAPOR PRESS - .104485

DRY PRESSURE - 26.61612

FLOWS - 0 3.707

TOTAL FLOW 3.707





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## SENSOR LIST

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RECORD NUMBER - 130

DATE - 05/12

TIME - 7: 0:11

## PRESSURES

1 -	26.72500	2 -	26.71900
3 -	26.72000	4 -	26.71600
5 -	26.72200	6 -	26.71800

AVG PRESSURE 26.72032

## RTD/S

1	72.415	2	69.377	3	65.405	4	65.543
5	65.202	6	66.727	7	66.910	8	67.170
9	64.912	10	65.003	11	65.645	12	65.074
13	75.109	14	65.793	15	29.858	16	30.302
17	31.448	18	33.212	19	18.768	20	19.811
21	17.714	22	73.076	23	70.404	24	69.653
25	71.238	26	70.513	27	61.685	28	65.569
29	65.940	30	67.405	31	62.532	32	64.498
33	60.656	34	69.224	35	70.100	36	70.495
37	69.833	38	67.862	39	68.997	40	66.677
41	69.175	42	71.181	43	69.253	44	67.528
45	68.860	46	68.100	INACT	66.964	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.490

## DEW CELLS

1	43.504	2	36.450	3	37.282	4	24.250
5	15.636	6	36.445	7	34.894	INACT	0.000
INACT	14.348	INACT	68.615	INACT	19.464	INACT	69.321
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.049

AMBIENT PRESS - 14.348

VAPOR PRESS - .104161

DRY PRESSURE - 26.61616

FLOWS - 0 3.707

TOTAL FLOW 3.707

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## SENSOR LIST

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RECORD NUMBER - 131

DATE - 05/12

TIME - 7:15:11

## PRESSURES

1 -	26.72400	2 -	26.71800
3 -	26.71900	4 -	26.71500
5 -	26.72200	6 -	26.71800

AVG PRESSURE 26.71989

## RTD/S

1	72.442	2	69.395	3	65.412	4	65.570
5	65.198	6	66.754	7	66.938	8	67.188
9	64.908	10	65.021	11	65.641	12	65.079
13	75.039	14	65.809	15	29.961	16	30.448
17	31.533	18	33.338	19	18.818	20	19.833
21	17.748	22	73.044	23	70.349	24	69.653
25	71.269	26	70.502	27	61.673	28	65.558
29	65.951	30	67.396	31	62.553	32	64.573
33	60.548	34	69.344	35	70.166	36	70.529
37	69.822	38	67.894	39	68.997	40	66.677
41	69.175	42	71.247	43	69.253	44	67.528
45	68.848	46	68.122	INACT	66.960	INACT	0.000
INACT	0.000	INACT	0.000				

AVG RTD 61.511

## DEW CELLS

1	43.504	2	36.528	3	37.193	4	24.516
5	15.724	6	36.452	7	34.894	INACT	0.000
INACT	14.347	INACT	68.610	INACT	19.467	INACT	69.327
INACT	0.000	INACT	0.000	INACT	0.000		

AVG DEW CELL 36.065

AMBIENT PRESS - 14.348

VAPOR PRESS - .1042249

DRY PRESSURE - 26.61566

FLOWS - 0 3.707

TOTAL FLOW 3.707



TYPE A TEST RESULTS		
MASS POINT	AS FOUND % Weight / Day	AS LEFT % Weight / Day
Least Squares Fit Leak Rate ( $L_{sm}$ )	-0.01547	-0.01547
95% UCL Leak Rate	-0.00962	-0.00962
LLRT (Type B & C) Adjustments	0.0034	0.0034
Other Adjustments	0.0141	0
Total (Lines 2, 3, & 4)	0.00788	-0.00622
TOTAL TIME		
Least Squares Fit Leak Rate ( $L_{sm}$ )	-0.0209	-0.0209
95% UCL Leak Rate	0.0344	0.0344
LLRT (Type B & C) Adjustments	0.0034	0.0034
Other Adjustments	0.0141	0
Total (Lines 2, 3, & 4)	0.0519	0.0378



# VERIFICATION TEST RESULTS

## TOTAL TIME

Superimposed Leakage Rate ( $L_o$ )	.247 % Wt/Day
LSF Leak Rate - Type A Test ( $L_{am}$ )	-0.0209 % Wt/Day
.25 $L_a$	.0625 % Wt/Day
LSF Leak Rate During Verification Test ( $L_v$ )	.1779 % Wt/Day
$(L_o + L_{am} - .25 L_a) \leq L_v \leq (L_o + L_{am} + .25 L_a)$ $(.247 + (-.0209) - .0625) \leq .1779 \leq (.247 + (-.0209) + .0625)$ $.1636 \leq .1779 \leq .2886$	

## MASS POINT

Superimposed Leakage Rate ( $L_o$ )	.25 % Wt/Day
LSF Leak Rate - Type A Test ( $L_{am}$ )	-.01547 % Wt/Day
.25 $L_a$	.0625 % Wt/Day
LSF Leak Rate During Verification Test ( $L_v$ )	.1907 % Wt/Day
$(L_o + L_{am} - .25 L_a) \leq L_v \leq (L_o + L_{am} + .25 L_a)$ $(.247 + (-.01547) - .0625) \leq .1907 \leq (.247 + (-.01547) + .0625)$ $.16903 \leq .1907 \leq .29403$	





# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
001	CPN-17 CPN-21	CLV #1 (WCR-900, WCR-902)	0	0	0	0
002	CPN-17 CPN-21	CLV #1 (WCR-901, WCR-903)	0	0	39.7	39.7
003	CPN-20 CPN-24	CLV #4 (WCR-912, WCR-914)	0	0	0	0
004	CPN-20	CLV #4 (WCR-913, WCR-915)	0	0	0	0
005	CPN-26	CUV #1 (WCR-920, WCR-922)	0	0	0	0
006	CPN-26	CUV #1 (WCR-921, WCR-923)	25.19	25.19	0	0
007	CPN-84	CUV #4 (WCR-932, WCR-934)	0	0	0	0
008	CPN-84	CUV #4 (WCR-933, WCR-935)	70.60	0	0	0
009	CPN-26	RCP #1 Motor Cooler (WCR-941, WCR-945)	0	0	0	0
010	CPN-26	RCP #1 Motor Cooler (WCR0951, WCR-955)	0	0	0	0



# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
011	CPN-84	RCP #4 Motor Cooler (WCR-944, WCR-948)	0	0	0	0
012	CPN-84	RCP #4 Motor Cooler (WCR-954, WCR-958)	0	0	0	0
013	CPN-18 CPN-22	CLV #2 (WCR-904, WCR-906)	0	0	194.1	194.1
014	CPN-18 CPN-22	CLV #2 (WCR-905, WCR-907)	0	0	0	0
015	CPN-19 CPN-23	CLV #3 (WCR-908, WCR-910)	0	0	0	0
016	CPN-19 CPN-23	CLV #3 (WCR-909, WCR-911)	0	0	0	0
017	CPN-27	CUV #2 (WCR-924, WCR-926)	0	0	0	0
018	CPN-27	CUV #2 (WCR-925, WCR-927)	0	0	0	0
019	CPN-85	CUV #3 (WCR-928, WCR-930)	0	0	109.3	109.3
020	CPN-85	CUV #3 (WCR-929, WCR-931)	0	0	0	0



# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
021	CPN-27	RCP #2 Motor Cooler (WCR-942, WCR-946)	0	0	0	0
022	CPN-27	RCP #2 Motor Cooler (WCR-952, WCR-956)	20.13	20.13	19.9	19.9
023	CPN-85	RCP #3 Motor Cooler (WCR-943, WCR-947)	0	0	189.3	189.3
024	CPN-85	RCP #3 Motor Cooler (WCR-953, WCR-957)	0	0	0	0
025	CPN-73	Instrument Room East (WCR-960, WCR-962)	0	0	0	0
026	CPN-73	Instrument Room East (WCR-961, WCR-963)	20.15	20.15	0	0
027	CPN-73	Instrument Room West (WCR-964, WCR-966)	0	0	0	0
028	CPN-73	Instrument Room West (WCR-965, WCR-967)	0	0	0	0
029	CPN-61	Instrument Room Supply 612' (VCR-101, VCR-201)	44.87	32.93	9.9	105.0
030	CPN-62	Instrument Room Exhaust 612' (VCR-102, VCR-202)	0	0	965.1	1100.0



# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
031	CPN-64	Lower Supply 633' (VCR-104, VCR-203)	109.89	109.89	0	0
032	CPN-63	Lower Exhaust 633' (VCR-104, VCR-204)	398.5	2516.4	246.7	246.7
033	CPN-59	Cntmt Vent Upper Supply 650' (VCR-105, VCR-205)	35.33	32.89	0	0
034	CPN-60	Cntmt Vent Upper Supply 650' (VCR-106, VCR-206)	2644.9	2644.9	866.1	1372.4
035	CPN-65	Pressure Equalization 650' (VCR-107, VCR-207)	72.77	72.77	24,095.4	148.6
036	CPN-95	H <sub>2</sub> Return Line (ECR-10, ECR-20)	20.1	20.1	0	0
037	CPN-95	ESR-1 (ECR-11, ECR-21)	0	0	0	0
038	CPN-95	ESR-2 (ECR-12, ECR-22)	0	0	0	0
039	CPN-95	ESR-3 (ECR-13, ECR-23)	0	0	0	0
040	CPN-93	ESR-4 (ECR-14, ECR-24)	0	0	0	0
041	CPN-95	ESR-5 (ECR-15, ECR-25)	0	0	0	0
042	CPN-93	ESR-6 (ECR-16, ECR-26)	0	0	0	0
043	CPN-93	ESR-7 (ECR-17, ECR-27)	0	0	0	0

# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
044	CPN-93	ESR-8 (ECR-18, ECR-28)	0	0	0	0
045	CPN-93	ESR-9 (ECR-19, ECR-29)	0	0	0	0
046	CPN-11	RCP #1 Seal HO (CS-442-1)	0	0	0	0
047	CPN-14	RCP #4 Seal HO (CS-442-4)	0	0	0	0
048	CPN-12	RCP #2 Seal HO (CS-44202)	202.27	202.27	0	0
049	CPN-13	RCP #3 Seal HO (CS-442-3)	20.19	20.19	222.1	222.1
050	CPN-15	Relief Valve Header to PRT (SI-189)	70.26	70.26	0	445.8
051	CPN-70	Air Particulate/Radioactive Gas Monitor (SM-1)	100.74	100.74	0	0
052	CPN-32	N <sub>2</sub> to Accumulators (N-102)	65.0	65.0	0	0
053	CPN-74	N <sub>2</sub> to PRT (N-275)	115.21	115.21	0	0
054	CPN-33	PW to PRT (PW-275)	0	0	0	0
055	CPN-35	Charging to Regen Heat Exchanger (CS-321)	903.4	903.4	139.9	300.0



# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
056	CPN-30	Dead Weight Calibrator (NPX-151-V1)	0	0	0	0
057	CPN-86	Glycol Return (VCR-10, VCR-11)	13.61	13.61	0	0
058	CPN-56	Glycol Return (VCR-20, VCR-21)	13.04	13.04	0	0
059	CPN-31	N <sub>2</sub> and Vent Head for RCDT(DCR-203, DCR-207)	0	0	0	0
060	CPN-31	N <sub>2</sub> & Vent head for RCDT (N-160, DCR-201)	209.6	209.6	39.7	39.7
061	CPN-31	Ice Condenser AHU Drain Header (DCR-610,DCR-611)	0	0	0	0
062	CPN-31	CLV & CUV Drain Header (DCR-205, DCR-621)	974.9	250.69	2044.4	69.6
063	CPN-40	RCDT Drain Header (DCR-205, DCR-206)	0	0	0	0
064	CPN-41	Cntmt Sump to Holdup Tanks (DCR-600,DCR-601)	75.35	75.35	0	0
065	CPN-34	Letdown (QCR-300)	0	0	0	0
066	CPN-34	Letdown (QCR-301)	0	40.15	0	19.9



# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
067	CPN-37	RCP Seal HO Return (QCM-250, QCM-350)	0	10.1	0	9.95
068	CPN-45	RHR Recirc East (ICM-305)	24.95	0	0	0
069	CPN-46	RHR Recirc West (ICM-306)	9.95	0	0	0
070	CPN-36	Demin. HO for Reactor Cav. Scrub (QCR-919,QCR-920)	0	0	0	0
071	CPN-36	Refueling H <sub>2</sub> O to Reactor Cav. (SF-152, Sf-154)	0	0	9.95	9.95
072	CPN-42	Refueling Cavity Drain (SF-159, SF-160)	0	0	0	0
073	CPN-66	NSX-101,103 Hot Leg Samples(NCR105,NCR106)	0	0	0	0
074	CPN-66	NSX-102 Press. Liquid Sample(NCR107,NCR108)	0	0	150.1	0
075	CPN-66	NSX-104 Press. Steam Sample(NCR109,NCR110)	0	0	0	0
076	CPN-81	NSI-52 PRT Sample (RCR-100, RCR-101)	30.05	30.05	0	0
077	CPN-81	DSI-201 RCDT Sample (DCR-202,DCR-201)	0	0	0	0



# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
078	CPN-81	ISX-1,2,3,4 Accumulator Samples(ICR-5,ICR-6)	0	0	0	0
079	CPN-31	Air Particulate/Radioactive GasMonitor(ECR33,ECR35)	45.16	45.16	29.6	29.6
080	CPN-43	North SI Discharge (ICM-260)	0	0	0	0
081	CPN-68	South SI Discharge (ICM-265)	0	0	0	0
082	CPN-32	Air Particulate/Radioactive GasMonitor(ECR31,ECR32)	45.17	45.17	1732.15	39.55
083	CPN-74	Control Air to Containment (XCR-100)	95.18	95.18	0	0
084	CPN-29	Control Air to Containment (XCR-102)	70.6	70.6	0	0
085	CPN-74	N <sub>2</sub> to PRT (GCR-301)	20.2	20.2	20.0	20.0
086	CPN-32	N <sub>2</sub> to Accumulators (GCR-314)	0	0	0	0
087	CPN-32	Safety Injuection Test Line (Si-171,172,194)	0	0	0	0
088	CPN-33	PW to PRT (NCR-252)	0	0	0	0

# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
089	CPN-39 CPN-38 CPN-58	CCW to & from RCP Oil Coolers/Thermal Barrier (CCM-452,454,458)	0	0	0	0
090	CPN-39 CPN-38 CPN-58	CCW to & from RCP Oil Coolers/Thermal Barrier (CCM-451,453,459)	0	0	0	0
091	CPN-75	CCW to & from Excess Letdown Heat Exchanger (CCR-460, CCR-462)	0	0	0	0
092	CPN-82	CCW to & from Reactor Supports(CCR457,CCW135)	0	0	0	0
093	CPN-82	CCW to & from Reactor Supports(CCR455,CCR456)	0	0	0	0
094	CPN-89	Grab Sample (SM-4,SM-6)	0	0	0	0
095	CPN-94	Cntmt Press. Phase A, Phase B Isolation (PPP-300)	0	0	0	0
096	CPN-92	Cntmt Press. Phase A, Phase B Isolation (PPP-301)	0	0	0	0
097	CPN-91	Cntmt Press. Phase A, Phase B Isolation (PPP-302)	0	0	0	0



# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
098	CPN-96	Cntmt Press. Phase A, Phase B Isolation (PPP-303)	0	0	0	0
099	CPN-97	Cntmt Pressure Alarm (PPA-310, PPA-311)	0	0	0	0
100	CPN-98	Cntmt Pressure Alarm (PPP-312, PPA-313)	0	0	0	0
101	CPN-44	Boron Injection (ICM-251	39.85	0	4733.4	81.75
102	CPN-44	Boron Injection (ICM-250)	40.37	30.11	144.7	59.6
103	CPN-83	Weld Channel Pressurization (CA-181S)	0	0	19.9	19.9
104	CPN-83	Weld Channel Pressurization (CA-181N)	0	0	79.4	79.4
105	CPN-89	Grab Sample (SM-8,SM-10)	22.49	15.18	42.2	42.2
106	CPN-25	CCW to CPN Coils 2 & 5, East (CCW-243-25)	0	0	0	0
107	CPN-25	CCW to CPN Coils 2 & 5, East (CCW-244-25)	0	0	0	0
108	CPN-72	CCW to CPN Coils 3 & 4, West (CCW-243-72)	0	0	0	0





# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
109	CPN-25	CCW to CPN Coils 3 & 4, West (CCW-244-72)	0	0	0	0
110	CPN-25	CCW to CEQ-1 (CCM-430)	0	0	0	0
111	CPN-25	CCW from CEQ-1 (CCM-431)	0	0	0	0
112	CPN-25	CCW from CPN Coils 2&5 (CCR-440)	0	0	0	0
113	CPN-72	CCW to CEQ-2 (CCM-432)	0	0	0	0
114	CPN-72	CCW to CEQ-2 (CCM-433)	0	0	0	0
115	CPN-72	CCW from CPN Coils 3&4 (CCR-441)	0	0	0	0
116	CPN-86	Glycol Supply Expansion Valve (R-156)	0	0	0	0
117	CPN-56	Glycol Return Expansion Valve (r-157)	0	0	0	0
118	CPN-67	Post Accident Sampling Return Check Valve (NS-357)	160.9	160.9	800.0	89.4
119	CPN-67	Post Accident Sampling Return Isolation Valves (ECR-496, ECr-497)	9.96	9.96	345.8	47.6



# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE C

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
120	CPN-67	Post Accident Sampling Supply Isolation Valve (ECR-416)	0	0	0	0
121	CPN-67	Post Accident Sampling Supply (ECR-417)	501.86	0	0	0
122	CPN-32	Containment Sampling (ECR-535)	40.33	40.33	64.9	64.9
123	CPN-32	Containment Sampling (ecr-536)	60.5	60.5	99.9	99.9
124	CPN-70	Air Particulate/Radioactive Gas Monitor Return(ECR36)	50.28	50.28	59.4	59.4
125	CPN-29	Plant Air to Containment (PCR-40)	0	0	0	0
126	CPN-29	Plant Air to Containment Check Valve (PA-342)	80.15	80.15	39.5	39.5
127	CPN-95	Hydrogen Sample Return check Valve (NS-283)	210.39	210.39	0	0
128	CPN-74	Control Air to Containment (XCR-101)	70.66	70.66	64.4	64.4
129	CPN-29	Control Air to Containment (XCR-103)	0	0	0	0



# 1990 - 1992 LLRT AS FOUND & AS LEFT DATA

## TYPE B

TEST STEP	PEN NO.	DESCRIPTION	1992 SCCM AS FOUND	1992 SCCM AS LEFT	1990 SCCM AS FOUND	1990 SCCM AS LEFT
001	X-1A	"612 Airlock	5511	1710.6	744.0	4617.3
002	X-1B	650' Airlock	550	659.2	795.0	4808.7
003	X-2	Zone 3 Penetrations	19.98	19.98	0	0
004	X-4	Zone 4 Penetrations	19.98	19.98	29.8	89.7
005	X-6	Fuel Transfer Blind Flange	0	0	0	0
007	X-7A	Ice Loading Blind Flange (CPN-57)	0	0	0	0
008	X-7B	Ice Loading Blind Flange (CPN-80)	0	-	0	0
009	X-7C	Flux Thimble Handling	20.1	0	59.6	0
010	X-7D	Spare Penetration CPN-67	0	0	19.9	19.9
011	X-9A	650' Equip. Hatch Ring Body Flange Seal	0	0	79.3	0
012	X-9B	650' Airlock Equipment Hatch Cover Flange Seal	825	0	0	0
013	X-35A	CPN-71 Service Penetration	19.98	0	-	-
SCCM TOTALS			14,821.04	11,029.54	39,344.50	15,024.90



## 1992 LLRT PENALTY ADJUSTMENTS TO ILRT

CPN NO.	DESCRIPTION	LEAKAGE (SCCM)	DIFFERENCE (WT.%/DAY)
26	CLV #1	25.19	
27	RCP #2 Motor Air Coolers	20.13	
73	East Inst. Room Vent	20.15	
15	ECCS Relief Valve Dis.	70.26	
44	Boron Inj. Tank Outlet Valve	30.11	
41	Cont. Sump Line to Waste Hold-up Tanks	75.35	
11-14	RCP Seal Water Lines	222.46	
34	CVCS	40.15	
37	Seal Water Return	10.1	
35	CVCS Charging	903.4	
86/56	Glycol Lines to & from Ice Condenser AHU's	26.65	
TOTAL SCCM		1443.95	0.0034