

PEACH BOTTOM ATOMIC POWER STATION

UNIT 3

REACTOR CONTAINMENT

BUILDING INTEGRATED

LEAKAGE RATE

TEST REPORT

December 24, 1991

GENERAL PHYSICS CORPORATION

PHILADELPHIA ELECTRIC COMPANY

Peach Bottom Atomic Power Station

Unit 3

REACTOR CONTAINMENT BUILDING INTEGRATED

LEAKAGE RATE TEST REPORT

December 24, 1991

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2/28/92

Date

GENERAL PHYSICS CORPORATION

GP-R-263310

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1. INTRODUCTION

The Reactor Building Integrated Leakage Rate "Type A" Test is performed to demonstrate that leakage through the primary reactor containment systems and components penetrating primary containment do not exceed the allowable leakage rates specified in the Plant Technical Specifications.

The purpose of this report is to provide information pertinent to the activities related to the preparation, test performance, and reporting of the Peach Bottom Atomic Power Station Unit 3 Integrated Leakage Rate Test (ILRT).

Highlights of activities and events which occurred prior to and during the ILRT are presented in Section II, Test Synopsis.

Section III, Test Data Summary, contains data and results necessary to demonstrate containment atmosphere stabilization, acceptable leakage rate, and successful verification test. In addition, plots provided in Appendices B and C supply a visual history of containment atmospheric conditions beginning with the 24 hour ILRT test period and ending with the verification test.

Information in Section IV, Analysis and Interpretation, supplies the technical details associated with the ILRT computer program and its associated hardware as well as the instrumentation used during the ILRT.

Section V, References, lists the documents used for the conduct of the ILRT.

The successful periodic Type A and verification tests were performed according to the requirements of the Peach Bottom Unit 3 Technical Specifications and 10CFR50, Appendix J.

The test method used is the Absolute Method described in ANSI/ANS 56.8-1987, "Containment System Leakage Testing Requirements".

Leakage rates were calculated using Mass Point Analysis equations from ANSI/ANS 56.8-1987, during the Type A and verification tests. Total Time Analysis was run concurrently for informational purposes. The test results are reported in accordance with the requirements of 10CFR50, Appendix J, Section V.B.3.

II. TEST SYNOPSIS

Prior to containment pressurization on December 21, 1991, site personnel were engaged in prerequisite activities for the conduct of the ILRT. Local leakage rate testing was completed and those components with excessive leakage were repaired and retested. The results of the local leakage rate tests are presented in Appendix F.

The following discussion highlights some of the activities that were essential to the successful and timely completion of the ILRT. These items are presented in chronological order.

A. Pre-pressurization Activities

These activities included completing local leakage rate tests, ILRT procedure review and finalization, ILRT computer program checkout and linkup to the Volumetrics Data Acquisition System, ILRT instrumentation operability checks, and containment subvolume weighting factor and sensor failure analysis calculation.

The ILRT test procedure was reviewed against the requirements of the Plant Technical Specifications; 10CFR50, Appendix J; BN-TOP-1, Rev. 1, 1972; and ANSI/ANS 56.8-1987.

The ILRT instrumentation was calibrated prior to the ILRT as recommended by ANSI N45.4-1972, Section 6.2 and 6.3. Final ILRT instrumentation operability checks and in-situ checks, as specified in ANSI/ANS 56.8-1987, Section 4.2.3.1, were performed to ensure that all instrumentation was operating correctly. Calibration records for the ILRT instrumentation system components are retained at the plant.

B. Test Summary Time-Line

<u>Phase</u>	<u>Time Frame</u>	<u>Duration</u>
Pressurization	From: 1717 on 12/21/91 To: 0332 on 12/22/91	10.25 hours
Stabilization	From: 0335 on 12/22/91 To: 1305 on 12/22/91	9.5 hours
ILRT Test	From: 1320 on 12/22/91 To: 1320 on 12/23/91	24 hours
Verification Test	From: 1335 on 12/23/91 To: 1735 on 12/23/91	4 hours

C. Containment Pressurization

Containment pressurization started at 1717 on December 21, 1991 using three 1200 scfm portable diesel-driven 100% oil-free air compressors. The pressurization rate was maintained at approximately 0.3 psi per hour until containment pressure reached 48 psig. At this time the pressurization rate was reduced to approximately 1.5 psi per hour, by stopping two of the three compressors. The third compressor was stopped when containment pressure reached approximately 50.3 psig at 0332 on December 22, 1991. This was within the procedural limits of 50.1 +1, -0 psig.

During pressurization, a containment walkdown was performed to identify potential leakage. No measurable leakage was observed. The pressurization, ILRT, and verification test were performed with the use of drywell fans and chilled water supply to the fan coolers.

D. Containment Atmosphere Stabilization

The stabilization phase was started at 0335 on December 22, 1991. Prior to the completion of the four hour hold at 0735 on December 22, 1991, the temperature stabilization criteria of BN-TOP-1 and ANSI/ANS 56.8 had been met. However, containment mass changes had not stabilized and the stabilization period was extended to 1305 on December 22, 1991.

E. ILRT Test Period

The ILRT was officially started after the stabilization criteria had been met at the next data point (1320 on December 22, 1991). During the stabilization period, one moisture sensor in the Torus and one moisture sensor in the Drywell were indicating erratic dewpoint temperature changes. This change was not observed in the other 4 moisture sensors. As a result, moisture sensors No. 1 and 5 were removed (by use of the weighting factors) from the ILRT and verification data. Reactor vessel level was dropping at a rate of approximately 1.5 inches per hour. Approximately half of the level decrease was determined to be leakage through valves CHK-3-10-177 and MO-3-10-174 into the Radwaste System. These two valves along with valve MO-3-10-176 provide isolation between the Residual Heat Removal System and the High Pressure Service Water System.

At 1745, the tell-tale air operated valve AO-3-10-175 was manually closed and the reactor vessel level drop decreased to approximately 0.8 inches per hour. (Additional discussion is provided in Section IV. E.) The ILRT was successfully completed at 1320 on December 23, 1991. The maximum allowable leakage rate (L_a) for the containment is 0.5 % wt. per day with a test acceptance limit of 0.375 % wt. per day ($0.75 L_a$). The Mass Point and Total Time Analyses were run concurrently on the General Physics ILRT Computer Program. The leakage rate results are as follows:

	Mass Point Analysis <u>% wt./day</u>	Total Time Analysis <u>% wt./day</u>
Calculated Leakage Rate	0.0889*	0.0967*
95 % Upper Confidence Leakage Rate	0.0932*	0.1088*

* Does not include penalties for nonstandard alignments and water level changes

F. Verification Test

A successful verification¹ test was conducted following the ILRT. At 1325 on December 23, 1991, a leakage rate of 4.5 scfm was imposed on the primary containment. The verification phase started at 1335 on December 23, 1991 and was completed at 1735 on the same day. The 4.5 scfm leakage imposed (L_a) on the existing containment leakage was slightly more than L_a (0.500 % wt./day) at 0.5013 % wt. per day.

The verification test results are presented below:

	Mass Point Analysis <u>% wt./day</u>	Total Time Analysis <u>% wt./day</u>
Leakage Rate (L_{am})	0.0889	0.0967
Imposed Leak (L_{ij})	0.5013	0.5013
Lower Limit: $L_{ij} + L_{am} + 0.25 L_{ij}$	0.4652	0.4731
Composite Leakage (L_c)	0.5358	0.5201
Upper Limit: $L_{ij} + L_{am} + 0.25 L_{ij}$	0.7152	0.7231

G. Drywell-to-Torus Bypass Area Test

Subsequent to the ILRT and the verification test, the Drywell-to-Torus Bypass Area Test (DTBAT) was conducted. The test started at 0210 on December 24, 1991, and was successfully completed after 1 hour. The calculated bypass area was determined to be 0.1208 square inches. The maximum acceptable bypass area, as stated in the Peach Bottom Atomic Power Station Technical Specifications, is equivalent to a 1.000 inch I.D. orifice or 0.785 square inches.

III. TEST DATA SUMMARY

A. Plant Information

Owner	Philadelphia Electric Company
Plant	Peach Bottom Atomic Power Station Unit 3
Location	Delta, Pennsylvania
Containment Type	BWR Mark I
NSSS Supplier, Type	General Electric BWR-4
Containment Description	Metal vessel, "light bulb" shaped drywell with torus shaped suppression chamber connected by a vent system. Vacuum breakers are provided between the suppression chamber and both the drywell and reactor building.
Date Test Completed	December 24, 1991

B. Technical Data

Containment Net Free Volume	293,900 cubic feet
Design Pressure	56 psig
Design Temperature	281° F
Calculated Peak Accident Pressure	49.1 psig
Calculated Peak Accident Temperature	283° F

C. Test Results - Type A

Test Method	Absolute
Test Pressure	49.1 psig

Integrated Leakage Rate Mass Point Analysis Test Results :

Calculated Leakage Rate, L_{am}	0.0889 % wt./day
95% Upper Confidence Limit Leakage Rate	0.0932 % wt./day

Integrated Leakage Rate Total Time Analysis Test Results (Presented for information only) :

Calculated Leakage Rate, L_{am}	0.0967 % wt./day
95% Upper Confidence Limit Leakage Rate	0.1088 % wt./day

Maximum Allowable Leakage Rate, L_a	0.500 % wt./day
ILRT Acceptance Criteria, $0.75 L_a$	0.375 % wt./day
Verification Test Imposed Leakage Rate, L_v	4.5 scfm or 0.5013 % wt./day

Verification Test Mass Point Analysis Results and Limits

Upper Limit ($L_v + L_{am} + 0.25 L_a$)	0.7152 % wt./day
Calculated Composite Leakage Rate, L_c	0.5358 % wt./day
Lower Limit ($L_v + L_{am} - 0.25 L_a$)	0.4652 % wt./day

Verification Test Total Time Analysis Results and Limits (Presented for information only)

Upper Limit ($L_o + L_{am} + 0.25 L_o$)	0.7231 % wt./day
Calculated Composite Leakage Rate, L_c	0.5201 % wt./day
Lower Limit ($L_o + L_{am} - 0.25 L_o$)	0.4731 % wt./day

Report Printouts

The report printouts of the ILRT and verification test calculations are provided for the Total Time and Mass Point Analyses in Appendices B and C. Stabilization data is also provided in Appendix A.

D. Test Results - Type B and C Tests

A summary of local leakage rate test results since the ILRT in 1989 are included in Appendix F.

E. Integrated Leakage Rate Measurement System

1. Absolute Pressure

Quantity	1
Manufacturer	Mensor
Type	Quartz Manometer
Range	0-100 psia
Accuracy	+/- 0.015% reading + 0.002% f. s.
Sensitivity	0.001 psia
Repeatability	+/- 0.001 psia
Resolution	0.001 psia

2. Drybulb Temperature

Quantity	12
Manufacturer	Volumetrics
Type	100 ohm platinum resistance temperature detectors (RTD)
Range, calibrated	60 - 120 ° F
Accuracy	+/- 0.1 ° F
Sensitivity	0.01 ° F

3. Dewpoint Temperature

Quantity	6
Manufacturer	E G & G
Type	Model 660, chilled mirror
Range, calibrated	40 - 120 ° F dewpoint
Accuracy	+/- 0.54 ° F
Sensitivity	0.01 ° F

Note: Six (6) dewpoint temperature sensors were installed for the ILRT. Two (2) sensors were deleted due to erratic readings and the ILRT was completed using four (4) dewpoint temperature sensors. Refer to Appendix D for the ISG calculation.

4. Verification Flow

Quantity	1
Manufacturer	Volumetrics
Type	Thermal Mass Flow
Range	1.0 - 10.0 scfm
Accuracy	+/- 1% full scale

5. Readout Device

Quantity	1
Manufacturer	Volumetrics
Type	Model A - 100
Repeatability	+/- 0.01 ° F
Resolution	0.01 ° F

The Instrumentation Selection Guide (ISG) value from ANSI/ANS 56.8-1987 based on the above ILRT instrumentation configuration (2 pressure gauges, 4 dewpoint temperature sensors, and 12 drybulb temperature sensors) and a 24 hour test is 0.0031 % wt./day. (Refer to Appendix D for calculations)

The sensor locations and volume fractions as installed for the ILRT are shown in Appendix G.

G. Information Retained at Plant

The following information is available for review at the Peach Bottom Atomic Power Station site:

1. Access control procedures used to control access to the containment during testing.
2. A listing of all containment penetrations, including the total number, penetration size, and function.
3. A listing of normal operating instrumentation used for the leakage rate test.
4. A system lineup (at time of test), showing required valve positions and status of piping systems.
5. A continuous, sequential log of events from initial survey of containment to restoration of tested systems.
6. Documentation of instrumentation calibrations and standards, including a sensor failure analysis.
7. Data to verify temperature stabilization criteria as established by test procedure (Appendix A).
8. The working copy of the test procedure that includes signature sign-offs of procedural steps.

9. The procedure and data that verifies completion of penetration and valve testing, including as-found leak rates, corrective action, and final leak rates.
10. Computer printouts of ILRT data and automated data acquisition printouts along with a summary description of the computer program.
11. The Quality Assurance audit plan or checklist that was used to monitor the ILRT with proper signoffs.
12. A listing of test exceptions including changes in the containment system boundaries.
13. Description of sensor malfunctions, repairs, and methods used to redistribute volume weighting fractions to operating instrumentation.
14. A review of confidence limits of test results with accompanying computer printouts.
15. Description of the method of leakage rate verification.
16. ILRT data plots obtained during the test.
17. The P&IDs of pertinent systems.

IV. ANALYSIS AND INTERPRETATION

The upper 95% confidence limit (UCL) Total Time and Mass Point leakage rates calculated during the ILRT were less than the test acceptance criteria of 0.75 L_g (0.375 % wt./day). Additions to the calculated leakage rates must be made to account for penetration paths not exposed to the ILRT pressure and for changes in the net free containment volume due to changes in containment water levels. These additions are discussed below.

A. Type C Penalties

Penetration paths not exposed to the ILRT pressure and the corresponding minimum pathway leakage rates are as follows:

<u>Pen. No.</u>	<u>System</u>	<u>Leakage Rate (SCCM)</u>
N-9A	Feedwater	688
N-9B	Feedwater	4485
N-12	Residual Heat Removal (Shutdown Cooling)	449
N-14	Reactor Water Cleanup	95
N-23	RBCCW	20
N-24	RBCCW	564
N-32C/D & N-218C	ILRT	10
N-41	Recirc Sample	5
* N-47	ADS Backup N ₂	10
* N-51A	PCAC Sample	91

<u>Pen. No.</u>	<u>System</u>	<u>Leakage Rate (SCCM)</u>
N-53	Drywell Cooling	10
N-54	Drywell Cooling	47
N-55	Drywell Cooling	1001
N-56	Drywell Cooling	2402
* N-218A	Torus Instrumentation	10
Various	Electrical Penetrations & Piping Bellows	465

* Valves found out of position during restoration. Philadelphia Electric Company's Event Investigation Program will determine appropriate corrective action.

** This penetration has multiple pathways. The leakage rate indicated is the minimum pathway leakage rate for the specific pathway which was not vented.

The total applicable local leakage rate Type C penalty addition is 10,352 sccm which is equivalent to 0.0407 % wt. per day.

B. Volume Change Corrections

The following volumes were monitored for liquid level changes which would affect the containment net free volume:

<u>Vessel</u>	<u>Level Change</u>	<u>Volume Change</u>
Reactor Vessel	-14.60 inches	488 ft ³
Torus	+0.020 inches	-219.7 ft ³
Drywell Floor Drain Tank	+10.50 inches	-50.18 ft ³
Drywell Equip. Drain Tank	+19.25 inches	-80.01 ft ³

Note: A positive level change is an increase in level. A positive volume change reflects a decrease in level.

This represents a net increase in containment net free volume which is accounted for in the calculated leakage rates and no additional correction is required.

C. Miscellaneous Additions

HCU Accumulator Leakage	0.0043 % wt. per day
Purge Valve Boot Seal Leakage	0.0004 % wt. per day

D. As Left ILRT Results

The as left ILRT leakage rate including the required additions is as follows:

	<u>Mass Point Analysis</u> <u>(% wt./day)</u>	<u>Total Time Analysis</u> <u>(% wt./day)</u>
95% UCL Leakage Rate	0.0932	0.1088
Type C Penalties	0.0407	0.0407
Volume Change	0.0000	0.0000
Misc. Additions	0.0047	0.0047
As Left 95% UCL Leakage Rate	0.1386	0.1542

The as left Total Time and Mass Point 95% UCL leakage rates are less than the test acceptance criteria value of 0.75 L_g (0.375 % wt./day).

E. As Found ILRT Results

The leakage savings due to repairs and/or adjustments to containment penetrations and isolation valves prior to performance of the ILRT was calculated to be 17,472 sccm or 0.0687 % wt. per day. (Refer to Appendix F) The as found ILRT leakage rate is as follows:

	Mass Point Analysis <u>(% wt./day)</u>	Total Time Analysis <u>(% wt./day)</u>
As Left 95% UCL Leakage Rate	0.1386	0.1542
Leakage Savings	0.0687	0.0687
As found 95% UCL Leakage Rate	0.2073	0.2229

During the ILRT, it was deemed necessary to isolate the leakage from the RHR system through MO-3-10-174 as previously discussed in Section II.E.

The isolation of this leak does not affect the as-found ILRT for the following reasons:

- 1) The intent of Appendix J leak rate testing is to assure the leakage of post accident atmosphere is within the analyzed amount. Leakage of water is not addressed in Appendix J.
- 2) The leak path isolated will not be subject to the post accident atmosphere.
- 3) Valve MO-3-10-174 is not a primary containment isolation valve.

- 4) The RHR system is in service post accident, operating at greater than containment atmosphere pressure and the RHR system has four (4) orders of magnitude of inventory make-up capability above the leak rate.

Water leakage from the containment during the ILRT increases the containment net free volume which results in an increased measured containment leak rate. This measured leakage rate is greater than the actual containment atmosphere leak rate.

The as found Total Time and Mass Point 95% UCL Leakage Rates are less than the maximum allowable leakage rate (L_a) of 0.500% wt. per day.

This is the second consecutive successful ILRT and Peach Bottom Unit 3 plans to resume a normal ILRT schedule. The next ILRT for Unit 3 is planned for two refueling outages from now or approximately 36 months.

V. REFERENCES

- A. Peach Bottom Atomic Power Station Unit 3 Periodic Test Procedure, ST- T - 07A - 600 - 3, Integrated Primary Containment Leak Rate Test.
- B. Peach Bottom Atomic Power Station Unit 3 Technical Specifications.
- C. Peach Bottom Atomic Power Station Unit 3 Updated Final Safety Analysis Report
- D. Code of Federal Regulations, Title 10, Part 50, Appendix J, Primary Reactor Containment Leakage Testing for Water Cooled Power Reactors.
- E. ANSI N45.4-1972, Leakage-Rate Testing of Containment Structures for Nuclear Reactors.
- F. Bechtel Topical Report BN-TOP-1, Rev. 1, 1972, Testing Criteria for Integrated Leakage Rate Testing of Primary Containment Structures for Nuclear Power Plants.
- G. ANSI/ANS 56.8-1987, Containment System Leakage Testing Requirements.

APPENDIX A
STABILIZATION PHASE DATA

STABILIZATION MODE
OPTIONS

TIME : 1305
MODE SUMMARY

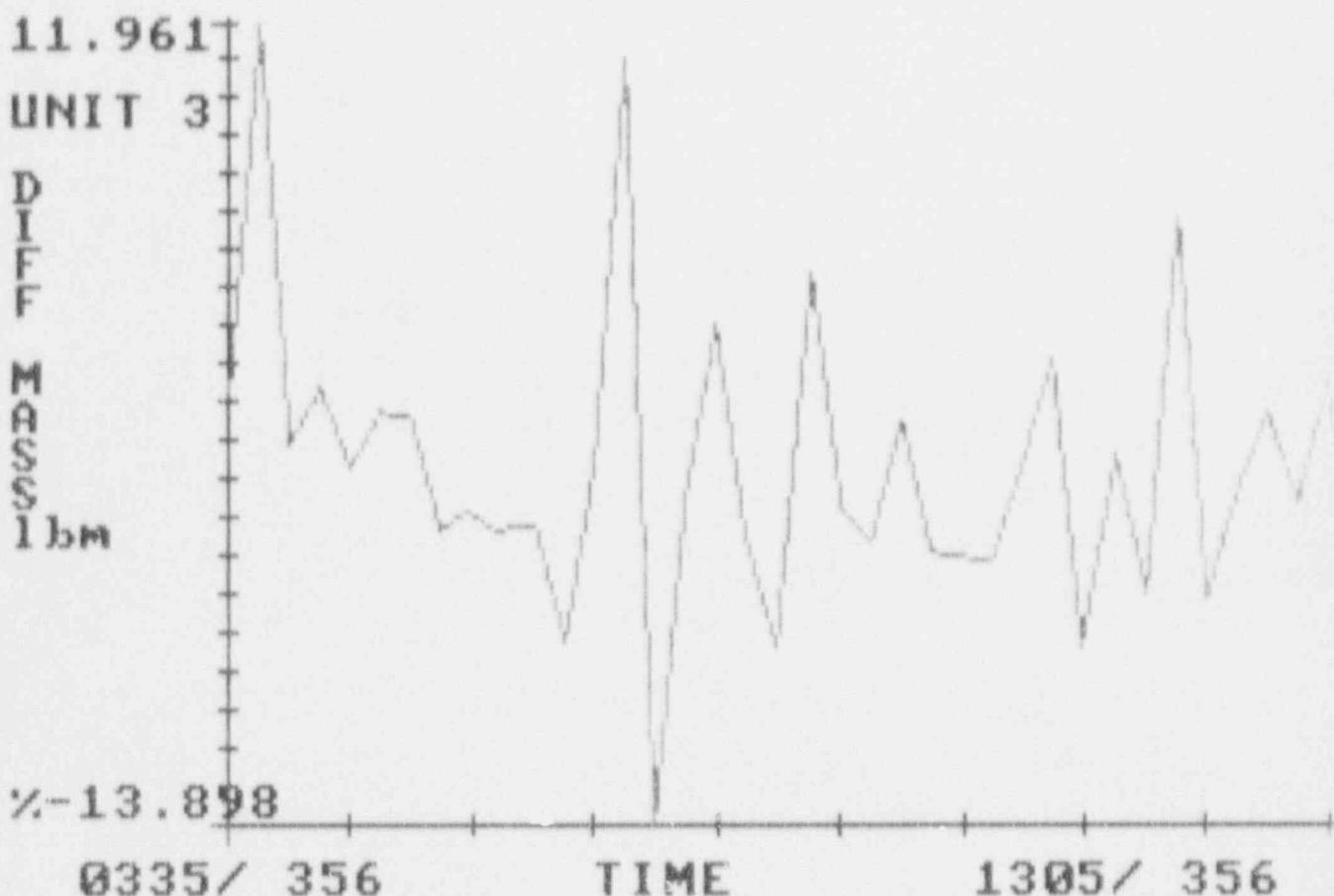
- 1 - MANUAL DATA ENTRY
- 2 - PARAMETER GRAPHS
- 3 - SENSOR PLOTS
- 4 - SENSOR DIFFERENTIALS
- 5 - ANSI STABILIZATION CRITERIA
- 6 - BN-TOP-1 STAB CRITERIA
- 7 - ANSI CRITERIA PRINTOUT
- 8 - BN-TOP-1 CRITERIA PRINTOUT
- 9 - REPRINT CURRENT DATA POINT
- P - PASS WORD MENU
- 0 - FLASH OFF

OF DATA POINTS = 38
MODE DURATION (7N HRS) = 9.5
TOT TIME MEASURED LEAK = 0.2418
TOT TIME CALCULATED LEAK = 0.4055
TOT TIME 95% UCL = 0.8320
MASS PT LEAK = 0.2899
MASS PT 95% UCL = 0.3007

ANSI TEMPERATURE STABILIZATION CRITERIA MET
BN-TOP TEMPERATURE STABILIZATION CRITERIA MET

POINT SUMMARY: CURRENT VALUE/DIFFERENCE FROM PREVIOUS POINT

AVG TEMP:	67.092/ -0.063	AVG PRESS:	64.529/ -0.009
MASS:	97178.74/ -2.133	AVG DEW PRESS:	0.2176/-0.0008
		TOTAL PRESS:	64.747/ -0.010



STABILIZATION ANSI56.8

TIME	TEMP	56.8	56.8	4-1
		1 HR F/HR	4 HR F/HR	HR
9.50	67.082	0.222	0.205	-0.017
9.25	67.155	0.215	0.206	-0.009
9.00	67.219	0.204	0.202	-0.002
8.75	67.275	0.170	0.200	0.030
8.50	67.314	0.221	0.213	-0.008
8.25	67.370	0.203	0.208	0.003
8.00	67.423	0.206	0.208	0.002
7.75	67.444	0.211	0.248	0.037
7.50	67.535	0.193	0.242	0.049
7.25	67.57	0.212	0.259	0.047
7.00	67.629	.198	0.269	0.070
6.75	67.656	0.217	0.281	0.063
6.50	67.728	0.182	0.288	0.106
6.25	67.785	0.194	0.301	0.107
6.00	67.828	0.198	0.317	0.119
5.75	67.873	0.202	0.335	0.133
5.50	67.910	0.255	0.362	0.107
5.25	67.979	0.215	0.384	0.170
5.00	68.026	0.228	0.412	0.183
4.75	68.075	0.289	0.452	0.163
4.50	68.188	0.271	0.489	0.218
4.25	68.193	0.332	0.482	0.149
4.00	68.255	0.360	0.563	0.203
3.75	68.356	0.348	0.000	-0.348
3.50	68.438	0.342	0.000	-0.342
3.25	68.504	0.377	0.000	-0.377
3.00	68.609	0.381	0.000	-0.381
2.75	68.705	0.390	0.000	-0.390
2.50	68.778	0.438	0.000	-0.438
2.25	68.881	0.478	0.000	-0.478
2.00	68.890	0.526	0.000	-0.526
1.75	68.094	0.581	0.000	-0.581
1.50	68.214	0.669	0.000	-0.669
1.25	68.359	0.761	0.000	-0.761
1.00	68.516	0.981	0.000	-0.981
0.75	68.675	0.000	0.000	0.000
0.50	68.883	0.000	0.000	0.000
0.25	70.120	0.000	0.000	0.000

BN-TOP-1 STABLIZATION CRITERIA

TIME	TEMP	BN dT	BN dT2
9.50	67.0921	-0.2214	-0.0503
9.25	67.1555	-0.2088	-0.0152
9.00	67.2190	-0.2050	-0.0598
8.75	67.2748	-0.1903	0.0673
8.50	67.3140	-0.2072	0.0006
8.25	67.3703	-0.2073	-0.0188
8.00	67.4227	-0.2027	0.0460
7.75	67.4444	-0.2142	-0.1061
7.50	67.5350	-0.1876	0.0608
7.25	67.5732	-0.2028	-0.0175
7.00	67.6291	-0.1985	0.0449
6.75	67.6555	-0.2097	0.0358
6.50	67.7283	-0.2187	-0.0578
6.25	67.7850	-0.2042	0.0378
6.00	67.8281	-0.2137	0.1127
5.75	67.8728	-0.2503	0.0544
5.50	67.9102	-0.2639	0.0642
5.25	67.9789	-0.2800	0.0869
5.00	68.0261	-0.3017	0.0436
4.75	68.0749	-0.3126	0.0221
4.50	68.1856	-0.3181	0.1434
4.25	68.1934	-0.3539	0.0758
4.00	68.2554	-0.3729	0.0333
3.75	68.3565	-0.3690	0.0806
3.50	68.4380	-0.3891	0.1536
3.25	68.5040	-0.4275	0.1033
3.00	68.6088	-0.4534	0.1268
2.75	68.7049	-0.4851	0.2690
2.50	68.7782	-0.5523	0.2675
2.25	68.8814	-0.6192	0.5566
2.00	68.9898	-0.7583	0.0000
1.75	69.0944	0.0000	0.0000
1.50	69.2142	0.0000	0.0000
1.25	69.3591	0.0000	0.0000
1.00	69.5155	0.0000	0.0000
0.75	69.6750	0.0000	0.0000
0.50	69.8828	0.0000	0.0000
0.25	70.1198	0.0000	0.0000
0.00	70.5065	0.0000	0.0000

AVG. DATA VALUES UNIT # 3

DATE	TIME	T(I)	P(I)	DT(I)	VP(I)	MASS(I)
356	0.00	70.506	65.010	56.909	0.229	97271.84
356	0.25	70.120	64.971	56.834	0.229	97283.80
356	0.50	69.883	64.940	56.728	0.228	97282.14
356	0.75	69.675	64.915	56.704	0.228	97282.38
356	1.00	69.516	64.894	56.601	0.227	97279.94
356	1.25	69.359	64.874	56.482	0.226	97279.38
356	1.50	69.214	64.856	56.446	0.225	97278.69
356	1.75	69.094	64.833	56.405	0.225	97274.21
356	2.00	68.990	64.823	56.320	0.224	97270.45
356	2.25	68.881	64.807	56.281	0.224	97266.09
356	2.50	68.777	64.791	56.218	0.224	97261.82
356	2.75	68.705	64.777	56.189	0.223	97253.85
356	3.00	68.609	64.764	56.106	0.223	97251.50
356	3.25	68.504	64.758	56.087	0.223	97262.27
356	3.50	68.436	64.740	56.011	0.222	97248.38
356	3.75	68.356	64.729	56.003	0.222	97245.09
356	4.00	68.255	64.718	55.931	0.221	97247.27
356	4.25	68.193	64.707	55.967	0.222	97242.46
356	4.50	68.166	64.698	55.944	0.221	97234.32
356	4.75	68.075	64.689	55.950	0.221	97238.16
356	5.00	68.026	64.681	55.938	0.221	97234.51
356	5.25	67.979	64.672	55.926	0.221	97229.80
356	5.50	67.910	64.663	55.930	0.221	97228.85
356	5.75	67.873	64.655	55.881	0.221	97223.79
356	6.00	67.828	64.646	55.856	0.221	97218.55
356	6.25	67.785	64.637	55.839	0.221	97213.15
356	6.50	67.728	64.629	55.788	0.220	97210.88
356	6.75	67.656	64.621	55.794	0.220	97211.94
356	7.00	67.629	64.612	55.745	0.220	97203.80
356	7.25	67.573	64.604	55.706	0.219	97201.80
356	7.50	67.535	64.595	55.702	0.219	97195.33
356	7.75	67.444	64.587	55.672	0.219	97201.08
356	8.00	67.423	64.580	55.669	0.219	97194.56
356	8.25	67.370	64.572	55.667	0.219	97191.44
356	8.50	67.314	64.565	55.637	0.219	97190.86
356	8.75	67.275	64.558	55.649	0.219	97187.41
356	9.00	67.219	64.551	55.594	0.219	97187.80
356	9.25	67.155	64.539	55.577	0.218	97180.88
356	9.50	67.092	64.529	55.470	0.218	97178.74

70.506

UNIT 3

TEMPERATURE

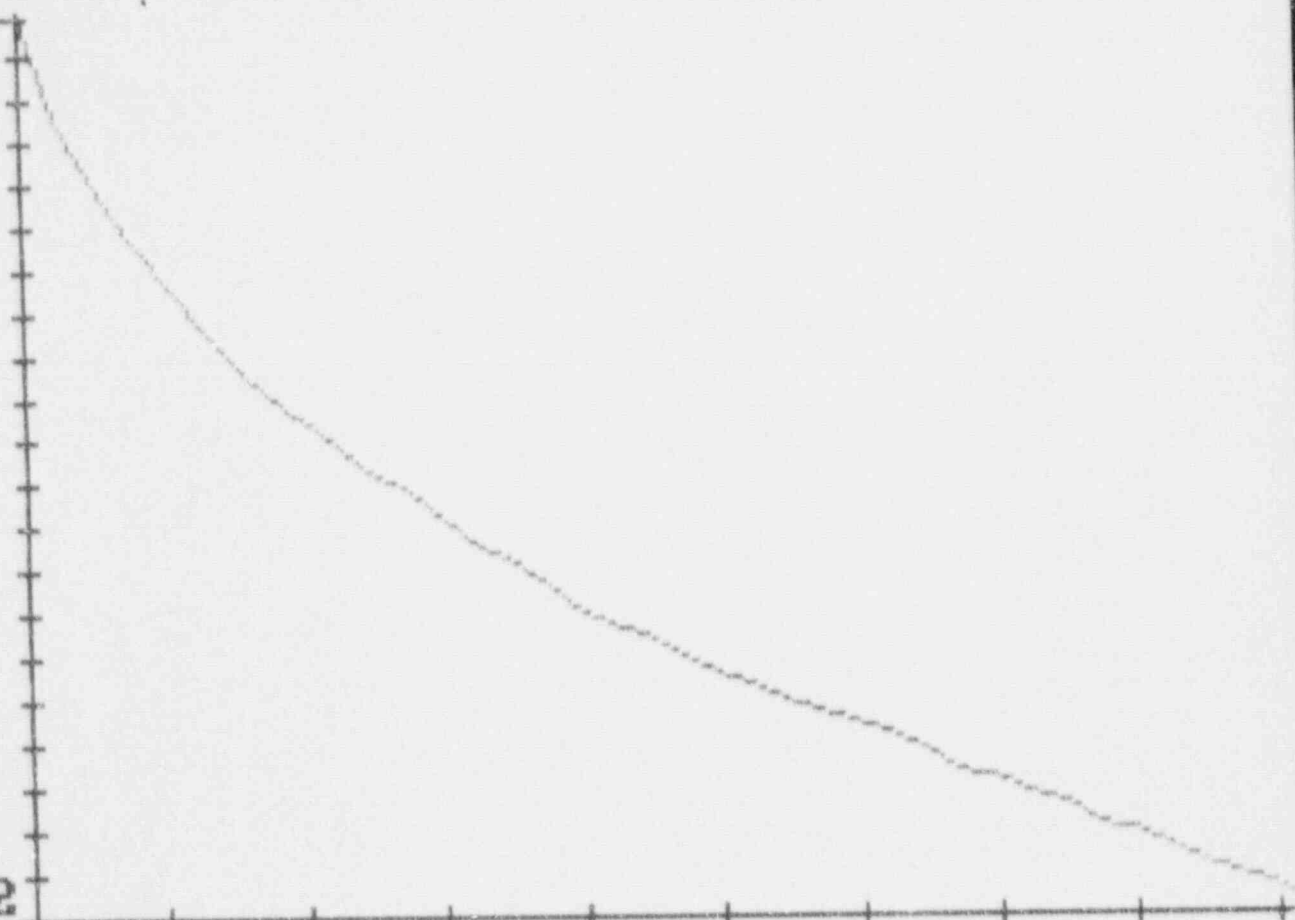
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67.092

0335/ 356

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1305/ 356



65.239

UNIT 3

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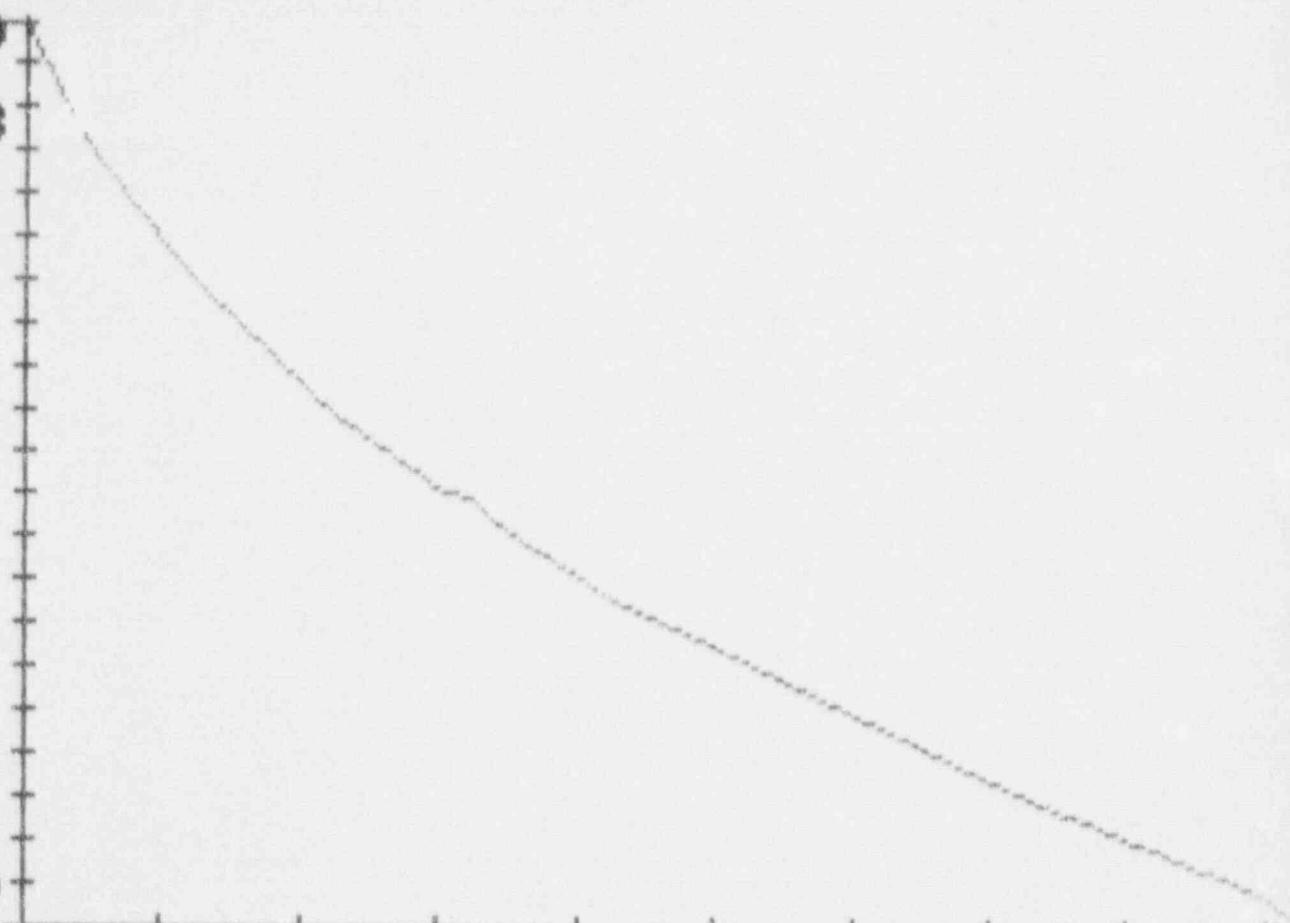
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64.747

0335/ 356

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APPENDIX B

ILRT TEST DATA AND PLOTS

TEST MODE

PLEASE SELECT THE OPTION
YOU WISH TO USE:

TEST DATA 1320

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

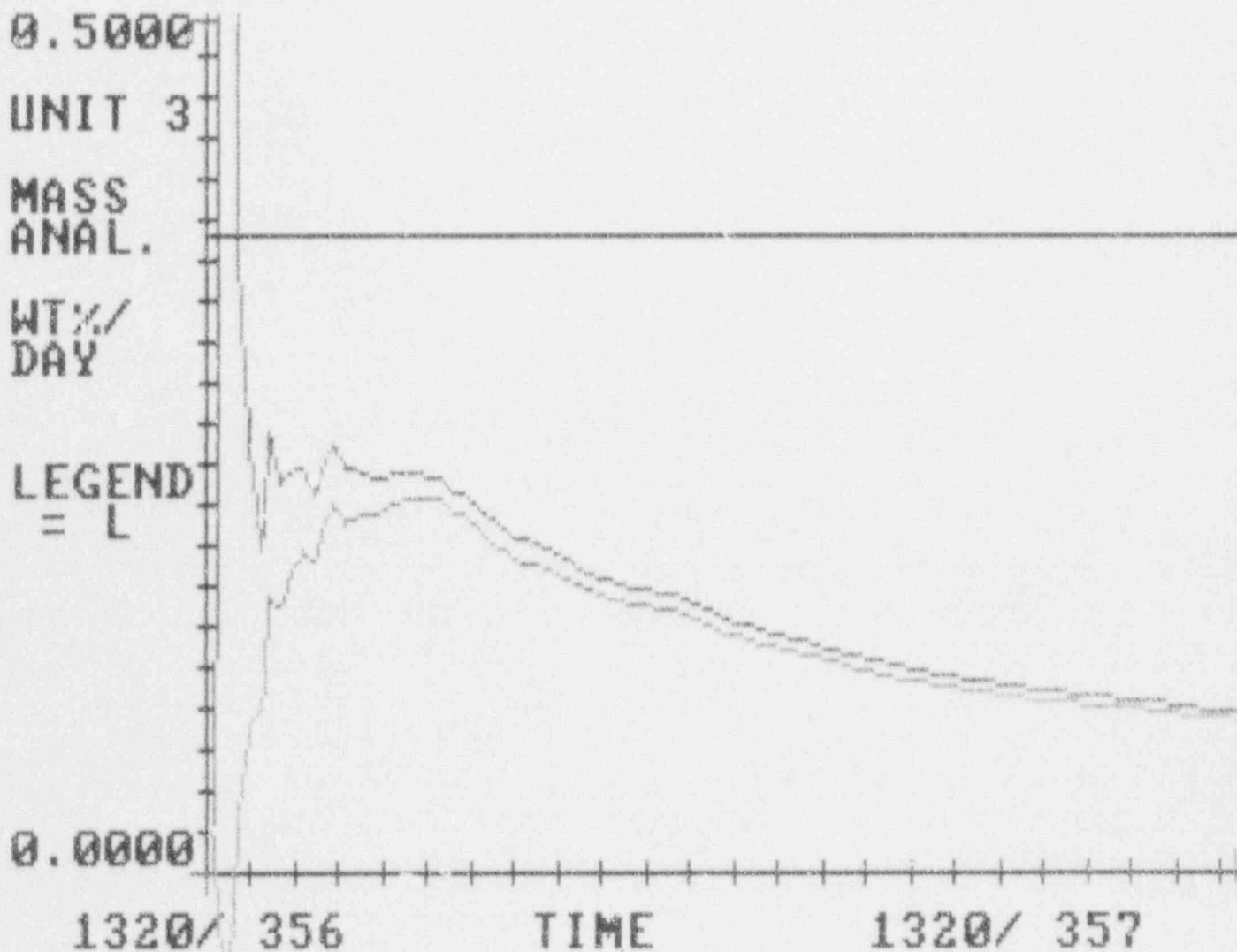
OF DATA POINTS = 95
MODE DURATION (IN HOURS) = 24.000
TOT TIME MEASURED LEAK = 0.0972
TOT TIME CALCULATED LEAK = 0.0967
TOT TIME 95% UCL = 0.1088
MASS POINT LEAK = 0.0889
MASS POINT 95% UCL = 0.0932
75% La = .375
MASS = 97081.44

P - PASS WORD MENU

SELECTED OPTION=

POINT SUMMARY: CURRENT VALUE/DIFFERENCE FROM PREVIOUS POINT

AVG TEMP:	65.415 / +0.013	AVG PRESS:	64.260 / +0.001
MASS:	97081.44 / -0.906	AVG DEW PRESS:	0.2151 / +0.0000
		TOTAL PRESS:	64.475 / +0.001



TEST MODE

PLEASE SELECT THE OPTION
YOU WISH TO USE:

TEST DATA 1320

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

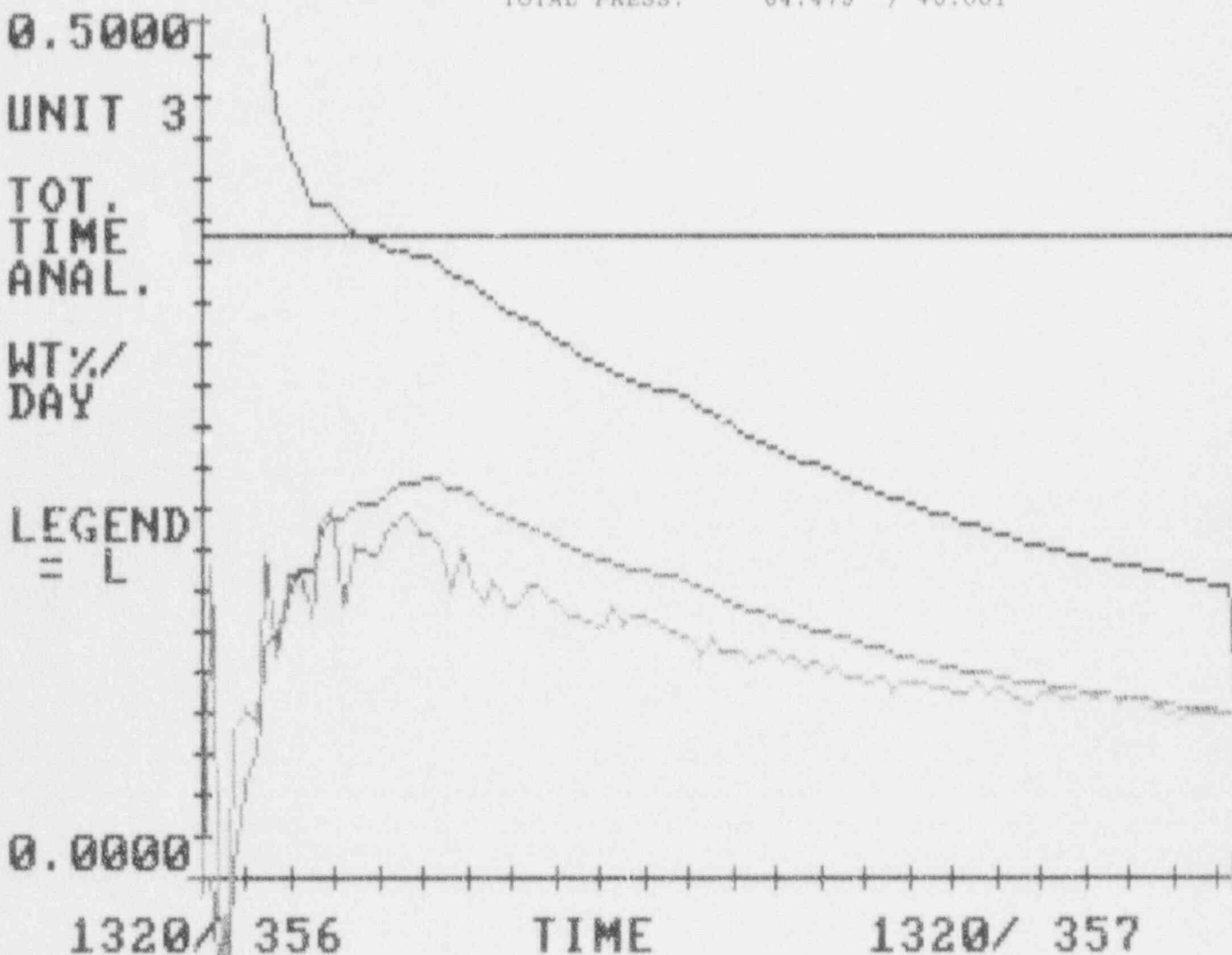
OF DATA POINTS = 95
MODE DURATION (IN HOURS) = 24.000
TOT TIME MEASURED LEAK = 0.0972
TOT TIME CALCULATED LEAK = 0.0967
TOT TIME 95% UCL = 0.1088
MASS POINT LEAK = 0.0889
MASS POINT 95% UCL = 0.0932
75% La = .375
MASS = 97081.44

P - PASS WORD MENU

SELECTED OPTION=

POINT SUMMARY: CURRENT VALUE/DIFFERENCE FROM PREVIOUS POINT

AVG TEMP:	65.415 / +0.013	AVG PRESS:	64.260 / +0.001
MASS:	97081.44 / -0.906	AVG DEW PRESS:	0.2151 / +0.0000
		TOTAL PRESS:	64.475 / +0.001



AVG. DATA VALUES UNIT # 3

DATE	TIME	TEMP	PRESS	DTEMP	VPRESS	MASS
356	0.00	67.046	64.522	55.486	0.218	97176
356	0.25	66.993	64.514	55.377	0.217	97174
356	0.50	66.911	64.507	55.378	0.217	97178
356	0.75	66.869	64.499	55.333	0.217	97173
356	1.00	66.816	64.491	55.265	0.216	97172
356	1.25	66.785	64.487	55.342	0.217	97171
356	1.50	66.817	64.486	55.480	0.218	97164
356	1.75	66.770	64.482	55.525	0.218	97167
356	2.00	66.748	64.476	55.591	0.219	97162
356	2.25	66.717	64.471	55.595	0.219	97160
356	2.50	66.666	64.465	55.575	0.218	97160
356	2.75	66.659	64.459	55.620	0.219	97153
356	3.00	66.625	64.453	55.529	0.218	97149
356	3.25	66.544	64.447	55.510	0.218	97155
356	3.50	66.530	64.440	55.521	0.218	97148
356	3.75	66.494	64.435	55.507	0.218	97147
356	4.00	66.464	64.430	55.423	0.217	97145
356	4.25	66.443	64.425	55.366	0.217	97141
356	4.50	66.413	64.419	55.453	0.217	97138
356	4.75	66.384	64.415	55.392	0.217	97135
356	5.00	66.351	64.410	55.382	0.217	97135
356	5.25	66.333	64.406	55.341	0.217	97133
356	5.50	66.309	64.403	55.365	0.217	97132
356	5.75	66.257	64.399	55.354	0.217	97136
356	6.00	66.267	64.395	55.316	0.216	97125
356	6.25	66.226	64.393	55.295	0.216	97132
356	6.50	66.207	64.391	55.278	0.216	97133
356	6.75	66.240	64.392	55.351	0.217	97128
356	7.00	66.229	64.391	55.459	0.218	97130
356	7.25	66.228	64.391	55.466	0.218	97129
356	7.50	66.245	64.390	55.488	0.218	97124
356	7.75	66.233	64.387	55.493	0.218	97122
356	8.00	66.213	64.385	55.474	0.218	97124
356	8.25	66.198	64.382	55.524	0.218	97122
356	8.50	66.177	64.380	55.477	0.218	97123
356	8.75	66.163	64.378	55.517	0.218	97122
356	9.00	66.154	64.376	55.456	0.217	97121
356	9.25	66.137	64.374	55.469	0.218	97120
356	9.50	66.149	64.372	55.477	0.218	97115
356	9.75	66.117	64.370	55.431	0.217	97118
356	10.00	66.116	64.367	55.435	0.217	97114
356	10.25	66.102	64.364	55.470	0.218	97112
357	11.00	66.049	64.357	55.445	0.217	97111
357	11.25	66.018	64.353	55.400	0.217	97111
357	11.50	65.975	64.350	55.314	0.216	97115
357	11.75	65.975	64.346	55.325	0.216	97109
357	12.00	65.944	64.345	55.285	0.216	97112
357	12.25	65.937	64.342	55.306	0.216	97110
357	12.50	65.930	64.341	55.283	0.216	97109
357	12.75	65.915	64.340	55.295	0.216	97111
357	13.00	65.915	64.338	55.320	0.216	97107

AVG. DATA VALUES UNIT # 3

DATE	TIME	TEMP	PRESS	DTEMP	VPRESS	MASS
357	13.25	65.921	64.337	55.334	0.217	97105
357	13.50	65.900	64.336	55.336	0.217	97107
357	13.75	65.872	64.330	55.265	0.216	97104
357	14.00	65.828	64.327	55.217	0.216	97106
357	14.25	65.831	64.324	55.185	0.215	97102
357	14.50	65.804	64.323	55.157	0.215	97105
357	14.75	65.796	64.320	55.153	0.215	97102
357	15.00	65.766	64.318	55.189	0.215	97105
357	15.25	65.754	64.316	55.154	0.215	97103
357	15.50	65.739	64.314	55.139	0.215	97104
357	15.75	65.736	64.312	55.169	0.215	97100
357	16.00	65.695	64.310	55.160	0.215	97108
357	16.25	65.705	64.307	55.168	0.215	97103
357	16.50	65.698	64.306	55.164	0.215	97099
357	16.75	65.701	64.305	55.160	0.215	97097
357	17.00	65.678	64.303	55.174	0.215	97098
357	17.25	65.664	64.301	55.152	0.215	97098
357	17.50	65.650	64.299	55.134	0.215	97098
357	17.75	65.633	64.297	55.163	0.215	97098
357	18.00	65.645	64.295	55.120	0.215	97093
357	18.25	65.611	64.293	55.098	0.215	97095
357	18.50	65.605	64.291	55.085	0.215	97093
357	18.75	65.575	64.288	55.081	0.215	97094
357	19.00	65.558	64.286	55.062	0.214	97094
357	19.25	65.533	64.284	55.013	0.214	97096
357	19.50	65.545	64.282	55.069	0.214	97091
357	19.75	65.531	64.279	55.079	0.215	97089
357	20.00	65.514	64.277	55.029	0.214	97089
357	20.25	65.504	64.276	54.977	0.214	97090
357	20.50	65.505	64.274	55.006	0.214	97087
357	20.75	65.489	64.272	54.980	0.214	97087
357	21.00	65.486	64.270	54.978	0.214	97085
357	21.25	65.453	64.269	54.952	0.214	97088
357	21.50	65.462	64.267	54.958	0.214	97083
357	21.75	65.453	64.265	54.930	0.213	97082
357	22.00	65.404	64.262	55.002	0.214	97087
357	22.25	65.399	64.261	55.009	0.214	97087
357	22.50	65.384	64.260	55.007	0.214	97087
357	22.75	65.368	64.259	55.015	0.214	97088
357	23.00	65.424	64.263	55.040	0.214	97085
357	23.25	65.447	64.266	55.174	0.215	97086
357	23.50	65.398	64.260	55.132	0.215	97085
357	23.75	65.402	64.259	55.142	0.215	97082
357	24.00	65.415	64.260	55.146	0.215	97081

TOTAL TIME AND MASS POINT ANALYSIS
UNIT # 3

DATE	TIME	TTLM	LMCALC	SL	LAM	L95
356	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
356	0.25	0.1842	0.0000	0.0000	0.0000	0.0000
356	0.50	-.0948	-.0948	0.0000	-.0957	1.2826
356	0.75	0.0866	0.0099	1.8305	0.0408	0.3530
356	1.00	0.1000	0.0583	0.7783	0.0869	0.2447
356	1.25	0.0916	0.0755	0.5328	0.0960	0.1902
356	1.50	0.1877	0.1347	0.5025	0.1608	0.2588
356	1.75	0.1308	0.1420	0.4436	0.1564	0.2270
356	2.00	0.1768	0.1650	0.4245	0.1771	0.2351
356	2.25	0.1775	0.1799	0.4093	0.1887	0.2356
356	2.50	0.1531	0.1812	0.3907	0.1829	0.2211
356	2.75	0.2069	0.1987	0.3909	0.2008	0.2376
356	3.00	0.2172	0.2143	0.3923	0.2161	0.2508
356	3.25	0.1595	0.2097	0.3819	0.2047	0.2366
356	3.50	0.1945	0.2148	0.3778	0.2081	0.2358
356	3.75	0.1917	0.2179	0.3735	0.2092	0.2333
356	4.00	0.1901	0.2197	0.3693	0.2090	0.2301
356	4.25	0.2005	0.2231	0.3669	0.2117	0.2306
356	4.50	0.2063	0.2269	0.3654	0.2151	0.2323
356	4.75	0.2129	0.2312	0.3648	0.2189	0.2349
356	5.00	0.1998	0.2321	0.3624	0.2186	0.2330
356	5.25	0.2009	0.2329	0.3602	0.2186	0.2316
356	5.50	0.1962	0.2327	0.3575	0.2173	0.2293
356	5.75	0.1692	0.2279	0.3531	0.2096	0.2229
356	6.00	0.1922	0.2274	0.3503	0.2085	0.2208
356	6.25	0.1719	0.2237	0.3461	0.2030	0.2155

TOTAL TIME AND MASS POINT ANALYSIS
UNIT # 3

DATE	TIME	TTLM	LMCALC	SL	LAM	L95
356	6.50	0.1624	0.2190	0.3414	0.1964	0.2097
356	6.75	0.1740	0.2165	0.3376	0.1933	0.2060
356	7.00	0.1623	0.2126	0.3332	0.1884	0.2011
356	7.25	0.1590	0.2087	0.3287	0.1834	0.1962
356	7.50	0.1699	0.2065	0.3250	0.1814	0.1935
356	7.75	0.1721	0.2049	0.3218	0.1799	0.1913
356	8.00	0.1612	0.2020	0.3179	0.1770	0.1881
356	8.25	0.1610	0.1994	0.3141	0.1743	0.1851
356	8.50	0.1547	0.1963	0.3102	0.1709	0.1816
356	8.75	0.1530	0.1933	0.3063	0.1678	0.1783
356	9.00	0.1504	0.1303	0.3024	0.1648	0.1752
356	9.25	0.1485	0.1873	0.2985	0.1618	0.1721
356	9.50	0.1583	0.1856	0.2955	0.1605	0.1704
356	9.75	0.1472	0.1829	0.2919	0.1580	0.1677
356	10.00	0.1528	0.1810	0.2888	0.1565	0.1658
356	10.25	0.1527	0.1792	0.2858	0.1552	0.1641
357	11.00	0.1453	0.1779	0.2843	0.1530	0.1617
357	11.25	0.1414	0.1749	0.2803	0.1503	0.1589
357	11.50	0.1306	0.1712	0.2760	0.1464	0.1553
357	11.75	0.1409	0.1687	0.2726	0.1446	0.1532
357	12.00	0.1314	0.1657	0.2687	0.1418	0.1504
357	12.25	0.1326	0.1630	0.2652	0.1394	0.1479
357	12.50	0.1312	0.1604	0.2618	0.1372	0.1456
357	12.75	0.1265	0.1577	0.2583	0.1348	0.1431
357	13.00	0.1305	0.1555	0.2552	0.1329	0.1411
357	13.25	0.1320	0.1536	0.2523	0.1316	0.1395

TOTAL TIME AND MASS POINT ANALYSIS
UNIT # 3

DATE	TIME	TTLM	LMCALC	SL	LAM	L95
357	13.50	0.1263	0.1514	0.2493	0.1297	0.1375
357	13.75	0.1298	0.1496	0.2466	0.1283	0.1360
357	14.00	0.1228	0.1474	0.2437	0.1264	0.1340
357	14.25	0.1275	0.1457	0.2411	0.1252	0.1326
357	14.50	0.1212	0.1437	0.2383	0.1236	0.1309
357	14.75	0.1230	0.1419	0.2358	0.1222	0.1294
357	15.00	0.1174	0.1399	0.2330	0.1205	0.1276
357	15.25	0.1175	0.1380	0.2304	0.1189	0.1260
357	15.50	0.1145	0.1361	0.2277	0.1172	0.1242
357	15.75	0.1182	0.1345	0.2254	0.1159	0.1228
357	16.00	0.1081	0.1323	0.2226	0.1140	0.1209
357	16.25	0.1150	0.1307	0.2203	0.1127	0.1195
357	16.50	0.1148	0.1292	0.2181	0.1115	0.1182
357	16.75	0.1159	0.1278	0.2160	0.1106	0.1172
357	17.00	0.1128	0.1264	0.2139	0.1095	0.1160
357	17.25	0.1115	0.1249	0.2117	0.1084	0.1147
357	17.50	0.1101	0.1234	0.2096	0.1072	0.1135
357	17.75	0.1089	0.1220	0.2075	0.1061	0.1123
357	18.00	0.1138	0.1209	0.2057	0.1054	0.1115
357	18.25	0.1097	0.1196	0.2038	0.1046	0.1106
357	18.50	0.1103	0.1184	0.2020	0.1038	0.1096
357	18.75	0.1075	0.1171	0.2001	0.1029	0.1086
357	19.00	0.1058	0.1159	0.1983	0.1019	0.1076
357	19.25	0.1026	0.1145	0.1963	0.1008	0.1065
357	19.50	0.1077	0.1134	0.1947	0.1001	0.1057
357	19.75	0.1089	0.1125	0.1931	0.0995	0.1050

TOTAL TIME AND MASS POINT ANALYSIS
UNIT # 3

DATE	TIME	TTLM	LMCALC	SL	LAM	L95
357	20.00	0.1068	0.1114	0.1916	0.0989	0.1043
357	20.25	0.1052	0.1104	0.1900	0.0982	0.1035
357	20.50	0.1073	0.1095	0.1885	0.0978	0.1029
357	20.75	0.1058	0.1086	0.1871	0.0972	0.1022
357	21.00	0.1073	0.1078	0.1857	0.0968	0.1017
357	21.25	0.1021	0.1068	0.1842	0.0961	0.1010
357	21.50	0.1064	0.1060	0.1829	0.0957	0.1005
357	21.75	0.1064	0.1053	0.1817	0.0954	0.1000
357	22.00	0.0993	0.1043	0.1802	0.0946	0.0992
357	22.25	0.0990	0.1033	0.1788	0.0938	0.0984
357	22.50	0.0972	0.1023	0.1773	0.0930	0.0976
357	22.75	0.0943	0.1012	0.1757	0.0921	0.0966
357	23.00	0.0971	0.1002	0.1743	0.0913	0.0958
357	23.25	0.0958	0.0993	0.1729	0.0906	0.0951
357	23.50	0.0958	0.0984	0.1716	0.0900	0.0944
357	23.75	0.0972	0.0975	0.1703	0.0894	0.0937
357	24.00	0.0972	0.0967	0.1088	0.0889	0.0932

64.522

UNIT 3

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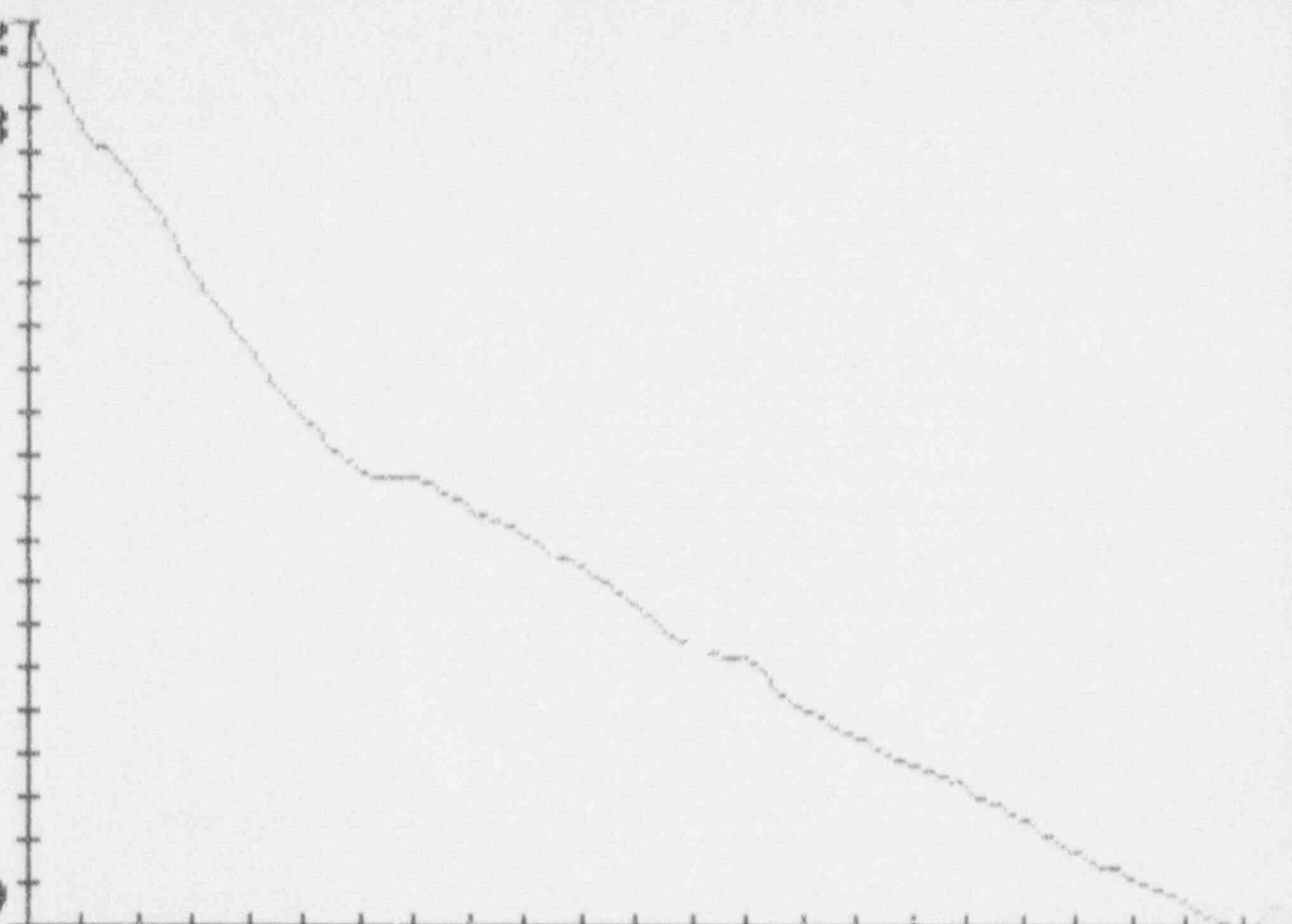
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64.259

1320/ 356

TIME

1320/ 357



67.0467

UNIT 3

TEMPERATURE

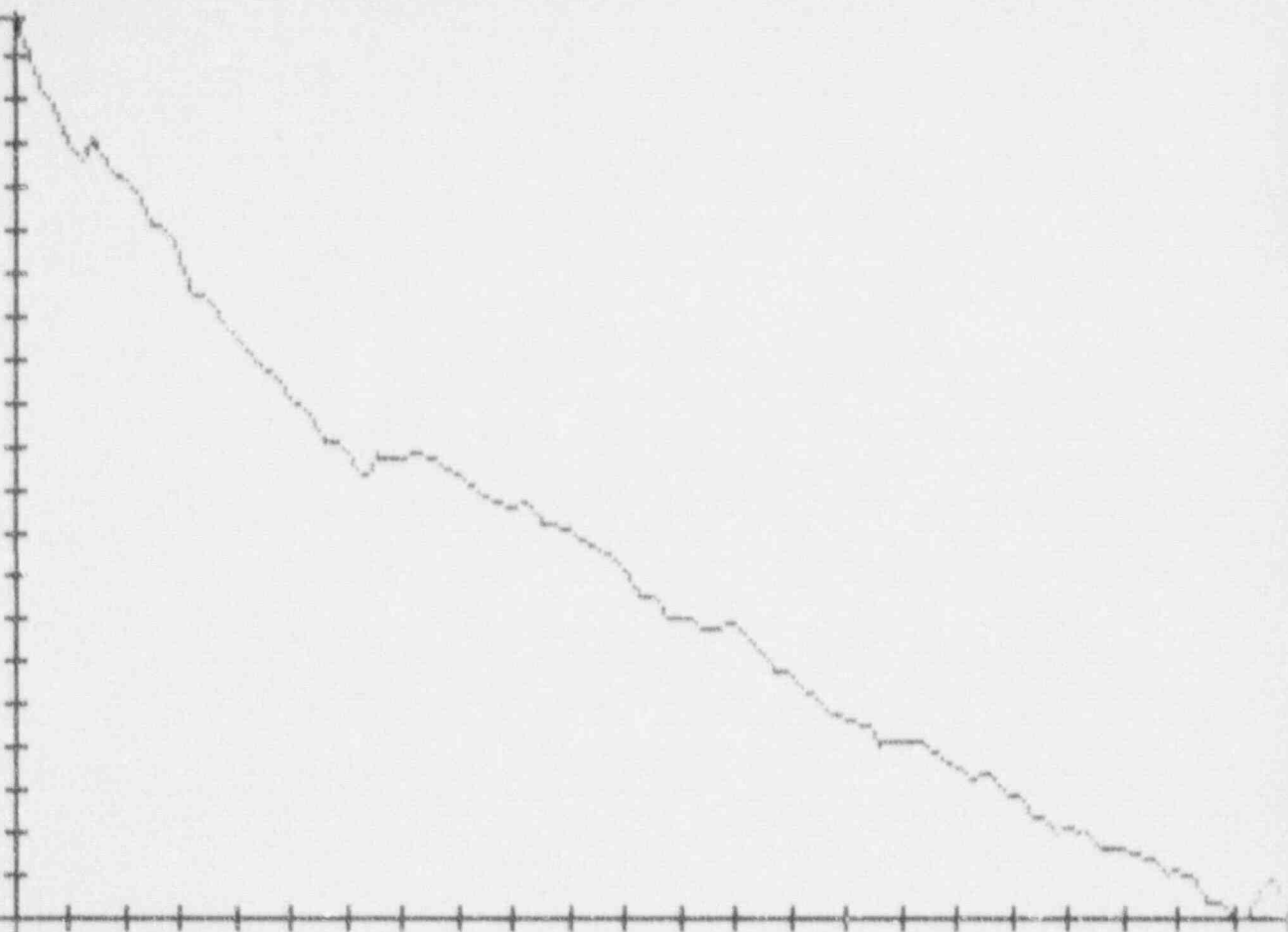
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65.368

1320/ 356

TIME

1320/ 357



55.620

UNIT 3

AUG
DEW
TEMP

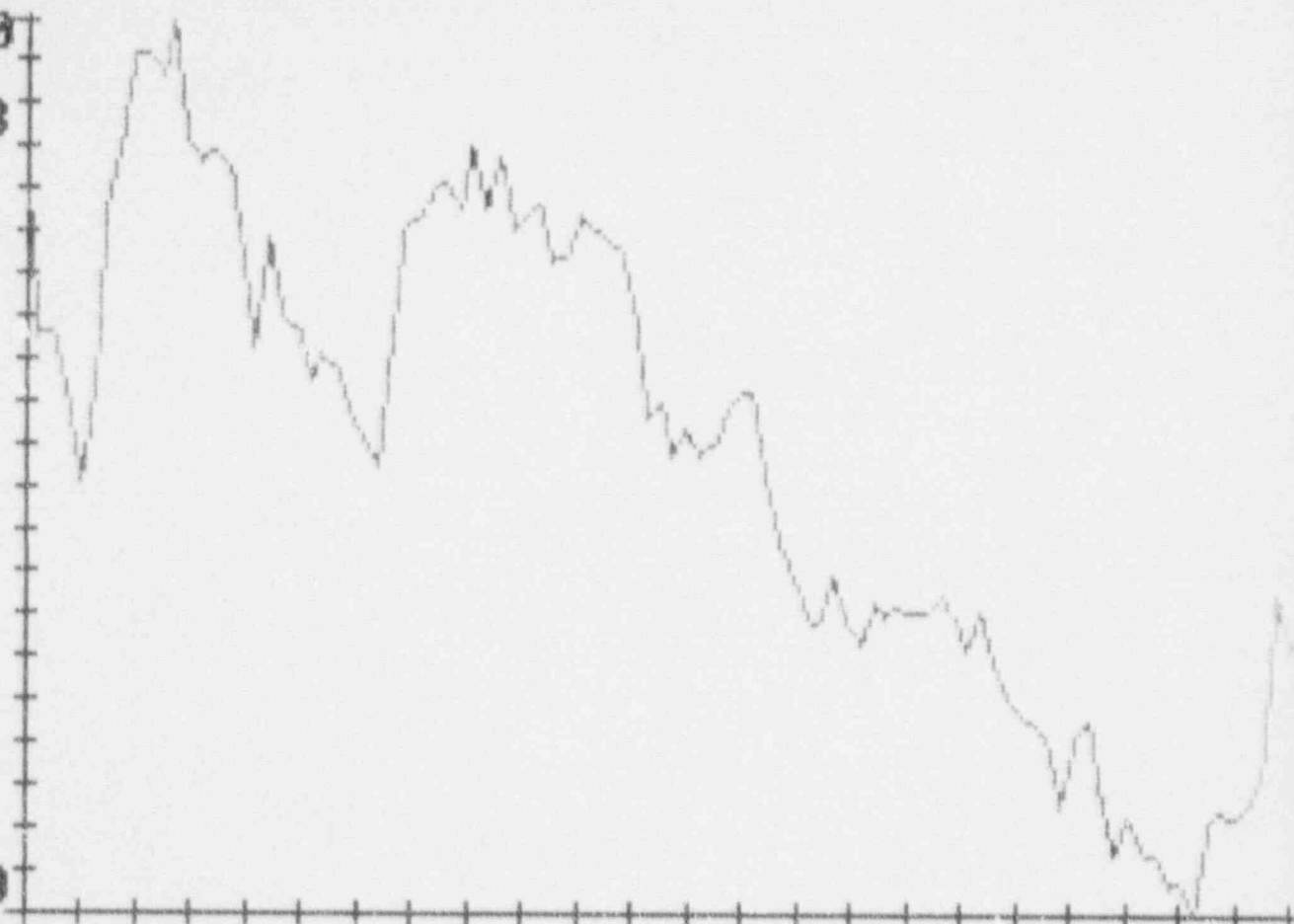
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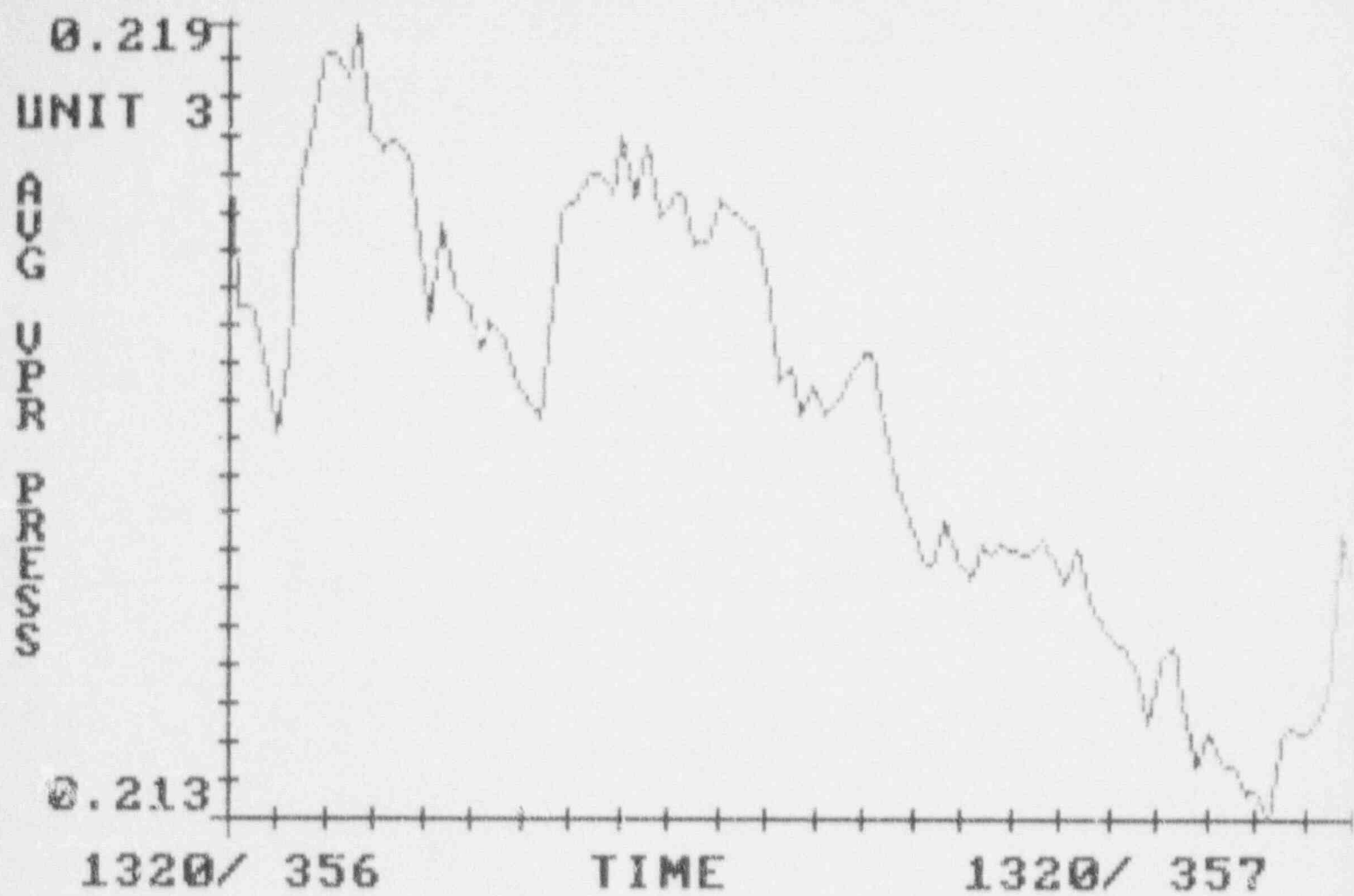
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1320/ 356

TIME

1320/ 357





0.9718

UNIT 3

MASS

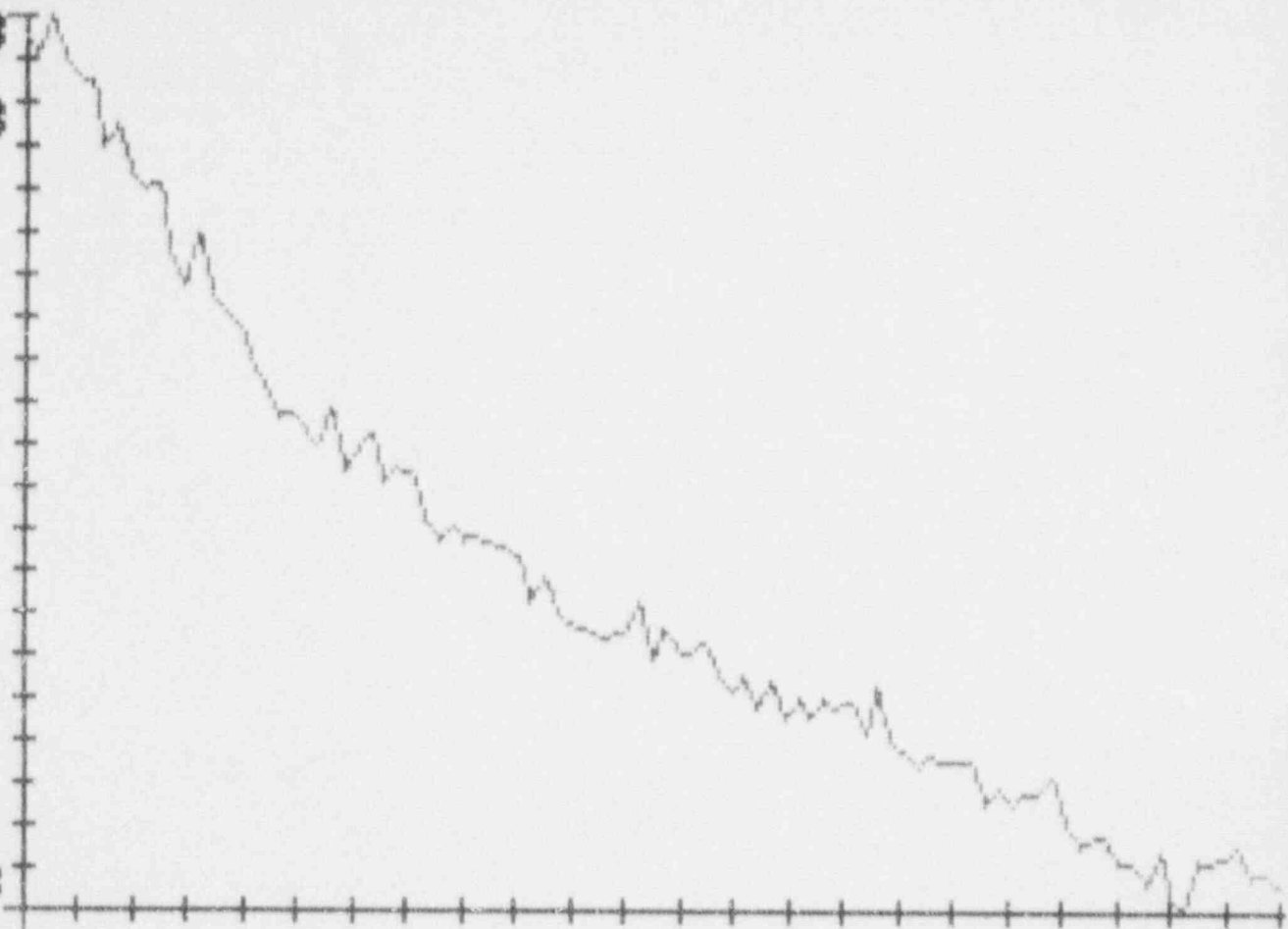
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 $\times 10^5$

0.9708

1320/ 356

TIME

1320/ 357



PEACH BOTTOM J
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 356
TIME : 13:20

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63752	2	+65698

RIDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+94.604	2	+93.524	3	+61.184
4	+62.431	5	+61.341	6	+61.900
7	+58.064	8	+57.176	9	+54.281
10	+66.696	11	+66.928	12	+67.170

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.984	2	+47.422
3	+47.848	4	+46.836
5	+64.212	6	+65.972

AVERAGE TEMPERATURE = +67.0456 DEG. F
AVERAGE PRESSURE = +64.7396 PSIA
MASS = +97175.84
AVG DEW POINT TEMP = +55.4862 DEG. F
AVG VAPOR PRESSURE = +0.2177 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 356
TIME : 13:35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63743	2	+65490

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+94.526	2	+93.487	3	+61.142
4	+62.394	5	+61.172	6	+61.795
7	+58.139	8	+57.096	9	+54.252
10	+66.661	11	+66.893	12	+67.143

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.990	2	+47.287
3	+47.685	4	+46.783
5	+64.239	6	+45.879

AVERAGE TEMPERATURE = +66.9931 DEG. F
AVERAGE PRESSURE = +64.7311 PSIA
MASS = +97173.98
AVG DEW POINT TEMP = +55.3773 DEG. F
AVG VAPOR PRESSURE = +0.2169 PSIA

PEACH BOTTOM
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 556
TIME : 14:20

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+83719	2	+55666

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+94.355	2	+93.347	3	+60.908
4	+62.175	5	+60.917	6	+61.651
7	+52.815	8	+56.753	9	+64.119
10	+66.532	11	+66.754	12	+67.015

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.436	2	+47.115
3	+47.328	4	+46.722
5	+64.132	6	+65.768

AVERAGE TEMPERATURE = +66.8159 DEG. F
AVERAGE PRESSURE = +64.7070 PSIA
MASS = +97171.80
AVG DEW POINT TEMP = +55.2652 DEG. F
AVG VAPOR PRESSURE = +0.2160 PSIA

PEACH BOTTOM 3
 INTEGRATED LEAK RATE TEST
 DATA POINT SUMMARY SHEET

TEST MODE : TEST
 DATE : 556
 TIME : 14150

Pressure Instruments in Counts

channel	pressure	channel	pressure
1	+63716	2	+65643

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+94.335	2	+93.347	3	+61.007
4	+62.190	5	+60.862	6	+61.643
7	+57.952	8	+56.919	9	+54.341
10	+66.507	11	+66.729	12	+66.943

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.456		+47.471
3	+47.946	4	+47.027
5	+64.111	6	+65.812

AVERAGE TEMPERATURE = +66.8173 DEG. F
 AVERAGE PRESSURE = +64.7040 PSIA
 MASS = +97154.45
 AVG DEW POINT TEMP = +55.4797 DEG. F
 AVG VAPOR PRESSURE = +0.2172 PSIA

PEACH BOTTOM 3
 INTEGRATED LEAK RATE TEST
 DATA POINT SUMMARY SHEET

TEST MODE : TEST
 DATE : 358
 TIME : 15:35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63763	2	+65647

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+94.323	2	+93.229	3	+60.911
4	+62.133	5	+60.894	6	+61.577
7	+57.846	8	+56.816	9	+53.949
10	+66.413	11	+66.650	12	+66.853

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+79.299	2	+47.735
3	+48.210	4	+47.248
5	+64.082	6	+65.751

AVERAGE TEMPERATURE = +66.7173 DEG. F
 AVERAGE PRESSURE = +64.6895 PSIA
 MASS = +27155.66
 AVG DEW POINT TEMP = +38.5950 DEG. F
 AVG VAPOR PRESSURE = +0.2186 PSIA

PEACH BOTTOM 3
 INTEGRATED LEAK RATE TEST
 DATA POINT SUMMARY SHEET

TEST MODE : TEST
 DATE : 12-3-56
 TIME : 4:12:35

Pressure Instruments in Points

channel	pressure	channel	pressure
1	+63656	2	+65577

WDE in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+94.039	2	+73.019	3	+60.520
4	+61.892	5	+60.203	6	+61.234
7	+57.579	8	+56.398	9	+53.700
10	+66.247	11	+66.468	12	+66.691

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+74.891	2	+47.462
3	+47.892	4	+47.050
5	+64.662	6	+65.570

AVERAGE TEMPERATURE = +66.4428 DEG. F
 AVERAGE PRESSURE = +64.6417 PSIA
 MASS = +97141.34
 AVG DEW POINT TEMP = +55.8662 DEG. F
 AVG VAPOR PRESSURE = +0.2168 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 354
TIME : 19:50

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63621	2	+69564

RIDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.804	2	+92.639	3	+60.257
4	+61.351	5	+59.809	6	+60.943
7	+57.368	8	+58.015	9	+53.538
10	+66.108	11	+66.349	12	+66.545

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+80.270	2	+47.424
3	+47.898	4	+46.923
5	+64.025	6	+65.438

AVERAGE TEMPERATURE = +66.2066 DEG. F
AVERAGE PRESSURE = +64.6068 PSIA
MASS = 197133.10
AVG DEW POINT TEMP = +55.2762 DEG. F
AVG VAPOR PRESSURE = +0.2161 PSIA

PEACH BOTTOM 3
 INTEGRATED LEAK RATE TEST
 DATA POINT SUMMARY SHEET

TEST MODE : TEST
 DATE : 1/5
 TIME : 11:05

Pressure Instruments in Count

channel	pressure	channel	pressure
1	+63619	2	+65561

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.757	2	+92.451	3	+60.252
4	+61.410	5	+59.802	6	+61.019
7	+57.333	8	+56.349	9	+53.744
10	+66.116	11	+66.325	12	+66.564

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+81.167	2	+47.744
3	+48.254	4	+47.257
5	+64.046	6	+65.460

AVERAGE TEMPERATURE = +66.2334 DEG. F
 AVERAGE PRESSURE = +64.6043 PSIA
 MASS = 971.1.83
 AVG DEW POINT TEMP = +55.1713 DEG. F
 AVG VAPOR PRESSURE = +9.2178 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODEL 1 TEST
DATE 1-25-68
TIME 12:00

Pressure measurements in pounds

channel	pressure	channel	pressure
1	+63611	2	+65352

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.620	2	+92.509	3	+60.257
4	+61.297	5	+59.739	6	+60.945
7	+57.234	8	+56.054	9	+53.654
10	+66.066	11	+66.310	12	+66.534

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+81.828	2	+47.807
3	+48.234	4	+47.452
5	+64.012	6	+65.446

AVERAGE TEMPERATURE = +66.1635 DEG. F
AVERAGE PRESSURE = +64.5958 PSIA
MASS = +97121.64
AVG DEW POINT TEMP = +55.5166 DEG. F
AVG VAPOR PRESSURE = +0.2180 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 356
TIME : 22:20

Pressure Instruments in circuit

channel	pressure	channel	pressure
1	+53609	2	+55550

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.617	2	+92.543	3	+60.159
4	+81.239	5	+59.745	6	+60.954
7	+87.133	8	+56.131	9	+53.677
10	+66.079	11	+66.305	12	+66.513

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+81.723	2	+47.746
3	+48.263	4	+47.377
5	+64.057	6	+65.350

AVERAGE TEMPERATURE = +66.1542 DEG. F
AVERAGE PRESSURE = +54.5938 PSIA
MASS = +97121.05
AVG DEW POINT TEMP = +55.4565 DEG. F
AVG VAPOR PRESSURE = +0.2175 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA - HT SUMMARY SHEET

TEST MODE : TEST
DATE : 356
TIME : 22:35

Pressure Instruments in Counts

channel	pressure	channel	pressure
1	+83607	2	+65547

RIDA in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.576	7	+92.485	3	+60.137
4	+61.303	5	+59.565	6	+60.928
7	+57.417	8	+56.041	9	+53.723
10	+66.049	11	+66.293	12	+66.510

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+81.344	2	+47.732
3	+48.190	4	+47.377
5	+64.042	6	+65.423

AVERAGE TEMPERATURE = +66.1373 DEG. F
AVERAGE PRESSURE = +64.5913 PSIA
MASS = +97120.24
AVG DEW POINT TEMP = +55.4695 DEG. F
AVG VAPOR PRESSURE = +0.2176 PSIA

BEACH BOTTOM 3
 INTEGRATED LEAK RATE TEST
 DATA POINT SUMMARY SHEET

TEST MODE : TEST
 DATE : 356
 TIME : 22:50

Pressure Instruments in counts

channel	pressure	chan	pressure
1	+63605	2	+65948

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.618	2	+92.499	3	+60.127
4	+61.238	5	+59.736	6	+60.925
7	+57.284	8	+56.105	9	+53.681
10	+66.055	11	+66.790	12	+65.321

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+81.176	2	+47.930
3	+48.196	4	+47.184
5	+64.057	6	+65.437

AVERAGE TEMPERATURE = +66.1491 DEG. F
 AVERAGE PRESSURE = +64.5893 PSIA
 MASS = +97114.95
 AVG DEW POINT TEMP = +55.4720 DEG. F
 AVG VAPOR PRESSURE = +0.2177 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 01:03

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63577	2	+65518

RTPs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.415	2	+92.204	3	+59.918
4	+61.013	5	+59.439	6	+60.668
7	+56.736	8	+53.812	9	+53.431
10	+65.797	11	+66.238	12	+66.468

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+75.224	2	+47.593
3	+49.002	4	+47.178
5	+64.056	6	+65.321

AVERAGE TEMPERATURE = +65.9752 DEG. F
AVERAGE PRESSURE = +64.5628 PSIA
MASS = +97108.84
AVE DEW POINT TEMP = +55.3252 DEG. F
AVG VAPOR PRESSURE = +0.2165 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 02:20

Pressure Instruments in Court

channel	pressure	channel	pressure
1	+63571	2	+65509

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.231	2	+92.167	3	+59.850
4	+60.882	5	+59.307	6	+60.600
7	+56.979	8	+55.766	9	+53.472
10	+65.965	11	+66.210	12	+66.407

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.913	2	+47.509
3	+48.120	4	+47.178
5	+64.044	6	+65.281

AVERAGE TEMPERATURE = +65.9151 DEG. F
AVERAGE PRESSURE = +64.5543 PSIA
MASS = +97107.14
AVG DEW POINT TEMP = +55.3202 DEG. F
AVG VAPOR PRESSURE = +0.2164 PSIA

FEACH BOTTOM 3
 INTEGRATED LEAK RATE TEST
 DATA POINT SUMMARY SHEET

TEST MODE : TEST
 DATE : 357
 TIME : 02:50

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63569	2	+65507

RIDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.168	2	+92.102	3	+59.977
4	+60.928	5	+59.190	6	+60.391
7	+56.820	8	+55.809	9	+53.410
10	+45.976	11	+66.200	12	+66.410

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+80.166	2	+47.666
3	+48.080	4	+47.103
5	+63.998	6	+65.307

AVERAGE TEMPERATURE = +63.8995 DEG. F
 AVERAGE PRESSURE = +64.5523 PSIA
 MASS = +97106.81
 AVG DEW POINT TEMP = +55.2361 DEG. F
 AVG VAPOR PRESSURE = +0.2165 PSIA

PEACH BOTTOM 3
 INTEGRATED LEAK RATE TEST
 DATA POINT SUMMARY SHEET

TEST MODE : TEST
 DATE : 357
 TIME : 03:05

Pressure instruments in counts

channel	pressure	channel	pressure
1	+63563	2	+65501

RIDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.196	2	+92.141	3	+59.770
4	+60.890	5	+59.138	6	+60.559
7	+56.909	8	+59.696	9	+53.511
10	+65.953	11	+66.191	12	+66.424

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+79.524	2	+47.551
3	+47.950	4	+47.081
5	+63.981	6	+65.264

AVERAGE TEMPERATURE = +65.8724 DEG. F
 AVERAGE PRESSURE = +64.5463 PSIA
 MASS = +97103.59
 AVG DEW POINT TEMP = +55.2650 DEG. F
 AVG VAPOR PRESSURE = +0.2160 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 03120

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63559	1	+65497

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.104	2	+92.088	3	+59.701
4	+60.810	5	+59.137	6	+60.449
7	+56.787	8	+55.596	9	+53.219
10	+65.963	11	+66.186	12	+66.410

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+77.816	2	+47.387
3	+47.950	4	+47.045
5	+64.005	6	+65.232

AVERAGE TEMPERATURE = +65.9284 DEG. F
AVERAGE PRESSURE = +64.5423 PSIA
MASS = +97106.24
AVG DEW POINT TEMP = +55.2173 DEG. F
AVG VAPOR PRESSURE = +0.2156 PSIA

PEACH BOTTOM 3
 INTEGRATED LEAK RATE TEST
 DATA POINT SUMMARY SHEET

TEST MODE : TEST
 DATE : 357
 TIME : 03:35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63356	2	+63495

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.167	2	+92.099	3	+59.718
4	+60.797	5	+59.161	6	+60.464
7	+56.742	8	+55.596	9	+53.187
10	+65.957	11	+66.180	12	+66.410

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+78.172	2	+47.399
3	+47.895	4	+46.995
5	+63.966	6	+65.202

AVERAGE TEMPERATURE = +65.8313 DEG. F
 AVERAGE PRESSURE = +64.5397 PSIA
 MASS = +97102.30
 AVG DEW POINT TEMP = +55.1853 DEG. F
 AVG VAPOR PRESSURE = +0.2154 PSIA

PEACH BOTTOM 3
 INTEGRATED LEAK RATE TEST
 DATA POINT SUMMARY SHEET

TEST MODE : TEST
 DATE : 357
 TIME : 03:50

Pressure Instruments in Counts

channel	pressure	channel	pressure
1	+63554	2	+65493

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.135	2	+91.911	3	+59.413
4	+60.751	5	+59.083	6	+60.424
7	+56.749	8	+55.780	9	+53.210
10	+65.928	11	+66.174	12	+66.406

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+47.418	2	+47.345
3	+47.845	4	+46.875
5	+64.019	6	+65.753

AVERAGE TEMPERATURE = +55.8038 DEG. F
 AVERAGE PRESSURE = +41.5377 PSIA
 MASS = +97104.67
 AVG DEW POINT TEMP = +55.1574 DEG. F
 AVG VAPOR PRESSURE = +6.1151 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 04:05

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63552	2	+65490

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.083	2	+91.996	3	+59.684
4	+80.745	5	+59.117	6	+60.392
7	+56.698	8	+55.677	9	+53.207
10	+65.930	11	+66.188	12	+66.372

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+76.228	2	+47.338
3	+47.830	4	+48.954
5	+63.990	6	+65.200

AVERAGE TEMPERATURE	=	+65.7959	DEG. F
AVERAGE PRESSURE	=	+64.5352	PSIA
MASS	=	+97102.41	
AVG DEW POINT TEMP	=	+55.1525	DEG. F
AVG VAPOR PRESSURE	=	+0.2151	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 04:20

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63550	2	+65488

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.074	2	+91.972	3	+59.658
4	+80.725	5	+53.982	6	+60.380
7	+58.701	8	+55.523	9	+53.218
10	+63.919	11	+66.159	12	+66.368

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+81.086	2	+47.316
3	+47.769	4	+47.033
5	+63.978	6	+65.292

AVERAGE TEMPERATURE	=	+65.7658	DEG. F
AVERAGE PRESSURE	=	+C4.5332	PSIA
MASS	=	+97104.52	
AVG DEW POINT TEMP	=	+55.1887	DEG. F
AVG VAPOR PRESSURE	=	+0.2154	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 04:35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+83548	2	+85485

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.038	2	+91.937	3	+59.626
4	+60.690	5	+58.927	6	+60.365
7	+56.733	8	+55.534	9	+53.201
10	+65.916	11	+66.156	12	+66.384

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+81.958	2	+47.435
3	+47.758	4	+46.833
5	+63.972	6	+65.251

AVERAGE TEMPERATURE = +65.7543 DEG. F
AVERAGE PRESSURE = +64.5307 PSIA
MASS = +97103.30
AVG DEW POINT TEMP = +55.1540 DEG. F
AVG VAPOR PRESSURE = +0.2151 PSIA

PEACH BOT TOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 04:50

Pressure instruments in counts

channel	pressure	channel	pressure
1	+63546	2	+65484

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.106	2	+91.917	3	+59.628
4	+60.646	5	+58.900	6	+60.359
7	+56.701	8	+55.508	9	+53.221
10	+65.899	11	+66.148	12	+66.345

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.301	2	+47.381
3	+47.746	4	+46.862
5	+63.946	6	+65.232

AVERAGE TEMPERATURE = +65.7392 DEG. F
AVERAGE PRESSURE = +64.5292 PSIA
MASS = +97103.99
AVG DEW POINT TEMP = +55.1390 DEG. F
AVG VAPOR PRESSURE = +0.2150 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 05:05

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63544	2	+65481

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.991	2	+91.798	3	+59.868
4	+60.670	5	+59.014	6	+60.376
7	+56.842	8	+55.308	9	+53.070
10	+65.914	11	+65.139	12	+66.342

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.321	2	+47.323
3	+47.944	4	+46.850
5	+63.961	6	+65.226

AVERAGE TEMPERATURE	=	+65.7358	DEG. F
AVERAGE PRESSURE	=	+64.5267	PSIA
MASS	=	+97100.49	
AVG DEW POINT TEMP	=	+55.1691	DEG. F
AVG VAPOR PRESSURE	=	+0.2152	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 05:20

Pressure instruments in counts

channel	pressure	channel	pressure
1	+63542	2	+65480

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+93.000	2	+91.723	3	+59.565
4	+60.633	5	+58.915	6	+60.333
7	+56.620	8	+55.291	9	+53.175
10	+65.901	11	+66.133	12	+66.331

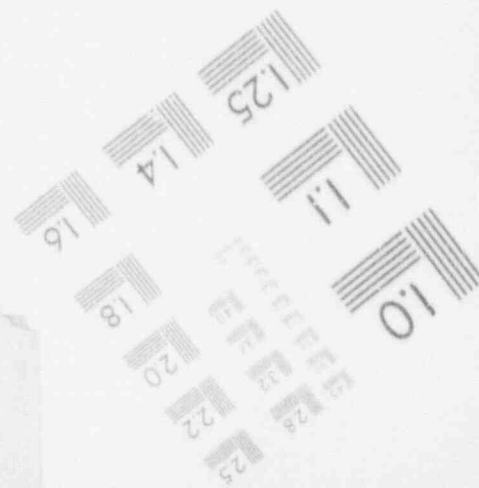
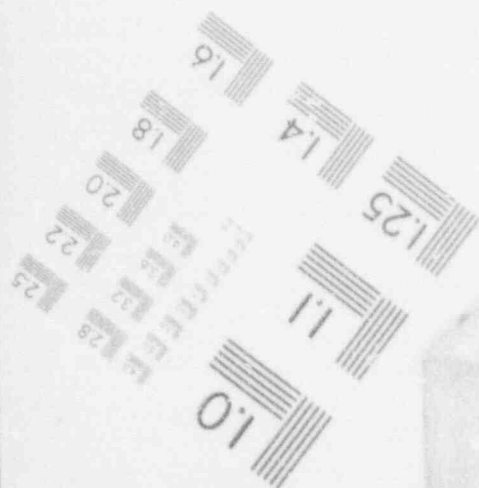
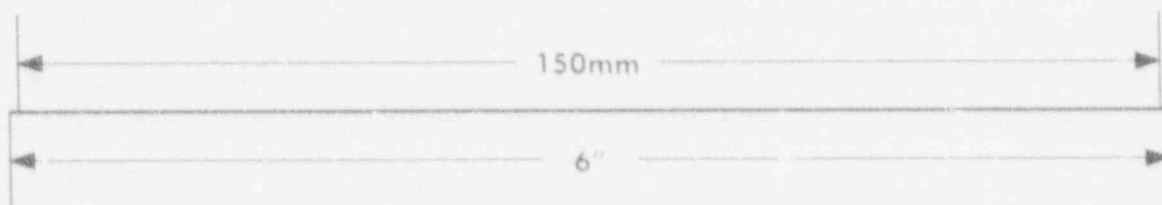
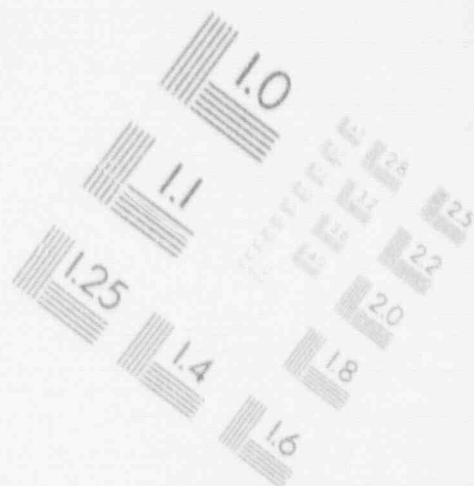
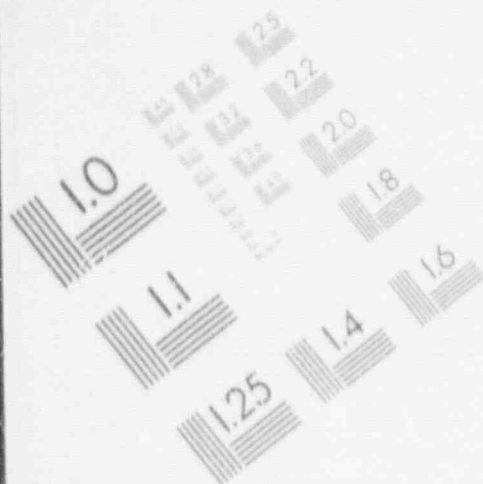
Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.231	2	+47.409
3	+47.798	4	+46.868
5	+63.964	6	+65. 0

AVERAGE TEMPERATURE	=	+65.6954	DEG. F
AVERAGE PRESSURE	=	+64.5252	PSIA
MASS	=	+97105.78	
AVG DEW POINT TEMP	=	+55.1599	DEG. F
AVG VAPOR PRESSURE	=	+0.2152	PSIA

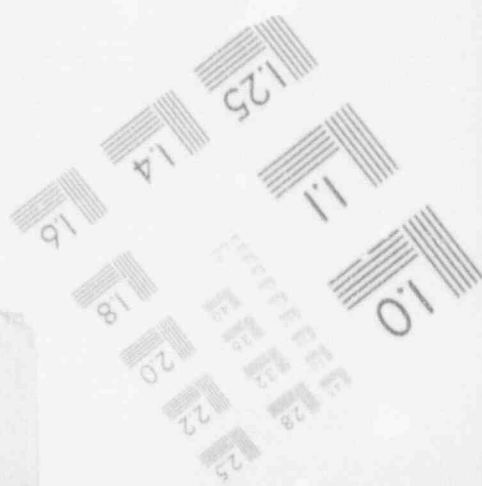
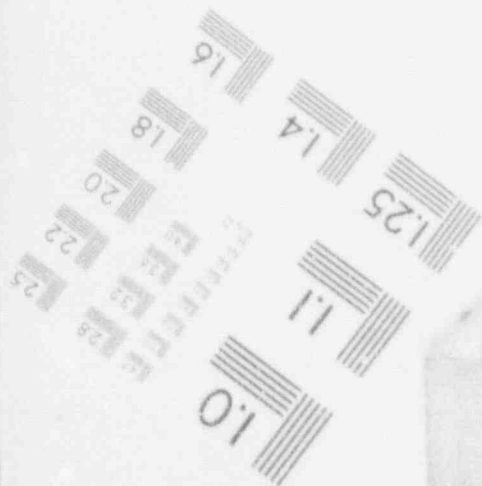
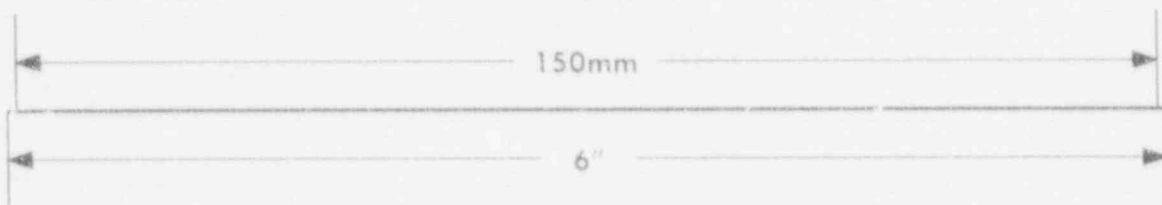
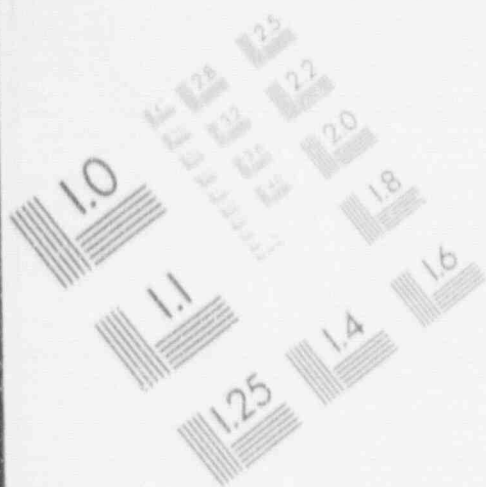
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IMAGE EVALUATION TEST TARGET (MT-3)



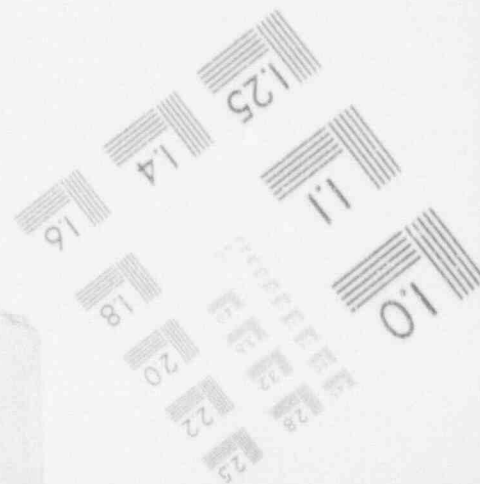
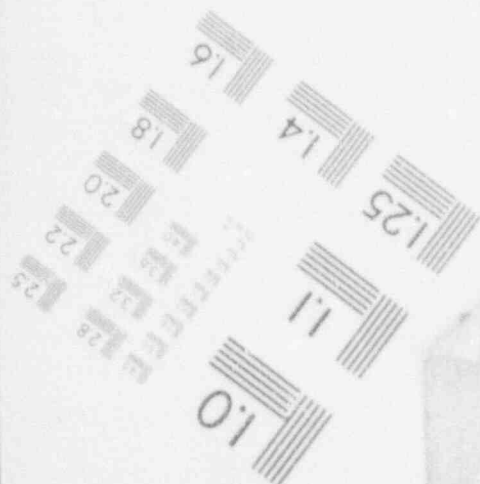
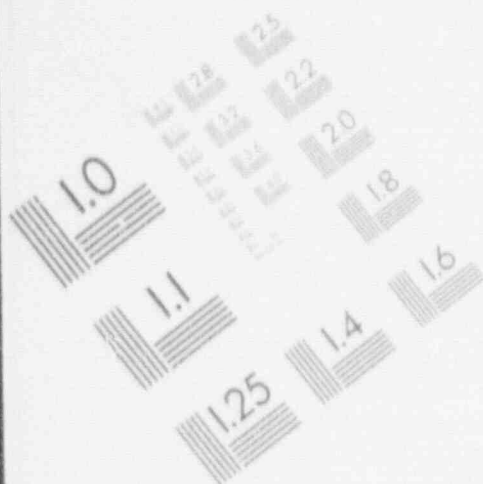
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IMAGE EVALUATION
TEST TARGET (MT-3)



1

IMAGE EVALUATION
TEST TARGET (MT-3)



PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 05:35

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63539	2	+65478

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.970	2	+91.792	3	+59.553
4	+60.855	5	+58.982	8	+60.336
7	+56.558	8	+55.404	9	+53.196
10	+65.893	11	+66.128	12	+66.319

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.191	2	+47.375
3	+47.787	4	+46.876
5	+63.972	6	+65.274

AVERAGE TEMPERATURE	=	+65.7046	DEG. F
AVERAGE PRESSURE	=	+64.5227	PSIA
MASS	=	+97100.20	
AVG DEW POINT TEMP	=	+55.1679	DEG. F
AVG VAPOR PRESSURE	=	+0.2152	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 05:50

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63538	2	+65476

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.996	2	+91.890	3	+59.527
4	+60.589	5	+58.831	6	+60.304
7	+56.654	8	+55.444	9	+53.222
10	+65.901	11	+66.124	12	+66.330

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.313	2	+47.354
3	+47.811	4	+46.977
5	+63.935	6	+65.217

AVERAGE TEMPERATURE = +65.6983 DEG. F
AVERAGE PRESSURE = +64.5212 PSIA
MASS = +97099.14
AVG DEW POINT TEMP = +55.1640 DEG. F
AVG VAPOR PRESSURE = +0.2152 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 06:05

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63537	2	+65475

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.982	2	+91.812	3	+59.567
4	+60.607	5	+58.948	6	+60.304
7	+56.658	8	+55.415	9	+53.150
10	+65.901	11	+66.120	12	+66.308

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.412	2	+47.311
3	+47.830	4	+46.849
5	+63.966	6	+65.269

AVERAGE TEMPERATURE = +65.7008 DEG. F
AVERAGE PRESSURE = +64.5202 PSIA
MASS = +97097.22
AVG DEW POINT TEMP = +55.1599 DEG. F
AVG VAPOR PRESSURE = +0.2152 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 06:20

Pressure instruments in counts

channel	pressure	channel	pressure
1	+63535	2	+65473

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.903	2	+91.754	3	+59.576
4	+60.583	5	+58.804	6	+60.284
7	+56.655	8	+55.510	9	+53.118
10	+65.882	11	+66.113	12	+66.313

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.444	2	+47.288
3	+47.839	4	+46.861
5	+63.987	6	+65.300

AVERAGE TEMPERATURE = +65.6780 DEG. F
AVERAGE PRESSURE = +64.5182 PSIA
MASS = +97098.23
AVG DEW POINT TEMP = +55.1736 DEG. F
AVG VAPOR PRESSURE = +0.2153 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 06:35

Pressure instruments in counts

channel	pressure	channel	pressure
1	+83533	2	+85471

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.889	2	+91.741	3	+59.539
4	+60.594	5	+58.795	6	+60.258
7	+56.884	8	+55.439	9	+53.114
10	+55.864	11	+56.108	12	+56.304

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.550	2	+47.514
3	+47.589	4	+46.943
5	+53.951	6	+65.208

AVERAGE TEMPERATURE = +65.8645 DEG. F
AVERAGE PRESSURE = +64.5182 PSIA
MASS = +97097.98
AVG DEW POINT TEMP = +55.1520 DEG. F
AVG VAPOR PRESSURE = +0.2151 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 08:50

Pressure instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63531	2	+65489

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.921	2	+91.833	3	+59.495
4	+60.551	5	+58.863	6	+60.231
7	+58.539	8	+55.278	9	+53.057
10	+65.884	11	+66.102	12	+66.301

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.673	2	+47.285
3	+47.787	4	+46.865
5	+63.971	6	+65.235

AVERAGE TEMPERATURE = +65.6499 DEG. F
AVERAGE PRESSURE = +64.5142 PSIA
MASS = +97097.86
AVG DEW POINT TEMP = +55.1339 DEG. F
AVG VAPOR PRESSURE = +0.2150 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 07:05

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63529	2	+65467

RTDs in degrees F

channe	temp.	channel	temp.	channel	temp.
1	+92.832	2	+91.839	3	+59.428
4	+80.537	5	+58.711	6	+60.206
7	+56.607	8	+55.394	9	+53.041
10	+65.856	11	+66.098	12	+66.305

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.418	2	+47.389
3	+47.752	4	+47.024
5	+63.387	6	+66.216

AVERAGE TEMPERATURE = +65.6332 DEG. F
AVERAGE PRESSURE = +64.5122 PSIA
MASS = +97097.56
AVG DEW POINT TEMP = +55.1626 DEG. F
AVG VAPOR PRESSURE = +0.2162 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 07:20

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63527	2	+65485

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.907	2	+91.810	3	+59.547
4	+60.499	5	+58.754	6	+60.197
7	+56.689	8	+55.317	9	+53.048
10	+65.870	11	+66.090	12	+66.310

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.469	2	+47.241
3	+47.833	4	+46.841
5	+63.972	6	+65.205

AVERAGE TEMPERATURE = +65.6448 DEG. F
AVERAGE PRESSURE = +64.5102 PSIA
MASS = +97092.91
AVG DEW POINT TEMP = +55.1196 DEG. F
AVG VAPOR PRESSURE = +0.2148 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 07:35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63524	2	+65462

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.805	2	+91.752	3	+59.475
4	+60.472	5	+58.734	6	+60.163
7	+56.521	8	+55.332	9	+52.935
10	+65.861	11	+66.087	12	+66.311

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.389	2	+47.232
3	+47.714	4	+46.858
5	+63.690	6	+65.213

AVERAGE TEMPERATURE = +65.6114 DEG. F
AVERAGE PRESSURE = +64.5072 PSIA
MASS = +97094.80
AVG DEW POINT TEMP = +55.0978 DEG. F
AVG VAPOR PRESSURE = +0.2147 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 07:50

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+83522	2	+85460

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.802	2	+91.770	3	+59.518
4	+80.453	5	+58.717	6	+60.153
7	+56.527	8	+55.331	9	+53.015
10	+65.829	11	+66.079	12	+66.287

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.395	2	+47.268
3	+47.805	4	+46.759
5	+63.929	6	+65.161

AVERAGE TEMPERATURE = +65.6046 DEG. F
AVERAGE PRESSURE = +64.5052 PSIA
MASS = +97093.20
AVG DEW POINT TEMP = +55.0846 DEG. F
AVG VAPOR PRESSURE = +0.2146 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 08:05

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63519	2	+65457

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.741	2	+91.711	3	+59.428
4	+80.400	5	+58.845	6	+60.121
7	+56.420	8	+55.404	9	+52.925
10	+65.834	11	+66.072	12	+66.290

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.417	2	+47.298
3	+47.700	4	+46.817
5	+63.951	6	+65.174

AVERAGE TEMPERATURE	=	+65.5745	DEG. F
AVERAGE PRESSURE	=	+64.5022	PSIA
MASS	=	+97094.26	
AVG DEW POINT TEMP	=	+55.0814	DEG. F
AVG VAPOR PRESSURE	=	+0.2145	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 08:20

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63517	2	+65455

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.788	2	+91.644	3	+59.367
4	+80.429	5	+58.638	6	+60.093
7	+58.381	8	+55.343	9	+52.977
10	+65.823	11	+66.066	12	+66.268

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.391	2	+47.218
3	+47.613	4	+46.803
5	+63.954	6	+65.210

AVERAGE TEMPERATURE = +65.5504 DEG. F
AVERAGE PRESSURE = +64.5002 PSIA
MASS = +97094.41
AVG DEW POINT TEMP = +55.0619 DEG. F
AVG VAPOR PRESSURE = +0.2144 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 08:35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63514	2	+65453

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.773	2	+91.613	3	+59.320
4	+60.386	5	+58.641	6	+60.064
7	+56.326	8	+55.180	9	+52.911
10	+65.831	11	+66.064	12	+66.256

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.344	2	+47.142
3	+47.593	4	+46.757
5	+63.914	6	+65.156

AVERAGE TEMPERATURE = +65.5330 DEG. F
AVERAGE PRESSURE = +64.4977 PSIA
MASS = +97095.91
AVG DEW POINT TEMP = +55.0133 DEG. F
AVG VAPOR PRESSURE = +0.2140 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 08:50

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63513	2	+65451

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.768	2	+91.734	3	+59.382
4	+60.366	5	+58.575	6	+60.066
7	+56.388	8	+55.256	9	+53.002
10	+65.820	11	+66.059	12	+66.262

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.392	2	+47.270
3	+47.679	4	+46.646
5	+63.932	6	+65.235

AVERAGE TEMPERATURE = +65.5447 DEG. F
AVERAGE PRESSURE = +64.4962 PSIA
MASS = +97090.81
AVG DEW POINT TEMP = +55.0694 DEG. F
AVG VAPOR PRESSURE = +0.2145 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 09:05

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63510	2	+65448

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.672	2	+91.619	3	+59.343
4	+60.356	5	+58.580	6	+60.055
7	+56.581	8	+55.221	9	+52.890
10	+65.788	11	+66.067	12	+66.259

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.391	2	+47.422
3	+47.653	4	+46.635
5	+63.937	6	+65.217

AVERAGE TEMPERATURE	=	+65.5309	DEG. F
AVERAGE PRESSURE	=	+64.4932	PSIA
MASS	=	+97088.73	
AVG DEW POINT TEMP	=	+55.0794	DEG. F
AVG VAPOR PRESSURE	=	+0.2145	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 09:20

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63508	2	+65446

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.834	2	+91.661	3	+59.393
4	+60.301	5	+58.567	6	+60.018
7	+56.327	8	+54.969	9	+52.874
10	+65.823	11	+66.062	12	+66.265

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.406	2	+47.247
3	+47.595	4	+46.707
5	+63.920	6	+65.170

AVERAGE TEMPERATURE	=	+65.5142	DEG. F
AVERAGE PRESSURE	=	+64.4911	PSIA
MASS	=	+97089.36	
AVG DEW POINT TEMP	=	+55.0289	DEG. F
AVG VAPOR PRESSURE	=	+0.2141	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 09:35

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63507	2	+65444

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.713	2	+91.555	3	+59.330
4	+60.302	5	+58.558	6	+60.005
7	+56.481	8	+54.988	9	+52.867
10	+65.814	11	+66.066	12	+66.264

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.403	2	+47.041
3	+47.552	4	+46.682
5	+63.906	6	+65.162

AVERAGE TEMPERATURE	=	+65.5040	DEG. F
AVERAGE PRESSURE	=	+64.4897	PSIA
MASS	=	+97089.61	
AVG DEW POINT TEMP	=	+54.9768	DEG. F
AVG VAPOR PRESSURE	=	+0.2137	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 09:50

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63505	2	+65443

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.672	2	+91.615	3	+59.271
4	+60.261	5	+58.615	6	+60.026
7	+53.329	8	+55.136	9	+52.937
10	+53.797	11	+66.059	12	+66.268

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.463	2	+47.061
3	+47.537	4	+46.650
5	+63.922	6	+65.243

AVERAGE TEMPERATURE	=	+65.5048	DEG. F
AVERAGE PRESSURE	=	+64.4881	PSIA
MASS	=	+97086.82	
AVG DEW POINT TEMP	=	+55.0065	DEG. F
AVG VAPOR PRESSURE	=	+0.2140	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 10:05

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63503	2	+65441

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.697	2	+91.619	3	+59.254
4	+60.281	5	+58.502	6	+59.973
7	+56.239	8	+55.169	9	+52.870
10	+65.823	11	+66.059	12	+66.265

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.432	2	+47.047
3	+47.564	4	+46.638
5	+63.951	6	+65.179

AVERAGE TEMPERATURE = +65.4893 DEG. F
AVERAGE PRESSURE = +64.4861 PSIA
MASS = +97086.99
AVG DEW POINT TEMP = +54.9803 DEG. F
AVG VAPOR PRESSURE = +0.2138 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 10:20

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63501	2	+65439

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.668	2	+91.557	3	+59.242
4	+60.292	5	+53.477	6	+59.962
7	+56.352	8	+55.198	9	+52.819
10	+65.814	11	+66.056	12	+66.270

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.461	2	+47.090
3	+47.560	4	+46.522
5	+63.909	6	+65.205

AVERAGE TEMPERATURE	=	+65.4858	DEG. F
AVERAGE PRESSURE	=	+64.4841	PSIA
MASS	=	+97084.62	
AVG DEW POINT TEMP	=	+54.9780	DEG. F
AVG VAPOR PRESSURE	=	+0.2137	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 10:35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63499	2	+65437

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.591	2	+91.609	3	+59.190
4	+60.206	5	+58.522	6	+59.951
7	+56.166	8	+55.012	9	+52.819
10	+65.788	11	+66.050	12	+66.262

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.437	2	+47.187
3	+47.494	4	+46.487
5	+63.932	6	+65.156

AVERAGE TEMPERATURE = +65.4529 DEG. F
AVERAGE PRESSURE = +64.4821 PSIA
MASS = +97087.98
AVG DEW POINT TEMP = +54.9521 DEG. F
AVG VAPOR PRESSURE = +0.2135 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 10:50

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63497	2	+65435

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.625	2	+91.589	3	+59.259
4	+60.202	5	+58.470	6	+59.915
7	+56.247	8	+55.127	9	+52.717
10	+65.821	11	+66.049	12	+66.262

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.403	2	+47.047
3	+47.554	4	+46.608
5	+63.885	6	+65.145

AVERAGE TEMPERATURE = +65.4619 DEG. F
AVERAGE PRESSURE = +64.4801 PSIA
MASS = +97083.22
AVG DEW POINT TEMP = +54.9581 DEG. F
AVG VAPOR PRESSURE = +0.2136 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 11:05

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63495	2	+65433

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.729	2	+91.557	3	+59.199
4	+60.165	5	+58.473	6	+59.896
7	+56.283	8	+55.075	9	+52.746
10	+65.788	11	+66.044	12	+66.266

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.415	2	+46.997
3	+47.451	4	+46.565
5	+63.922	6	+65.170

AVERAGE TEMPERATURE	=	+65.4532	DEG. F
AVERAGE PRESSURE	=	+64.4781	PSIA
MASS	=	+97082.13	
AVG DEW POINT TEMP	=	+54.9300	DEG. F
AVG VAPOR PRESSURE	=	+0.2134	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 11:20

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63493	2	+65431

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.575	2	+91.430	3	+59.130
4	+80.144	5	+58.418	6	+59.870
7	+58.318	8	+54.983	9	+52.302
10	+65.777	11	+66.024	12	+66.267

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.432	2	+47.117
3	+47.720	4	+46.597
5	+63.952	6	+65.138

AVERAGE TEMPERATURE = +65.4036 DEG. F
AVERAGE PRESSURE = +64.4761 PSIA
MASS = +97087.41
AVG DEW POINT TEMP = +55.0023 DEG. F
AVG VAPOR PRESSURE = +0.2139 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 11:35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63492	2	+65430

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.578	2	+91.410	3	+59.149
4	+60.110	5	+58.459	6	+59.864
7	+56.260	8	+54.921	9	+52.265
10	+65.794	11	+66.033	12	+66.252

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.455	2	+47.168
3	+47.778	4	+46.394
5	+63.909	6	+65.185

AVERAGE TEMPERATURE = +65.3993 DEG. F
AVERAGE PRESSURE = +64.4751 PSIA
MASS = +97088.63
AVG DEW POINT TEMP = +55.0094 DEG. F
AVG VAPOR PRESSURE = +0.2140 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 11:50

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63490	2	+65429

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.524	2	+91.481	3	+59.135
4	+60.098	5	+58.348	6	+59.883
7	+56.294	8	+54.945	9	+52.310
10	+65.765	11	+66.014	12	+66.227

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.444	2	+47.177
3	+47.752	4	+46.582
5	+63.867	6	+65.115

AVERAGE TEMPERATURE	=	+65.3837	DEG. F
AVERAGE PRESSURE	=	+64.4736	PSIA
MASS	=	+97087.27	
AVG DEW POINT TEMP	=	+55.0070	DEG. F
AVG VAPOR PRESSURE	=	+0.2140	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 12:05

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63489	2	+65428

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.501	2	+91.336	3	+59.140
4	+60.089	5	+58.439	6	+59.820
7	+56.160	8	+54.986	9	+52.333
10	+65.760	11	+66.009	12	+66.218

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.374	2	+47.224
3	+47.834	4	+46.475
5	+63.879	6	+65.115

AVERAGE TEMPERATURE	=	+65.3685	DEG. F
AVERAGE PRESSURE	=	+64.4726	PSIA
MASS	=	+97088.45	
AVG DEW POINT TEMP	=	+55.0149	DEG. F
AVG VAPOR PRESSURE	=	+0.2140	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 12:20

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63493	2	+65434

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.491	2	+91.455	3	+59.269
4	+60.145	5	+58.403	6	+59.939
7	+56.335	8	+55.181	9	+52.502
10	+65.762	11	+66.012	12	+66.238

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.389	2	+47.329
3	+47.757	4	+46.600
5	+63.966	6	+65.123

AVERAGE TEMPERATURE = +65.4242 DEG. F
AVERAGE PRESSURE = +64.4776 PSIA
MASS = +97085.40
AVG DEW POINT TEMP = +55.0402 DEG. F
AVG VAPOR PRESSURE = +0.2142 PSIA

PEACH BOTTOM 3
 INTEGRATED LEAK RATE TEST
 DATA POINT SUMMARY SHEET

TEST MODE : TEST
 DATE : 357
 TIME : 12:35

 Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63498	2	+65437

 RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.587	2	+91.534	3	+59.256
4	+80.160	5	+58.453	6	+59.970
7	+56.391	8	+55.215	9	+52.584
10	+85.766	11	+66.014	12	+66.227

 Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.386	2	+47.512
3	+47.996	4	+47.009
5	+63.882	6	+65.075

 AVERAGE TEMPERATURE = +65.4470 DEG. F
 AVERAGE PRESSURE = +64.4816 PSIA
 MASS = +97085.69
 AVG DEW POINT TEMP = +55.1742 DEG. F
 AVG VAPOR PRESSURE = +0.2153 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 12:50

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63491	2	+65430

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.559	2	+91.481	3	+59.300
4	+80.115	5	+58.300	6	+59.907
7	+56.289	8	+55.072	9	+52.391
10	+65.747	11	+65.998	12	+66.224

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.429	2	+47.345
3	+48.088	4	+46.710
5	+63.934	6	+65.113

AVERAGE TEMPERATURE	=	+65.3977	DEG. F
AVERAGE PRESSURE	=	+64.4746	PSIA
MASS	=	+97084.70	
AVG DEW POINT TEMP	=	+55.1319	DEG. F
AVG VAPOR PRESSURE	=	+0.2149	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 13:05

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+3490	2	+5429

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.533	2	+91.450	3	+59.213
4	+60.093	5	+58.380	6	+59.921
7	+56.295	8	+55.038	9	+52.468
10	+65.748	11	+66.006	12	+66.236

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.513	2	+47.354
3	+47.912	4	+46.858
5	+63.937	6	+65.165

AVERAGE TEMPERATURE = +65.4017 DEG. F
AVERAGE PRESSURE = +2.6775 PSIA
MASS = +3720.30
AVG DEW POINT TEMP = +55.1419 DEG. F
AVG VAPOR PRESSURE = +0.2150 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : TEST
DATE : 357
TIME : 13:05

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63490	2	+65429

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.533	2	+91.450	3	+59.213
4	+60.093	5	+58.386	6	+59.921
7	+56.295	8	+55.038	9	+52.468
10	+65.748	11	+66.006	12	+66.236

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.513	2	+47.354
3	+47.912	4	+46.858
5	+63.937	6	+65.165

AVERAGE TEMPERATURE = +65.4017 DEG. F
AVERAGE PRESSURE = +64.4736 PSIA
MASS = +97082.34
AVG DEW POINT TEMP = +55.1419 DEG. F
AVG VAPOR PRESSURE = +0.2150 PSIA

PEACH BOTTOM 3
 INTEGRATED LEAK RATE TEST
 DATA POINT SUMMARY SHEET

TEST POINT 7-17
 DATE 7-19
 TIME 13:00

 Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63491	2	+65430

 RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.553	2	+91.403	3	+59.198
4	+80.110	5	+58.419	6	+59.912
7	+56.469	8	+55.018	9	+52.505
10	+65.751	11	+66.012	12	+66.244

 Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.530	2	+47.415
3	+48.022	4	+48.730
5	+63.954	6	+65.144

AVERAGE TEMPERATURE	=	+65.4145	DEG. F
AVERAGE PRESSURE	=	+64.4746	PSIA
MASS	=	+97081.44	
AVG DEW POINT TEMP	=	+55.1457	DEG. F
AVG VAPOR PRESSURE	=	+0.2151	PSIA

APPENDIX C
VERIFICATION TEST DATA AND PLOTS

VERIFICATION MODE
OPTIONS:

TIME= 1725
TEST SUMMARY

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

OF DATA POINTS = 17
MODE DURATION (IN HOURS) = 8.000001
TOT TIME MEASURED (EAK) = 0.5230
TOT TIME CALCULATED (EAK) = 0.5201
MASS PT LEAK = 0.3350
IMPOSED LEAK = 0.5015
TOT TIME UPPER LIMIT = 0.7231
TOT TIME LOWER LIMIT = 0.4731
MASS PT UPPER LIMIT = 0.7152
MASS PT LOWER LIMIT = 0.4852

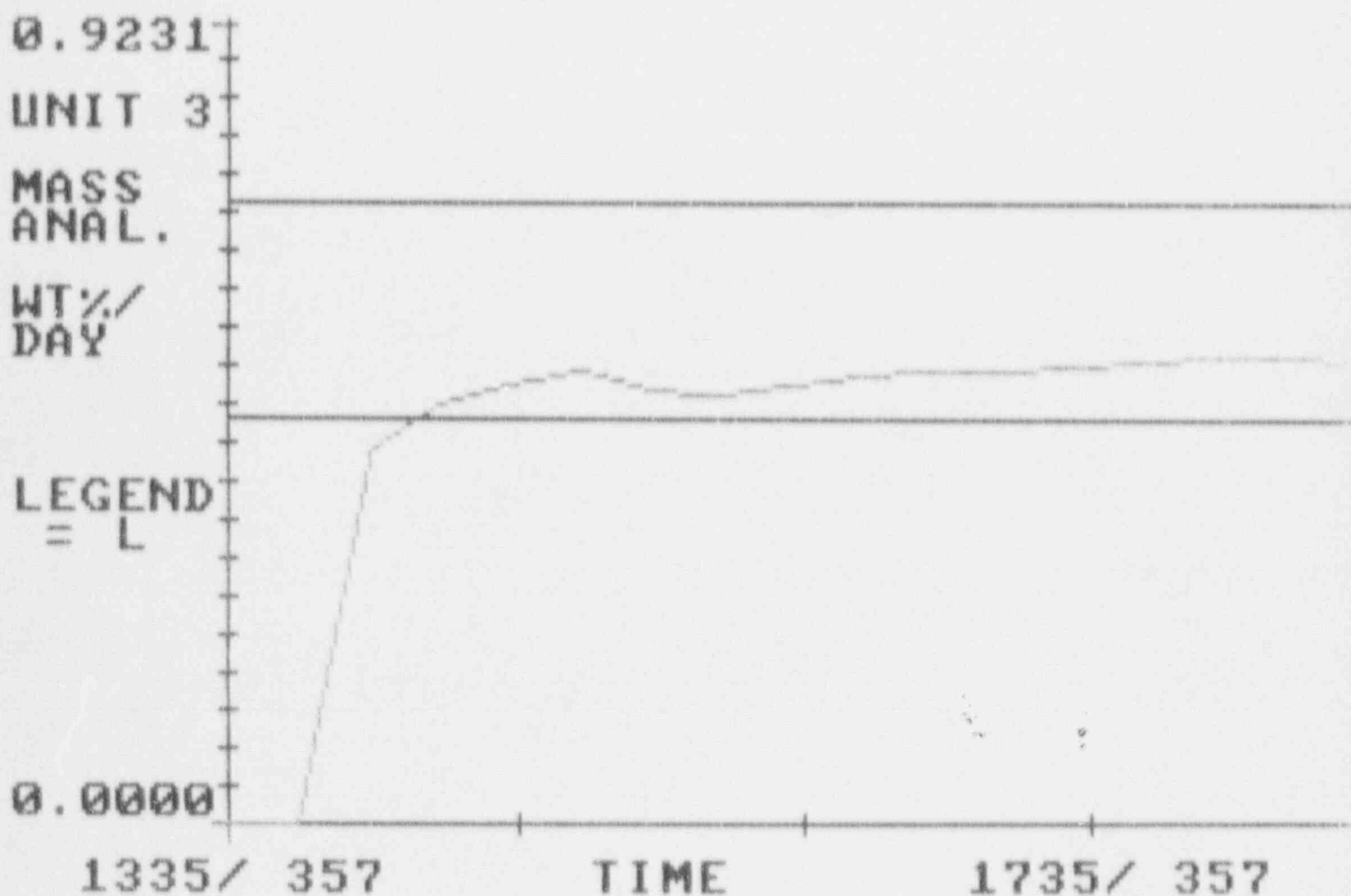
SELECTED OPTION =

TOT TIME VERIFICATION CRITERIA HAS BEEN MET

MASS PT VERIFICATION CRITERIA HAS BEEN MET

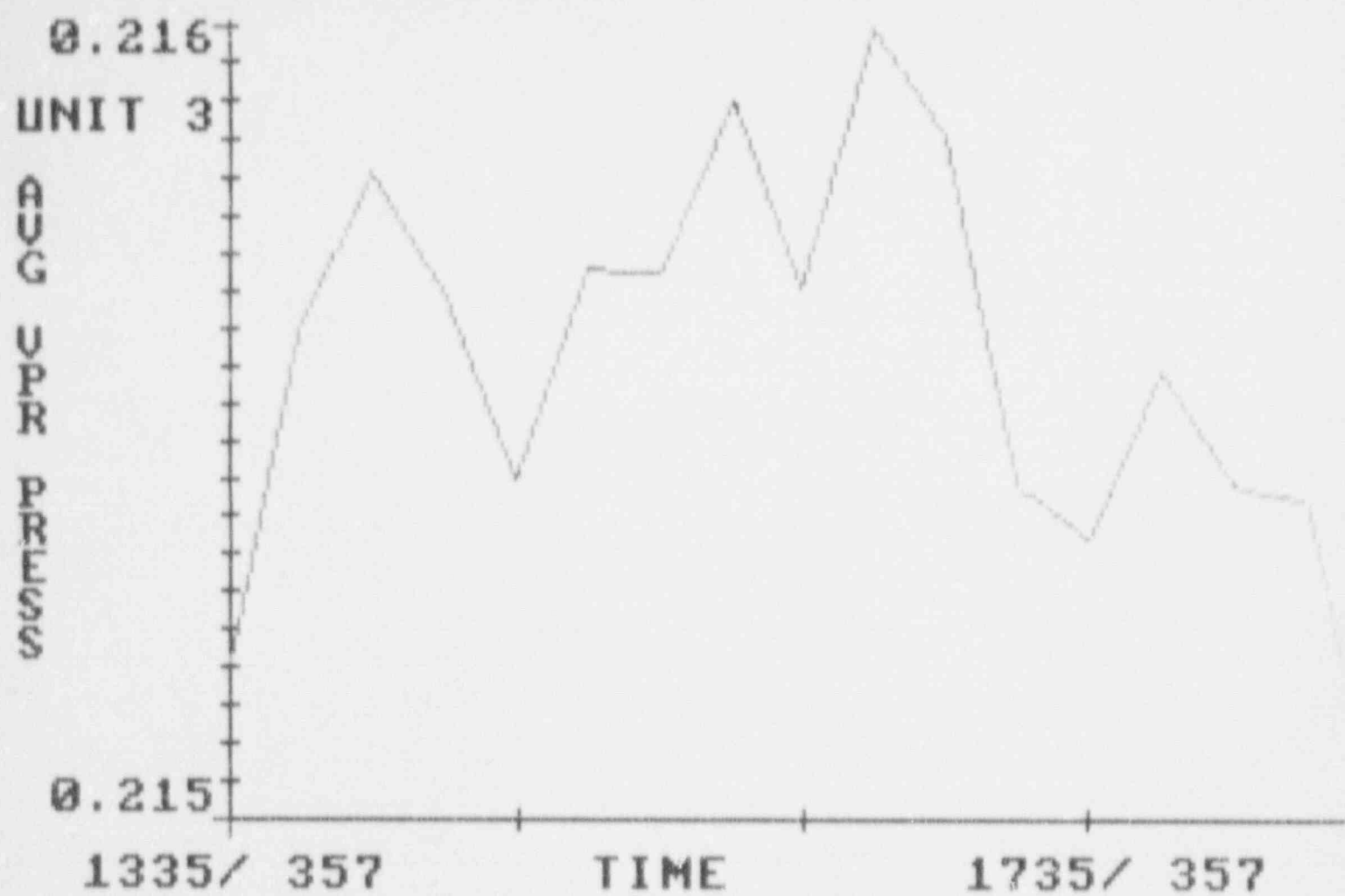
POINT SUMMARY: CURRENT VALUE/DIFFERENCE FROM PREVIOUS POINT

AVG TEMP:	63.359 / -0.009	AVG PRESS:	64.195 / -0.004
MASS:	96994.43 / -3.961	AVG DEW PRESS:	0.2153 / -0.0004
		TOTAL PRESS:	64.410 / -0.004



AVG. DATA VALUES UNIT # 3

DATE	TIME	T(1)	P(1)	DT(1)	VP(1)	MASS(1)
357	0.00	65.424	64.257	55.203	0.215	97079.05
357	0.25	65.434	64.255	55.250	0.215	97071.35
357	0.50	65.409	64.252	55.272	0.216	97070.30
357	0.75	65.421	64.248	55.256	0.216	97063.00
357	1.00	65.424	64.245	55.279	0.216	97057.48
357	1.25	65.425	64.241	55.259	0.216	97051.63
357	1.50	65.410	64.238	55.258	0.216	97049.07
357	1.75	65.413	64.234	55.282	0.216	97042.97
357	2.00	65.415	64.230	55.257	0.216	97036.94
357	2.25	65.418	64.226	55.293	0.216	97029.94
357	2.50	65.407	64.221	55.277	0.216	97024.59
357	2.75	65.399	64.217	55.228	0.216	97020.55
357	3.00	65.401	64.213	55.220	0.216	97013.78
357	3.25	65.391	64.208	55.244	0.216	97008.16
357	3.50	65.394	64.203	55.228	0.216	97000.29
357	3.75	65.367	64.199	55.225	0.216	96998.39
357	4.00	65.359	64.195	55.180	0.215	96994.43



55.293

UNIT 3

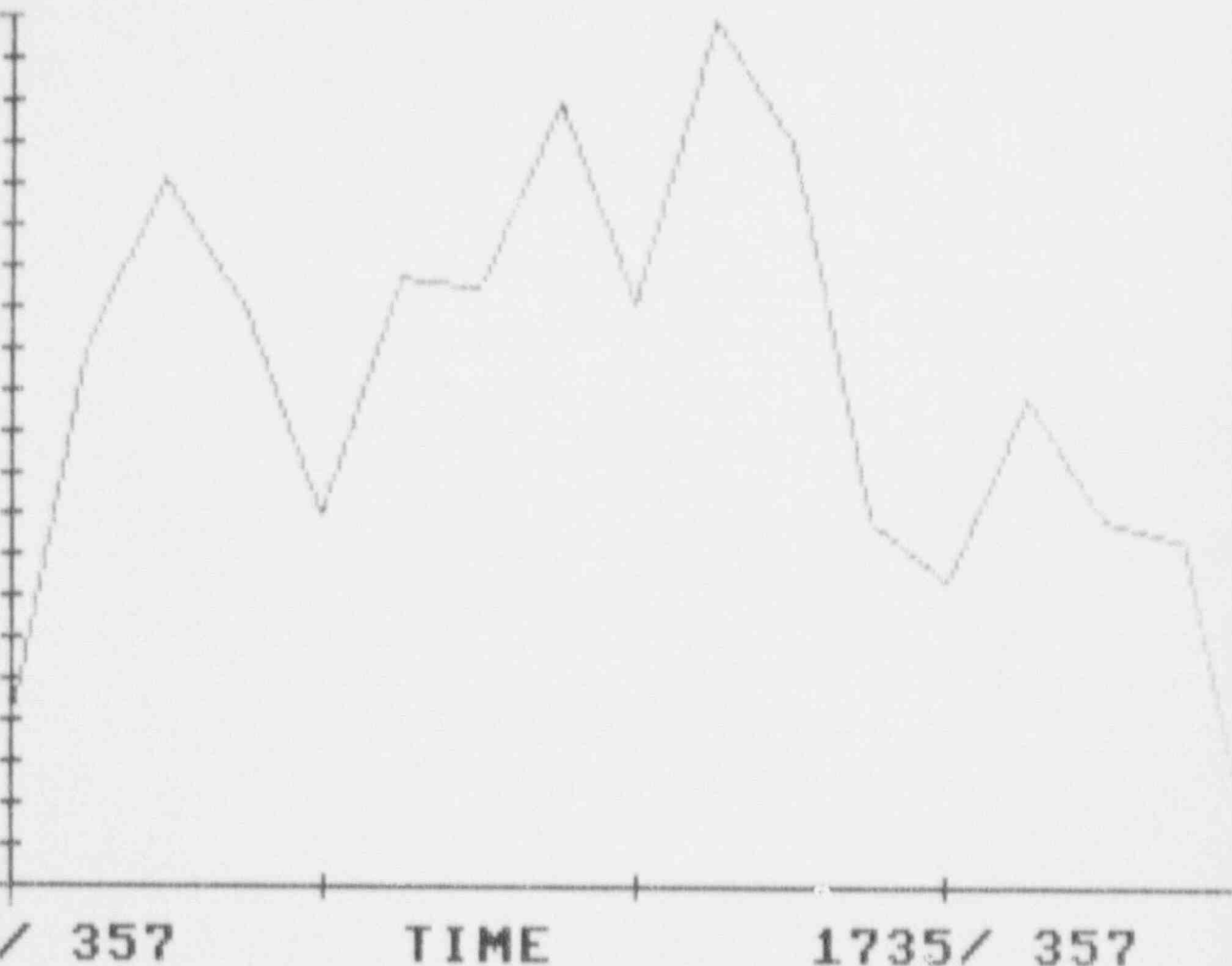
AUG
DEW
TEMP
F

55.180

1335/ 357

TIME

1735/ 357



65.434

UNIT 3

TEMPERATURE

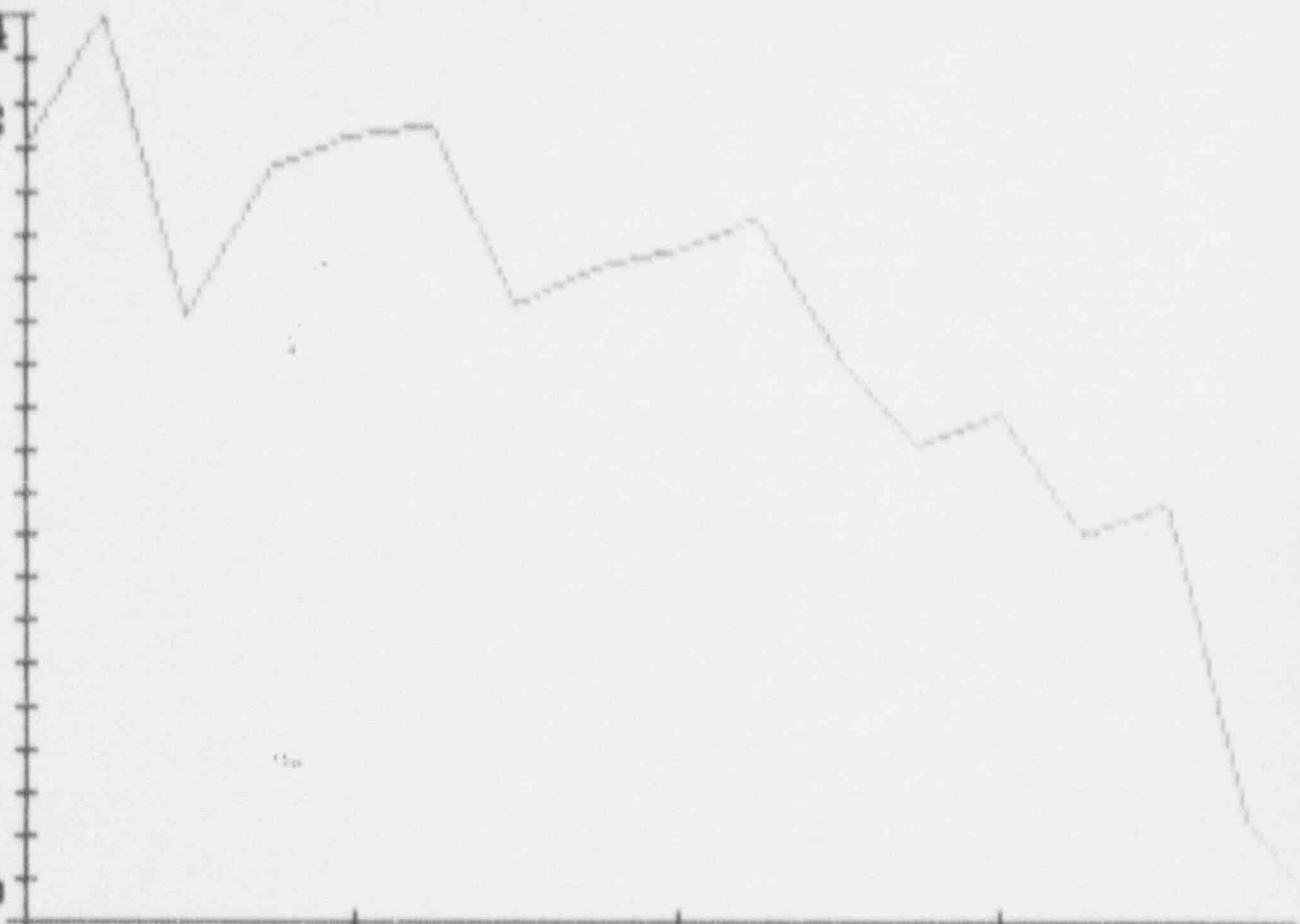
F

65.359

1335/ 357

TIME

1735/ 357



64.475

UNIT 3

P
R
E
S
S
U
R
E

PSIA

64.410

1335/ 357

TIME

1735/ 357



0.9708

UNIT 3

MASS

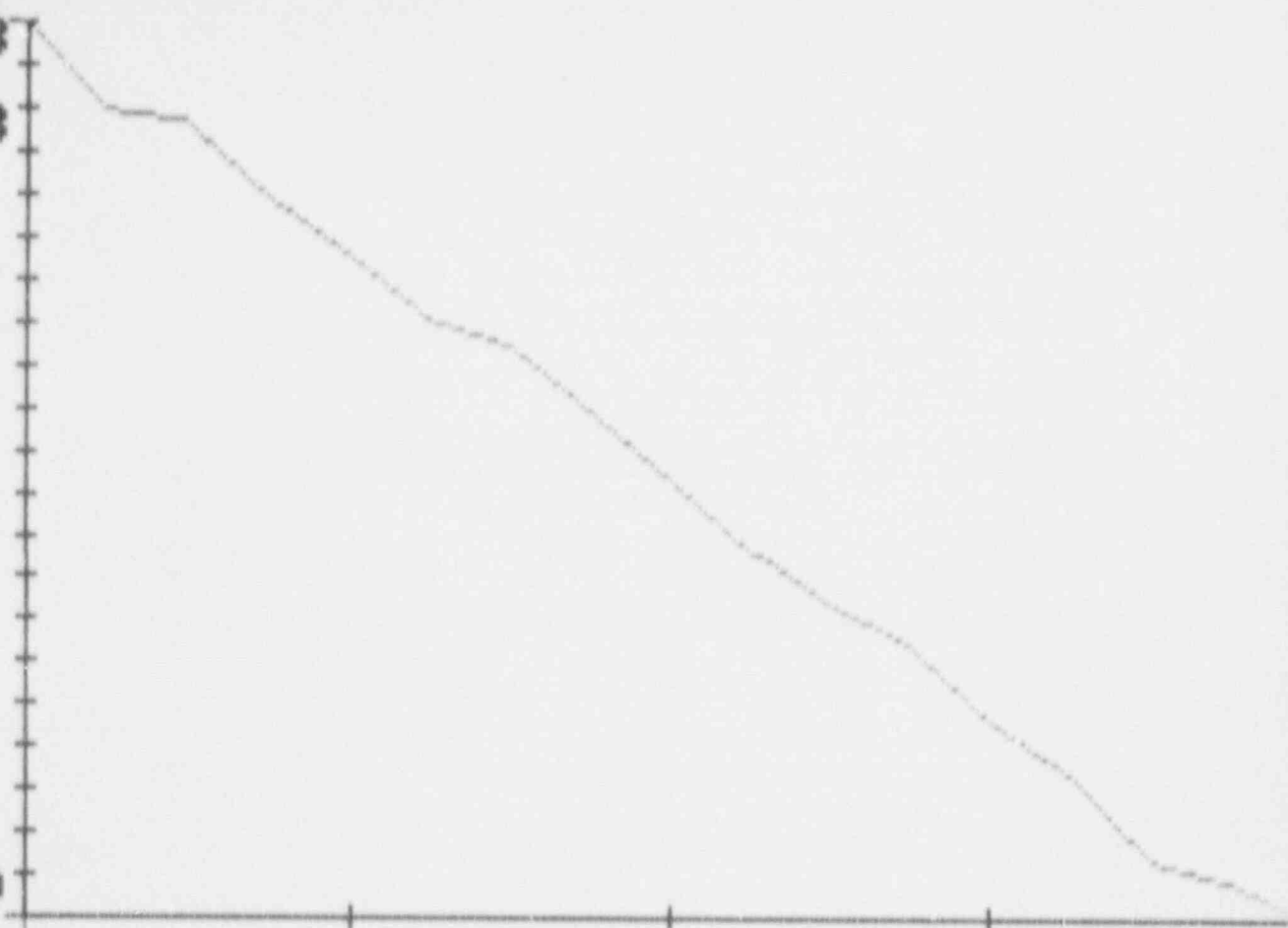
LBM
 $\times 10^5$

0.9699

1335/ 357

TIME

1735/ 357



PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 13:35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63491	2	+65430

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.504	2	+91.368	3	+59.207
4	+60.107	5	+58.502	6	+59.931
7	+56.359	8	+55.232	9	+52.543
10	+65.736	11	+66.006	12	+66.244

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.476	2	+47.462
3	+48.130	4	+46.878
5	+63.946	6	+65.142

AVERAGE TEMPERATURE = +65.4237 DEG. F
AVERAGE PRESSURE = +64.4746 PSIA
MASS = +97079.05
AVG DEW POINT TEMP = +55.2025 DEG. F
AVG VAPOR PRESSURE = +0.2155 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 13:50

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63488	2	+65426

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.527	2	+91.500	3	+59.234
4	+80.127	5	+58.433	6	+59.945
7	+56.430	8	+55.304	9	+52.528
10	+65.745	11	+65.995	12	+66.221

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.487	2	+47.628
3	+48.123	4	+47.070
5	+63.961	6	+65.115

AVERAGE TEMPERATURE = +65.4338 DEG. F
AVERAGE PRESSURE = +64.4711 PSIA
MASS = +97071.35
AVG DEW POINT TEMP = +55.9501 DEG. F
AVG VAPOR PRESSURE = +0.2159 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 14:05

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63484	2	+65423

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.433	2	+91.471	3	+59.156
4	+60.147	5	+58.477	6	+59.930
7	+56.388	8	+55.058	9	+52.533
10	+65.727	11	+65.994	12	+66.232

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.447	2	+47.663
3	+48.213	4	+47.009
5	+63.942	6	+65.130

AVERAGE TEMPERATURE	=	+65.4094	DEG. F
AVERAGE PRESSURE	=	+64.4676	PSIA
MASS	=	+97070.30	
AVG DEW POINT TEMP	=	+55.2723	DEG. F
AVG VAPOR PRESSURE	=	+0.2160	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 14:20

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63481	2	+65419

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+82.507	2	+91.394	3	+59.237
4	+60.157	5	+58.403	6	+59.953
7	+56.387	8	+55.247	9	+52.485
10	+65.747	11	+65.989	12	+66.232

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.414	2	+47.599
3	+48.111	4	+47.058
5	+63.893	6	+65.150

AVERAGE TEMPERATURE	=	+65.4213	DEG. F
AVERAGE PRESSURE	=	+64.4641	PSIA
MASS	=	+97063.00	
AVG DEW POINT TEMP	=	+55.2557	DEG. F
AVG VAPOR PRESSURE	=	+0.2159	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VPRF
DATE : 357
TIME : 14:05

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63477	2	+65416

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.507	2	+91.394	3	+59.240
4	+60.107	5	+58.461	6	+59.959
7	+56.361	8	+55.258	9	+52.556
10	+65.747	11	+65.991	12	+66.224

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.391	2	+47.541
3	+48.182	4	+47.061
5	+63.961	6	+65.083

AVERAGE TEMPERATURE	=	+65.4241	DEG. F
AVERAGE PRESSURE	=	+64.4606	PSIA
MASS	=	+97057.48	
AVG DEW POINT TEMP	=	+55.2288	DEG. F
AVG VAPOR PRESSURE	=	+0.2157	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 14:50

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63474	2	+65412

NTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.462	2	+91.374	3	+59.285
4	+60.063	5	+58.485	6	+59.976
7	+56.306	8	+55.363	9	+52.569
10	+65.727	11	+65.989	12	+66.226

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.392	2	+47.580
3	+48.162	4	+47.062
5	+63.978	6	+65.138

AVERAGE TEMPERATURE = +65.4253 DEG. F
AVERAGE PRESSURE = +64.4571 PSIA
MASS = +97051.63
AVG DEW POINT TEMP = +55.2595 DEG. F
AVG VAPOR PRESSURE = +0.2159 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 15:05

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63470	2	+65409

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.437	2	+91.308	3	+59.233
4	+60.080	5	+58.457	6	+59.364
7	+56.286	8	+55.195	9	+52.630
10	+65.751	11	+65.994	12	+66.229

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.461	2	+47.583
3	+48.228	4	+47.097
5	+63.987	6	+65.086

AVERAGE TEMPERATURE = +65.4104 DEG. F
AVERAGE PRESSURE = +64.4536 PSIA
MASS = +97049.07
AVG DEW POINT TEMP = +55.2582 DEG. F
AVG VAPOR PRESSURE = +0.2159 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 15:20

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63467	2	+65405

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.442	2	+91.403	3	+59.307
4	+80.009	5	+58.409	6	+59.944
7	+56.404	8	+55.255	9	+52.537
10	+65.728	11	+65.994	12	+66.229

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.379	2	+47.547
3	+48.234	4	+47.073
5	+63.911	6	+65.162

AVERAGE TEMPERATURE = +65.4133 DEG. F
AVERAGE PRESSURE = +64.4501 PSIA
MASS = +97042.97
AVG DEW POINT TEMP = +55.2824 DEG. F
AVG VAPOR PRESSURE = +0.2161 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 15:35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63463	2	+65401

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.457	2	+91.381	3	+59.219
4	+60.080	5	+58.441	6	+59.931
7	+56.286	8	+55.329	9	+52.555
10	+65.751	11	+65.992	12	+66.229

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.392	2	+47.529
3	+48.243	4	+46.995
5	+63.999	6	+65.136

AVERAGE TEMPERATURE = +65.4148 DEG. F
AVERAGE PRESSURE = +64.4461 PSIA
MASS = +97036.94
AVG DEW POINT TEMP = +55.2567 DEG. F
AVG VAPOR PRESSURE = +0.2159 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 15:50

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63459	2	+65397

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.501	2	+91.398	3	+59.304
4	+60.002	5	+58.422	6	+59.942
7	+56.304	8	+55.215	9	+52.578
10	+65.759	11	+66.017	12	+66.226

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.388	2	+47.631
3	+48.298	4	+46.954
5	+63.949	6	+65.168

AVERAGE TEMPERATURE	=	+65.4176	DEG. F
AVERAGE PRESSURE	=	+64.4421	PSIA
MASS	=	+97029.94	
AVG DEW POINT TEMP	=	+55.2931	DEG. F
AVG VAPOR PRESSURE	=	+0.2162	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 16:05

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63454	2	+65392

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.445	2	+51.304	3	+59.219
4	+80.064	5	+58.491	6	+59.924
7	+56.224	8	+55.128	9	+52.511
10	+65.785	11	+66.017	12	+66.233

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.408	2	+47.454
3	+48.277	4	+47.081
5	+63.960	6	+65.161

AVERAGE TEMPERATURE	=	+65.4065	DEG. F
AVERAGE PRESSURE	=	+64.4370	PSIA
MASS	=	+97024.59	
AVG DEW POINT TEMP	=	+55.2774	DEG. F
AVG VAPOR PRESSURE	=	+0.2161	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 16:20

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63450	2	+65388

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.404	2	+91.334	3	+59.149
4	+60.043	5	+58.404	6	+59.938
7	+56.404	8	+55.104	9	+52.490
10	+65.757	11	+66.015	12	+66.249

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.394	2	+47.564
3	+48.072	4	+47.055
5	+63.938	6	+65.121

AVERAGE TEMPERATURE = +65.3988 DEG. F
AVERAGE PRESSURE = +64.4330 PSIA
MASS = +97020.55
AVG DEW POINT TEMP = +55.2279 DEG. F
AVG VAPOR PRESSURE = +0.2157 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 16:35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63445	2	+65384

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.492	2	+91.314	3	+59.159
4	+59.997	5	+58.412	6	+59.895
7	+56.416	8	+55.188	9	+52.528
10	+65.748	11	+66.017	12	+66.243

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.377	2	+47.392
3	+48.140	4	+47.052
5	+64.007	6	+65.135

AVERAGE TEMPERATURE	=	+65.4013	DEG. F
AVERAGE PRESSURE	=	+64.4285	PSIA
MASS	=	+97013.38	
AVG DEW POINT TEMP	=	+55.2199	DEG. F
AVG VAPOR PRESSURE	=	+0.2156	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 16:50

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63441	2	+65379

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.344	2	+91.351	3	+59.222
4	+60.000	5	+58.390	6	+59.852
7	+58.250	8	+55.302	9	+52.432
10	+65.765	11	+66.018	12	+66.247

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.377	2	+47.535
3	+48.201	4	+46.963
5	+63.983	6	+65.139

AVERAGE TEMPERATURE = +65.3911 DEG. F
AVERAGE PRESSURE = +64.4240 PSIA
MASS = +97008.16
AVG DEW POINT TEMP = +55.2441 DEG. F
AVG VA. OR PRESSURE = +0.2158 PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 17:05

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63435	2	+65375

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.387	2	+91.304	3	+59.170
4	+59.968	5	+58.522	6	+59.846
7	+56.163	8	+55.278	9	+52.471
10	+65.768	11	+66.023	12	+66.247

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.370	2	+47.531
3	+48.147	4	+46.945
5	+64.039	6	+65.139

AVERAGE TEMPERATURE	=	+65.3936	DEG. F
AVERAGE PRESSURE	=	+64.4190	PSIA
MASS	=	+97000.29	
AVG DEW POINT TEMP	=	+55.2282	DEG. F
AVG VAPOR PRESSURE	=	+0.2157	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 17:20

Pressure Instruments in counts

channel	pressure	channel	pressure
-----	-----	-----	-----
1	+63431	2	+65370

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
-----	-----	-----	-----	-----	-----
1	+92.334	2	+91.325	3	+59.150
4	+59.960	5	+58.392	6	+59.863
7	+56.193	8	+55.107	9	+52.385
10	+65.751	11	+66.015	12	+66.259

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
-----	-----	-----	-----
1	+82.363	2	+47.619
3	+48.146	4	+46.890
5	+64.012	6	+65.121

AVERAGE TEMPERATURE	=	+65.3673	DEG. F
AVERAGE PRESSURE	=	+64.4145	PSIA
MASS	=	+96998.39	
AVG DEW POINT TEMP	=	+55.2255	DEG. F
AVG VAPOR PRESSURE	=	+0.2157	PSIA

PEACH BOTTOM 3
INTEGRATED LEAK RATE TEST
DATA POINT SUMMARY SHEET

TEST MODE : VERF
DATE : 357
TIME : 17.35

Pressure Instruments in counts

channel	pressure	channel	pressure
1	+63427	2	+65366

RTDs in degrees F

channel	temp.	channel	temp.	channel	temp.
1	+92.308	2	+91.163	3	+59.230
4	+59.976	5	+58.345	6	+59.826
7	+56.271	8	+55.110	9	+52.378
10	+65.757	11	+66.020	12	+66.243

Dew Cell temperatures in degrees F

channel	cell temp	channel	cell temp
1	+82.350	2	+47.439
3	+48.031	4	+46.902
5	+63.966	6	+65.141

AVERAGE TEMPERATURE = +65.3588 DEG. F
AVERAGE PRESSURE = +64.4105 PSIA
MASS = +96994.43
AVG DEW POINT TEMP = +55.1801 DEG. F
AVG VAPOR PRESSURE = +0.2153 PSIA

APPENDIX D

INSTRUMENT SELECTION GUIDE CALCULATION

INSTRUMENT SELECTION GUIDE CALCULATION

Page 1 of 2

A. TEST PARAMETERS

$$L_a = 0.5\%/day$$

$$P = 64.5 \text{ psia}$$

$$T = 526^\circ \text{ R}$$

$$T_{dp} = 55.5^\circ \text{ F}$$

$$t = 24 \text{ hours}$$

B. INSTRUMENT PARAMETERS

1. Total Absolute Pressure

$$\text{No. of Sensors} = 2$$

$$\text{Range: } 0 - 100 \text{ psia}$$

$$\text{Sensor sensitivity error (I)} \quad 0.001 \text{ psia}$$

$$\text{Measurement system error (e):}$$

$$\text{Resolution: } 0.001 \text{ psia}$$

$$\text{Repeatability: } \pm 0.001 \text{ psia}$$

$$e = \pm \left((0.001)^2 + (0.001)^2 \right)^{1/2}$$

$$e = \pm 0.001414 \text{ psia}$$

$$e_p = \pm \left((0.001)^2 + (0.001414)^2 \right)^{1/2} / (2)^{1/2}$$

$$e_p = \pm 0.00122 \text{ psia}$$

2. Water Vapor Pressure

$$\text{No. of Sensors} = 4$$

$$\text{Sensor sensitivity error (E): } 0.1^\circ \text{ F}$$

$$\text{Measurement system error (e):}$$

$$\text{Resolution: } 0.01^\circ \text{ F}$$

$$\text{Repeatability: } \pm 0.01^\circ \text{ F}$$

$$e = \pm \left((0.01)^2 + (0.01)^2 \right)^{1/2}$$

$$e = \pm 0.01414^\circ \text{ F}$$

At a dewpoint of 55.5° F, the equivalent water vapor pressure change (as determined from steam tables) is 0.0079 psia/° F.

$$E = \pm 0.1^\circ \text{ F } (0.0079 \text{ psia}/^\circ \text{ F})$$

$$E = \pm 0.00079 \text{ psia}$$

$$e = \pm 0.01414^\circ \text{ F } (0.0079 \text{ psia}/^\circ \text{ F})$$

$$e = \pm 0.00011 \text{ psia}$$

$$e_{pv} = \pm ((0.00079)^2 + (0.00011)^2)^{1/2} / (4)^{1/2}$$

$$e_{pv} = \pm 0.00040 \text{ psia}$$

3. Temperature

$$\text{No. of Sensors} = 12$$

$$\text{Sensor sensitivity error (E):} \quad 0.01^\circ \text{ F}$$

$$\text{Measurement system error (e):}$$

$$\text{Resolution:} \quad 0.01^\circ \text{ F}$$

$$\text{Repeatability:} \quad \pm 0.01^\circ \text{ F}$$

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

$$e = \pm 0.01414^\circ \text{ F} = \pm 0.01414^\circ \text{ R}$$

$$e_T = \pm ((0.01)^2 + (0.01414)^2)^{1/2} / (12)^{1/2}$$

$$e_T = \pm 0.00500^\circ \text{ R}$$

4. Instrumentation Selection Guide Formula

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

$$\text{ISG} = \pm (2400/24) (2(0.00122/64.5)^2 + 2(0.00040/64.5)^2 + 2(0.00500/526)^2)^{1/2}$$

$$\text{ISG} = \pm 0.0031 \%/\text{day}$$

APPENDIX E

GENERAL PHYSICS ILRT COMPUTER PROGRAM DESCRIPTION

DESCRIPTION OF GENERAL PHYSICS ILRT COMPUTER PROGRAM

The following paragraphs describe the various features and attributes of the General Physics ILRT Computer Program and the process used to certify it for each application.

REDUNDANCY

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

Two computers were brought on site for 100% redundancy, as each computer and its software is capable of independently performing the ILRT. The General Physics ILRT Computer Software is also capable of accepting manual input of raw sensor data and performing all required sensor data conversions if the data logger should cease to function. Each computer was equipped with back-up discs in the unlikely event of a disc "crash."

SECURITY

The General Physics ILRT Computer Program is written in Microsoft's QuickBasic. QuickBasic is a high level programming language which combines programming ease with user oriented command functions to create an easy to use and understood program. In order to increase speed of operation the program was then compiled into an executable command file. Compiling was accomplished using the Microsoft's QuickBasic Compiler. In addition to execution speed, this had the added benefit of making the program more secure as compiled programs cannot be edited or changed. The program requires a password to change modes of operation, start times, or enter the data editing routine to safeguard the integrity of the raw data files.

FEATURES

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

- | | |
|------------------------|--------------------------|
| 1. Pressurization Mode | 4. Verification Mode |
| 2. Stabilization Mode | 5. Depressurization Mode |
| 3. Test Mode | |

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

1. Pressurization Mode: All data reduction, graphic displays of average temperature, dewpoint, and corrected pressure.
2. Stabilization Mode: All data reduction, automatic comparison of data against ANSI 56.8 and BN-TOP-1 temperature stabilization criteria, notification when criteria is met, graphic displays of average temperature, dewpoint, and corrected pressure.
3. Test Mode: All data reduction, calculation of leakage rates using mass point, total time and point-to-point analysis techniques, display of trend report information required by BN-TOP-1, graphic display of average temperature, dewpoint, pressure and mass, as well as graphic display of mass point measured leakage, 95% UCL; total time measured and calculated leakage and the total time leakage rate at the 95% UCL (as calculated by BN-TOP-1), including a superimposed acceptance criteria line).

4. Verification Test Mode: With input of imposed leakage in SCFM automatically calculates and displays on graph and trend report the acceptance criteria band, plus all graphics displays available in test mode.
5. Depressurization Mode: All data and graphics capabilities of Pressurization Mode. In programs for BWR units, this mode also includes a Drywell to Suppression Chamber Bypass Test routine.

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

1. Containment total pressure conversion from counts to psia (if required), and averaging.
2. Containment drybulb temperature weighted averaging and conversion to absolute units.
3. Containment dewpoint temperature weighted averaging (conversion from Foxboro dewcell element temperature to dewpoint temperature if required) and conversion to partial pressure of water vapor (psia).
4. Data storage of ILRT measurement system inputs for each data point.
5. Weight (mass) point calculations using the ideal gas law.
6. Automated Data Acquisition and/or Manual Data Entry.
7. Sensor performance and deviation information for sensor failure criteria, graphic display of individual sensor performance for selected operating mode.

8. Calculation of ISG formula at beginning of test; acceptance criteria based on number of sensors remaining and actual test duration.
9. Computer System Error Functions automatically checks for error in incoming data, printer or disk drive faults.

The computer program used by General Physics has been previously certified for six tests at the San Onofre Nuclear Generating Station and over a dozen other ILRTs. The initial certification required verification of the program through hand calculations and an independent review by Bechtel Power Corporation. After certification was completed, a calibration set of raw data was used to verify software of the program prior to usage. Additionally, once the computer was linked to the data acquisition system and a complete data stream was available, the input function of each mode of the program was verified by comparing the data acquisition system output to the computer printout data point summary.

APPENDIX F

LOCAL LEAKAGE RATE TEST SUMMARIES

U/3 Leakage Savings Data

Type C Tests

<u>Pen No.</u>	<u>Notes</u>		
7A	AO-1A-080A AO-1A-086A	As Found	3552
		As Left	<u>65</u>
		Savings	3487
7B	AO-1A-080B AO-1A-086B	As Found	2163
		As Left	<u>167</u>
		Savings	1996
7C	AO-1A-080C AO-1A-086C	As Found	1143
		As Left	<u>1143</u>
		Savings	0
7D	AO-1A-080D AO-1A-086D	As Found	1625
		As Left	<u>175</u>
		Savings	1450
8	MO-1A-74 MO-1A-77	As Found	135
		As Left	<u>135</u>
		Savings	0
9A	MO-6-038A CHK 6-028A & 6-096A MO-23-19	As Found	688
		As Left	<u>688</u>
		Savings	0
9B	MO-6-038B CHK 6-028B & 6-096B MO-13-21, MO-12-68	As Found	4485
		As Left	<u>4485</u>
		Savings	0
10	MO-13-15 MO-13-16	As Found	1402
		As Left	<u>25</u>
		Savings	1377
11	MO-23-15 MO-23-16	As Found	384
		As Left	<u>10</u>
		Savings	374
12	MO-10-17 MO-10-18	As Found	449
		As Left	<u>449</u>
		Savings	0
13A	MO-10-25B AO-10-46B AO-10-163B	As Found	1170
		As Left	<u>1170</u>
		Savings	0
13B	MO-10-25A AO-10-46A AO-10-163A	As Found	445
		As Left	<u>445</u>
		Savings	0

Pen No.	Notes	
14	MO-12-15	As Found 255
	MO-12-18	As Left 95
		Savings 0
16A	MO-14-12B	As Found 164
	AO-14-13B	As Left 200
	AO-14-15B	Savings 0
16B	MO-14-12A	As Found 67
	AO-14-13A	As Left 255
	AO-14-15A	Savings 0
17	MO-10-32	As Found 5
	MO-10-33	As Left 5
		Savings 0
18	AO-20-82	As Found 168
	AO-20-83	As Left 168
		Savings 0
19	AO-20-94	As Found 142
	AO-20-95	As Left 142
		Savings 0
21	Serv. air inboard Globe vlv	As Found 68
	Serv. air outboard Globe vlv	As Left 68
		Savings 0
22	AO-3969A	As Found 10
	CHK-33202A	As Left 10
		Savings 0
23	MO-3373	As Found 20
		As Left 20
		Savings 0
24	MO-3374	As Found 564
		As Left 564
		Savings 0
25	AO-3505, AO-3519	As Found 2012
	AO-3520, AO-3521A	As Left 610
	AO-3521B	Savings 1402
	CHK-#1 & #2	
26	AO-3506, AO-3507, AO-3509	As Found 156
	AO-3510, SV-5235	As Left 95
	SV-9100, SV-9101, SV-3671G, SV-3978G	Savings 61
	SV-5960B, SV-5961B, SV-5966B	
32C	2 Globe Valves	As Found 10
32D		As Left 10
218C		Savings 0

<u>Pen No.</u>		<u>Notes</u>	
14	MO-12-15	As Found	255
	MO-12-18	As Left	<u>95</u>
		Savings	160
16A	MO-14-12B	As Found	164
	AO-14-13B	As Left	<u>200</u>
	AO-14-15B	Saving	0
16B	MO-14-12A	As Found	67
	AO-14-13A	As Left	<u>255</u>
	AO-14-15A	Savings	0
17	MO-10-32	As Found	5
	MO-10-33	As Left	<u>5</u>
		Savings	0
18	AO-20-82	As Found	168
	AO-20-83	As Left	<u>168</u>
		Savings	0
19	AO-20-94	As Found	142
	AO-20-95	As Left	<u>142</u>
		Savings	0
21	Serv. air inboard Globe vlys	As Found	58
	Serv. air outboard Globe vlys	As Left	<u>66</u>
		Savings	0
22	AO-3969A	As Found	10
	CHK-33202A	As Left	<u>10</u>
		Savings	0
23	MO-3373	As Found	20
		As Left	<u>20</u>
		Savings	0
24	MO-3374	As Found	564
		As Left	<u>564</u>
		Savings	0
25	AO-3505, AO-3519	As Found	2014
	AO-3520, AO-3521A	As Left	<u>610</u>
	AO-3521B	Savings	1402
	CHK-#1 & #2		
26	AO-3506, AO-3507, AO-3509	As Found	156
	AO-3510, SV-5235	As Left	<u>95</u>
	SV-9100, SV-9101, SV-3671G, SV-3978G	Savings	61
	SV-5960B, SV-5961B, SV-5966B		
32C	2 Globe Valves	As Found	10
32D		As Left	<u>10</u>
218C		Savings	0

<u>Pen No.</u>		<u>Notes</u>	
35C	SV-109 CHK Valve	As Found As Left Savings	20 <u>20</u> 0
35B,D,E F,G	A - E Ball Valves	As Found As Left Savings	100 <u>100</u> 0
39A	SV-5949B, CHK VALVE MO-10-31B, MO-10-26B	As Found As Left Savings	4339 <u>200</u> 4139
39B	SV-5949A, CHK VALVE MO-10-31A, MO-10-26A	As Found As Left Savings	3779 <u>995</u> 2784
41	AO-2-39 AO-2-49	As Found As Left Savings	5 <u>5</u> 0
42	CHK-11-16 XV-14A, XV-14B	As Found As Left Savings	20 <u>20</u> 0
47	SV-9130B CKH-33299B	As Found As Left Savings	10 <u>10</u> 0
51A	SV-3671F SV-3978B	As Found As Left Savings	10 <u>91</u> 0
51B	SV-3671D SV-3978D	As Found As Left Savings	20 <u>20</u> 0
51C	SV-3671C, SV-3978C SV-5961C, SV-5966C SV-5960C	As Found As Left Savings	270 <u>270</u> 0
51D	SV-7D-3980 Chk-7D-50140	As Found As Left Savings	20 <u>20</u> 0
52F	AO-3969B CHK-33202B CHK-33312	As Found As Left Savings	20 <u>20</u> 0
53	MO-3201B	As Found As Left Savings	10 <u>10</u> 0
54	MO-3200B	As Found As Left Savings	476 <u>476</u> 0

<u>Pen No.</u>		<u>Notes</u>	
55	MO-3200A	As Found	1001
		As Left	<u>1001</u>
		Savings	0
56	MO-3201A	As Found	2402
		As Left	<u>2402</u>
		Savings	0
57	AO-2-316	As Found	138
	AO-2-317	As Left	<u>138</u>
		Savings	0
102B	CHK-33299A, SV-9130A	As Found	27
	HV-36 HV-36	As Left	<u>27</u>
		Savings	0
203	SV-3671B, SV-3978B	As Found	67
	SV-5960D, SV-5961D	As Left	<u>67</u>
	SV-5966D	Savings	0
205A	AO-3502B	As Found	50
	AO-9-26B	As Left	<u>93</u>
		Savings	0
205B	AO-3502A	As Found	111
	AO-9-26A	As Left	<u>84</u>
		Savings	27
210A	MO-10-34B, MO-10-38B	As Found	545
211A	MO-10-34B, CHK-50145	As Left	<u>545</u>
	SV-5951A	Savings	0
210B	MO-10-34A, MO-10-38A	As Found	1852
211B	MO-10-39A, CHK-50144	As Left	<u>1652</u>
	SV-5951B	Savings	0
212	CHK-13-50, Stop CHK-13-9	As Found	316
214	AO-13-5240, AO-13-5241	As Left	<u>414</u>
217B	CHK-23C-65, CHK-23C-12	Savings	0
	AO-23-5247, AO-23-5248		
	MO-13-5244, MO-23-5245		
218A	AO-3968, CHK-53261	As Found	10
		As Left	<u>10</u>
		Savings	0
218B	SV-3671A, SV-3978A	As Found	24
		As Left	<u>24</u>
		Savings	0
219	AO-3511, AO-3512, AO-3513, AO-3514	As Found	265
	SV-5960A, SV-5961A, SV-5966A	As Left	<u>304</u>
	SV-3671F, SV-3978F	Savings	70

<u>Pen No.</u>		<u>Notes</u>	
225	MO-13-39, MO-13-41 MO-13-70, MO-13-71	As Found	112
		As Left	<u>112</u>
		Savings	0
227	MO-23-57 MO-23-58	As Found	44
		As Left	<u>44</u>
		Savings	0
SDV	CV-32A, CV-32B CV-35A, CV-35B CV-33, CV-36	As Found	175
		As Left	<u>175</u>
		Savings	0

Type B Tests

—	D/W Head Seal	As Found	5
		As Left	<u>35</u>
		Savings	0
—	RPV Stabilizer Manways	As Found	10
		As Left	<u>10</u>
		Savings	0
1	Equipment Access 'O' Rings	As Found	5
		As Left	<u>5</u>
		Savings	0
2	Personnel Airlock	As Found	589
		As Left	<u>615</u>
		Savings	0
4	Head Access	As Found	5
		As Left	<u>5</u>
		Savings	0
6	CRD Hatch	As Found	5
		As Left	<u>5</u>
		Savings	0
7A, B, C, D 9A, B	Various Expansion Penetrations	As Found	240
		As Left	<u>240</u>
		Savings	0
11, 12, 13A 14A, 16A, 17	Various Expansion Penetrations	As Found	5
		As Left	<u>5</u>
		Savings	0
13B, 16B	Various Expansion Penetrations	As Found	154
		As Left	<u>190</u>
		Savings	0
N-25	AO-3520, 3505, 3519 'O' Rings	As Found	20
		As Left	<u>20</u>
		Savings	0

<u>Pen No.</u>		<u>Notes</u>	
N-26	AO-3506, 3507 'O' Rings	As Found	10
		As Left	<u>10</u>
		Savings	0
N-35A - G	TIP 'O' Rings	As Found	26
		As Left	<u>26</u>
		Savings	0
100A, C, 104A - D 105A,B, 106A,B 107, 220	Various Electrical Penetrations	As Found	10
		As Left	<u>10</u>
		Savings	0
100D, E, 101C,D,E, 103B, 104E - H, 105C,D 106C,D	Various Electrical Penetrations	As Found	10
		As Left	<u>10</u>
		Savings	0
101A,B,F 231A,B	Various Electrical Penetrations	As Found	10
		As Left	<u>10</u>
		Savings	0
150	Test Nozzle	As Found	20
		As Left	<u>20</u>
		Savings	0
200A	Torus Hatch	As Found	5
		As Left	<u>5</u>
		Savings	0
200B	Torus Hatch	As Found	5
		As Left	<u>5</u>
		Savings	0
201A,B	D/W to Torus Expansion Joint	As Found	63
		As Left	<u>10</u>
		Savings	53
201C,D	D/W to Torus Expansion Joint	As Found	5
		As Left	<u>5</u>
		Savings	0
201E,F	D/W to Torus Expansion Joint	As Found	116
		As Left	<u>120</u>
		Savings	0
201G,H	D/W to Torus Expansion Joint	As Found	10
		As Left	<u>10</u>
		Savings	0
205A	AO-3502B 'O' Ring	As Found	10
		As Left	<u>10</u>
		Savings	0

<u>Pen No.</u>		<u>Notes</u>	
205B	AO-3502A , AO-3521A, B 'O' Rings	As Found	230
		As Left	<u>230</u>
		Savings	0
213A	Torus Construction Drain's 'O' Rings	As Found	97
		As Left	<u>5</u>
		Savings	92
213B	Torus Construction Drain's 'O' Rings	As Found	5
		As Left	<u>5</u>
		Savings	0
250	Test Nozzle	As Found	10
		As Left	<u>10</u>
		Savings	0
219	AO-2511, 2512 'O' Rings	As Found	5
		As Left	<u>5</u>
		Savings	0

TOTAL LEAKAGE SAVINGS = 17472 scc/min

PEACH BOTTOM UNIT 3
TYPE B TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
	DRYWELL HEAD		9/18/91	10		
			12/16/91	69		
					69	35
	RPV STABILIZER ASEM (A THRU H)		10/29/90	20		
			9/19/91	20		
			10/23/91	20		
					20	10
N-1	EQUIPMENT ACCESS HATCH		9/15/91	20		
		TEST TAP=120	11/22/91	130		
					130	5
N-2	PERSONNEL AIRLOCK		11/27/89	874		
			12/4/89	604		
			4/4/90	952		
			8/1/90	1372		
			11/19/90	2467		
			11/24/90	723		
			5/18/91	2002		
			5/27/91	545		
			5/28/91	1167		
	AIRLOCK 'O' RING		9/14/91	10		
					1239	615
N-4	HEAD ACCESS		9/18/91	10		
					10	5
N-6	CRD REMOVAL HATCH		10/24/90	10		
			11/18/90	10		
			9/13/91	10		
			12/19/91	10		
					10	5
N-7A	MAIN STEAM LINE BELLOW	(*1)-TOTAL FOR	10/31/90	612		
		N-7A,7B,7C,7D	9/22/91	480		
		9A,9B REPORTED UNDER 7A.			480	240
N-7B	MAIN STEAM LINE BELLOWS		* 1			
N-7C	MAIN STEAM LINE BELLOWS		* 1			
N-7D	MAIN STEAM LINE BELLOWS		* 1			

PEACH BOTTOM UNIT 3
TYPE B TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
N-9A	FEEDWATER LINE BELLOWS		* 1			
N-9B	FEEDWATER LINE BELLOWS		* 1			
N-11	HPCI STEAM LINE BELLOWS	(*2)-TOTAL FOR	10/31/90	20		
		N-11,12,13A	9/22/91	10		
		14A, 16A & 17			10	5
N-12	RHR SUCTION LINE BELLOW		* 2			
N-13A	RHR PUMP DISCHARGE BELLOW		* 2			
N-13B	RHR PUMP DISCHARGE BELLOW	(*3)-TOTAL FOR	10/25/90	500		
		N-13B & 16B	9/25/91	825		
			10/19/91	440		
					440	190
N-14A	RWCU SUCTION BELLOWS		* 2			
N-16A	CORE SPRAY BELLOWS		* 2			
N-16B	CORE SPRAY BELLOWS		* 3			
N-17	RPV HEAD SPRAY BELLOWS		* 2			
N-25	AO-3505,3519,3520 'O' RINGS		9/19/91	20		
					20	20
N-26	AO-3507,3506 'O' RINGS		9/13/91	10		
					10	10
N-35A-G	TIP PENETRATION 'O' RING	A-G TOGETHER	10/25/90	132		
			9/13/91	61		
					61	26
N-100A	ELECTRICAL	(*4)-TOTAL FOR	10/24/90	58		
		N-100A,100C	9/10/91	61		
		104A,104B,104C			71	10
		104D,105A,105B				
		106A,106B,107				
		220				
N-100C	ELECTRICAL		* 4			
N-100D	ELECTRICAL	(*5)-TOTAL FOR	10/25/90	43		

PEACH BOTTOM UNIT 3
TYPE B TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
		N-100D,100E,	9/10/91	20		
		101C,101D,101E,			20	10
		103B,104E,104F				
		104G,104H,105C				
		105D,105E,106C,				
		106D				
N-100E	ELECTRICAL		* 5			
N-101A	ELECTRICAL	(*6)-TOTAL FOR	10/24/90	20		
		N-101A,101B	9/10/91	20		
		101F,231A,231B			20	10
N-101B	ELECTRICAL		* 6			
N-101C	ELECTRICAL		* 5			
N-101D	ELECTRICAL		* 5			
N-101E	ELECTRICAL		* 5			
N-101F	ELECTRICAL		* 6			
N-103B	ELECTRICAL		* 5			
N-104A	ELECTRICAL		* 4			
N-104B	ELECTRICAL		* 4			
N-104C	ELECTRICAL		* 4			
N-104D	ELECTRICAL		* 4			
N-104E	ELECTRICAL		* 5			
N-104F	ELECTRICAL		* 5			
N-104G	ELECTRICAL		* 5			
N-104H	ELECTRICAL		* 5			
N-105A	ELECTRICAL		* 4			
N-105B	ELECTRICAL		* 4			
N-105C	ELECTRICAL		* 5			
N-105D	ELECTRICAL		* 5			

PEACH BOTTOM UNIT 3
TYPE B TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
N-105E	ELECTRICAL		* 5			
N-106A	ELECTRICAL		* 4			
N-106B	ELECTRICAL		* 4			
N-106C	ELECTRICAL		* 5			
N-106D	ELECTRICAL		* 5			
N-107	ELECTRICAL		* 4			
N-150	TEST NOZZLE		10/31/90	20		
		TEST TAP ONLY	9/11/91	10		
			9/13/91	20		
					20	20
N-200A	TORUS MANWAY N/E		10/24/90	20		
			9/11/91	20		
			12/19/91	10		
					20	5
N-200B	TORUS MANWAY S/W		10/24/90	20		
			11/11/90	20		
			9/11/91	20		
			11/22/91	20		
					20	5
N-201A	EXPANSION JOINT	(*7)-TOTAL FOR	10/25/90	41		
		N-201A, 201B	9/22/91	125		
			10/14/91	90		
					90	10
N-201B	EXPANSION JOINT		* 7			
N-201C	EXPANSION JOINT	(*8)-TOTAL FOR	10/25/90	20		
		N-201C & 201D	9/10/91	20		
					20	5
N-201D	EXPANSION JOINT		* 8			
N-201E	EXPANSION JOINT	(*9)-TOTAL FOR	10/25/90	222		
		N-201E, 201F	9/10/91	1377		
			11/15/91	240		
					240	120
N-201F	EXPANSION JOINT		* 9			

PEACH BOTTOM UNIT 3
TYPE B TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
N-201G	EXPANSION JOINT	(*10)-TOTAL FOR N-201G,201H	10/25/90	20		
			9/11/91	76	76	10
N-201H	EXPANSION JOINT		* 10			
N-205A	AO-2502B 'O' RING		9/12/91	10		
	AO-26B 'O' RING		11/1/91	10	10	10
N-205B	AO-3502A,AO-26A		9/12/91	20		
	AO-3521A,AO-3521B		9/19/91	230	230	230
	'O' RINGS					
N-213A	TORUS CONSTRUCTION DRAINS		10/25/90	37		
			9/11/91	203		
			11/6/91	20	20	5
N-213B	TORUS CONSTRUCTION DRAINS		10/25/90	20		
			9/11/91	20	20	5
N-219	AO-3511,AO-35		9/13/91	10	10	5
	'O' RINGS					
N-220	ELECTRICAL		* 4			
N-231A	ELECTRICAL		* 6			
N-231B	ELECTRICAL		* 6			
N-250	TEST NOZZ DOUBLE 'O' RING		9/11/91	10	10	5
TOTAL TYPE 'B' (cc/min)					3396	1672
TOTAL TYPE 'B' & 'C' (cc/min)					39860	22420

PEACH BOTTOM UNIT 3
TYPE C TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
N-7A	MSIV 80A and 86A	80A	10/28/90	383		
		86A	10/29/90	4131		
		86A PACKING	5/4/90	5642		
		80A	9/17/90	10500		
		86A	9/17/91	3542		
		TOTAL BOUNDARY	10/30/91	129		
					254	65
N-7B	MSIV 80B AND 86B	80B	10/28/90	702		
		86B	10/29/90	2628		
		80B	9/17/91	2163		
		86B	9/17/91	13478		
		TOTAL BOUNDARY	11/5/91	334		
					419	167
N-7C	MSIV 80C AND 86C	80C	10/28/90	1604		
		86C	10/29/90	1735		
		80C	9/17/91	1133		
		86C	9/17/91	2290		
					2300	1143
N-7D	MSIV 80D AND 86D	80D	10/28/90	7646		
		86D	10/29/90	29		
		TOTAL BOUNDARY	11/5/90	546		
		80D	9/17/91	21255		
		86D	9/17/91	1625		
		TOTAL BOUNDARY	10/22/91	350		
					360	175
N-8	MAIN STEAMLINE DRAINS		10/29/90	1502		
	MO-74&77		9/18/91	270		
					280	135
N-9A	FEEDWATER	CHK-96A	10/30/90	1641		
		CHK-28A	10/30/90	766		
		AO-18 FLANGE	5/22/91	10		
		AO-18 FLANGE	5/24/91	10		
		28A	9/27/91	688		
			9/27/91	1164		
		AO-18 FLANGE	10/26/91	10		
					1174	688
N-9B	FEED WATER	CHK-23B	10/31/90	5805		
		CHK 96B	10/31/90	7207		
		CHK-28B	9/26/91	4485		
		CHK-96B	9/27/91	4805		
		AO-22 FLANGE	10/26/91	10		

PEACH BOTTOM UNIT 3
TYPE C TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
					4815	4485
N-10	RCIC STEAM SUPPLY		5/4/91	2202		
	MO-13-15&16		5/4/91	90		
			9/19/91	2803		
			11/8/91	25		
					50	25
N-11	HPCI STEAM SUPPLY		10/30/90	10		
	MO-23-15&16		9/19/91	768		
			11/9/91	10		
					20	10
N-12	SHUTDOWN COOLING		10/27/91	898	908	449
N-13A	'B' RHR PUMP DISCHARGE	AO-46B &163B	10/30/90	14160		
		MO-10-25B	10/30/90	553		
		AO-46B &163B	11/5/90	5114		
		AO-46B &163B	11/13/90	5299		
		AO-46B &163B	9/19/91	2636		
		MO-10-25B	9/19/91	1160		
					2636	1170
N-13B	'A' RHR PUMP DISCHARGE	AO-46A &163A	11/8/90	4403		
		MO-10-25A	11/8/90	1266		
		AO-46A &163A	10/27/91	445		
		MO-10-25A	10/27/91	768		
					2768	445
N-14	RWCU SUCTION		10/30/90	817		
	MO-12-15&18		11/2/90	1084		
			10/31/91	509		
			11/17/91	189		
					199	95
N-16A	'A' CORE SPRAY LOOP	MO-14-12B	10/29/90	2445		
		MO-14-11B	10/29/90	23		
		MO-14-12B	11/13/90	424		
		MO-14-12B	9/17/91	429		
		MO-14-11B	9/17/91	154		
		AO-14-13B	10/11/91	325		
		AO-14-15B	10/11/91	75		
		MO-14-12B	10/11/91	200		
					400	200
N-16B	'B' CORE SPRAY	MO-14-12A	10/30/90	317		

PEACH BOTTOM UNIT 3
TYPE C TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
		MO-14-11A	10/30/90	8761		
		MO-14-11A	11/10/90	185		
		MO-14-11A	10/25/91	67		
		MO-14-12A	10/25/91	306		
		AO-13A	11/10/91	5		
		AO-15A	11/10/91	250		
		MO-14-12A	11/10/91	285		
					285	255
N-17	RPV HEAD SPRAY		11/9/90	10		
			9/20/91	10		
					20	5
N-18	D/W FLOOR DRAIN SUMP	AO-20-82	9/22/91	158		
	DISH	AO-20-83	9/22/91	589		
					599	168
N-19	D/W EQUIP DRAIN SUMP	AO-20-94	9/21/91	142		
	DISH	AO-20-95	9/21/91	731		
					731	142
N-21	D/W SERVICE AIR	HV-36A-30165	10/28/90	125		
		HV-36A-30163	10/28/90	80		
		HV-36A-30165	9/20/91	98		
		HV-36A-30163	9/20/91	68		
		CHK-30164 EXT.	12/16/91	10		
					98	68
N-22	A INST N2 TO D/W	CHK-33202A	10/29/90	10		
		AO-16-3969A	10/29/90	10		
		CHK-33202A	9/15/91	40		
		AO-16-3969A	9/15/91	10		
					50	10
N-23	RBCCW D/W ISO VALVES		11/2/90	10		
	MO-3373		9/20/91	10		
					20	20
N-24	RBCCW D/W ISO VALVES		11/2/90	10		
	MO-3374		9/20/91	14		
		TEST TAP	9/20/91	550		
					564	564
N-25	D/W PURGE SUPPLY	CHK-7B-50095B	9/15/91	2002		
		CHK-7A-50095A	9/15/91	116		
		AO-3523	9/15/91	1802		
	AO-3505,19,20,21 A&B		9/18/91	10		
		CHK-7A-50095A	10/29/91	250		

PEACH BOTTOM UNIT 3
TYPE C TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
		CHK-7B-50095B	10/29/91	260		
		AO-3523	10/29/91	160		
					970	610
N-26	PCAC SAMPLE		2/15/90	30		
			2/15/90	51		
			4/9/90	23		
			5/22/90	20		
			5/24/90	20		
		SV-3671G ONLY	2/2/91	20		
			8/20/91	20		
	D.W PURGE EXHAUST		9/13/91	50		
	D.W PURGE EXHAUST		9/13/91	151		
			11/7/91	95		
	B' CAD ANALYZER		12/20/89	120		
		SV-5961B&5966B	12/22/89	110		
		SV-5960B	12/27/89	OFF SCALE		
			12/28/89	711		
			1/24/90	994		
			1/26/90	279		
			8/23/91	290		
					450	95
N-32C & 32D, 218C	ILRT TEST V. ES		10/22/90	75		
			8/27/91	312		
					32	10
N-35C	TIP PLUG SUPPLY	SV-109	5/14/91	20		
		SV-109	5/14/91	20		
		SV-109	9/15/91	7507		
		CHK-51503	9/15/91	10		
		CHK-51503	11/14/91	10		
		SV-109	11/14/91	10		
					20	20
N-35B,D, E,F,G	'A-E' BALL VALVE		9/18/91	100		
					100	100
N-39A	'A' CAD INJECTION		8/30/91	35		
	'B' CONTAINMENT SPRAY		10/27/90	132		
			9/16/91	8608		
			10/5/91	330		
		PACKING	10/26/90	10		

PEACH BOTTOM UNIT 3
TYPE C TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
			9/17/91	10		
					375	200
N-39B	'B' CAD INJECTION		8/16/90	666		
			8/17/90	71		
			8/21/91	526		
			10/30/91	259		
	'A' CONTAINMENT SPRAY		11/7/90	5053		
			10/26/91	7507		
			10/31/91	6506		
			11/12/91	1950		
	MO-10-31A PACKING		11/8/90	10		
			10/26/91	10		
					2036	995
N-41	RECIRC SAMPLE VALVES		9/18/91	10		
					20	5
N-42	STANDBY LIQUID CONTROL	XV-14A & 14B	10/29/90	320		
		CHK VLV	10/31/90	10		
		XV-14A & 14B	11/1/90	101		
			11/11/91	10		
		CHK VLV	12/12/91	10		
		XV-14A & 14B	12/12/91	10		
					20	20
N-47	ADS BACKUP N2	CHK-33299B	8/18/90	10		
		CHK-33299B	9/23/91	10		
		SV-9130B	9/23/91	40		
					40	10
N-51A	PCAC SAMPLE		4/9/90	20		
	SV-3671E & SV-3978E		9/3/91	666		
			9/11/91	91		
					91	91
N-51B	PCAC SAMPLE		4/7/90	41		
	SV-3671D & SV-3978D		8/28/91	20		
					20	20
N-51C	PCAC SAMPLE		4/7/90	20		
	SV-3671C & SV-3978C		6/12/90	20		
			8/21/91	20		
	'C' CAD ANALYZER		1/4/90	620		
	SV-5961C, 5966C, 5960C		1/6/90	130		

PEACH BOTTOM UNIT 3
TYPE C TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
			8/27/91	546		
					566	270
N-51D	PCAC SAMPLE DISCHARGE	CHK-7D-50140	8/26/91	200		
		SV-7D-3980	8/28/91	20		
		SV-7D-3980	10/29/91	20		
					210	20
N-52F	'B' INST. NITROGEN	CHK-33202B	9/17/91	10		
		AO-3969B &	9/19/91	1001		
		CHK-33312	10/17/91	581		
					606	20
N-53	D/W CHILL WATER	MO-3201B	11/2/90	133		
			11/9/91	10		
					10	10
N-54	D/W CHILL WATER	MO-3200B	11/3/90	2197		
			11/9/91	476		
					476	476
N-55	D/W CHILL WATER	MO-3200B	11/3/90	2383		
			11/9/91	1001		
					1001	1001
N-56	D/W CHILL WATER	MO-3201A	11/2/90	746		
			11/9/91	2402		
					2402	2402
N-57	MAIN STEAM SAMPLE		10/29/90	616		
			9/18/91	275		
					285	138
N-102B	D/W BREATHING AIR		10/31/90	23		
			9/15/91	25		
	ADS N2 SUPPLY		9/25/91	35		
					79	27
N-203	PCAC SAMPLE		4/7/90	90		
			4/14/90	21		
			8/22/91	32		
	'D' CAD ANALYZER	5961B&66D	12/29/89	OFF SCALE		
			12/30/89	20		
			1/24/90	20		
		5961D&66D	1/26/90	20		
			10/3/90	20		

PEACH BOTTOM UNIT 3
TYPE C TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
		5960D	10/4/90	20		
			3/22/91	20		
			9/9/91	290		
					322	67
N-205A	TORUS VACCUM BREAKERS		9/12/91	50		
			11/1/91	195		
					195	93
N-205B	TORUS VACCUM BREAKER		9/12/91	221		
			10/23/91	168		
					178	84
N-211A	'A' CAD INJ		8/20/91	147		
N-210A	'B' TORUS COOL & SPRAY		10/26/90	55		
			9/17/91	1030		
	PACKING	PAR. MO-10-34B	10/27/90	21		
		PAR. MO-10-34B	9/18/91	20		
					1207	545
N-211B	'B' CAD INJ		8/22/91	90		
N-210B	'A' TORUS COOL & SPRAY		11/7/90	6042		
			10/26/91	3664		
	PACKING		11/8/90	8508		
			11/8/90	85		
			10/26/91	20		
					3714	1852
N-217B	RCIC EXHAUST		10/22/90	2954		
N-212			9/18/91	1853		
N-214						
	RCIC EXHAUST DRAIN		10/22/90	1213		
			9/18/91	421		
			11/8/91	651		
	STOP CHECK O'RING		10/22/90	10		
			9/18/91	371		
	HPCI EXHAUST		10/28/90	1528		
			9/22/91	537		
			10/28/91	715		

PEACH BOTTOM UNIT 3
TYPE C TEST SUMMARY

PENT NO.	SYSTEM OR DESCRIPTION	REMARKS	TEST DATE	LEAKAGE SCC/MIN	PENT TOTAL SCC/MIN (MAX PATH)	PENT TOTAL SCC/MIN (MIN PATH)
	HPCI EXHAUST DRAIN		10/28/90	194		
			9/22/91	344		
		TEST=200	11/13/91	380		
		TEST TAP	11/19/91	10		
	STOP CHK 'O' RING		10/27/90	10		
			9/21/91	10		
	RCIC VACUUM RELIEF		10/23/90	17275		
			10/25/90	36		
			5/11/91	8295		
			5/17/91	270		
			9/19/91	20		
	VACUUM RELIEF FLANGE		11/20/91	1425		
			11/25/91	72		
	HPCI VACUUM RELIEF		10/29/90	307		
			4/13/91	41		
			4/15/91	72		
			4/16/91	124		
			9/21/91	165		
			11/14/91	384		
					3411	414
N-218A	INST N2 TO TORUS	AO-3968	11/1/90	170		
	D/W VACUUM BKR.		9/20/91	190		
		CHK-16-33261	11/1/90	10		
			9/20/91	10		
					190	10
N-218B	PCAC SAMPLE	SV-3671A	4/7/90	10		
			6/12/90	10		
			8/19/91	71		
		SV-3978A	4/7/90	10		
			6/12/90	10		
			9/24/90	10		
			8/19/91	14		
					71	24
N-219	PCAC SAMPLE		4/9/90	56		
			9/25/90	447		
			9/27/90	20		

TYPE C TEST SUMMARY

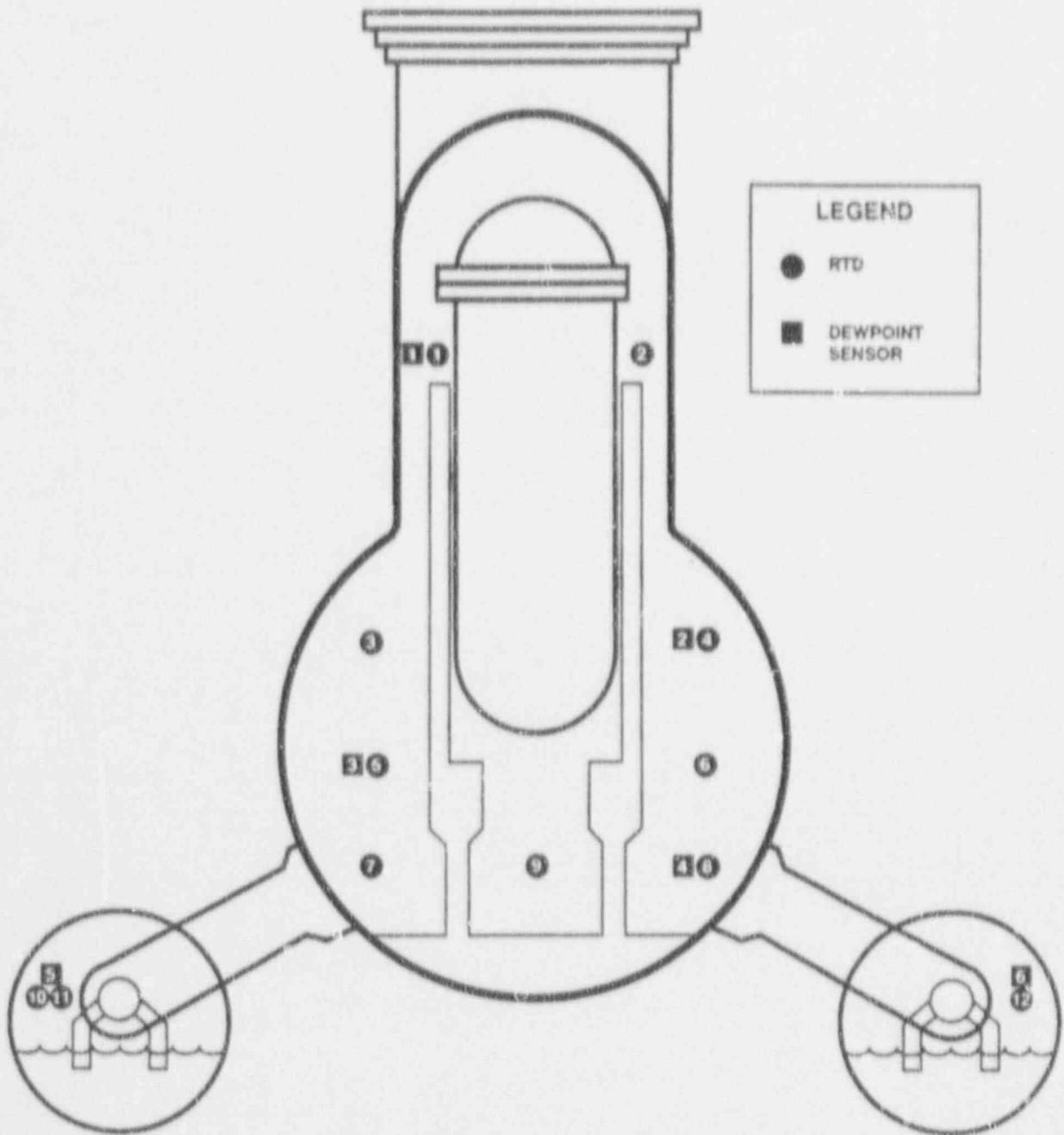
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APPENDIX G

SENSOR LOCATIONS AND VOLUME FRACTIONS

PEACH BOTTOM UNIT 3

SENSOR LOCATION



PEACH BOTTOM 3

INSTALLED CONSTANTS

RTD WEIGHT FACTORS

RTD 1 WEIGHT FACTOR	= 0.060300
RTD 2 WEIGHT FACTOR	= 0.060300
RTD 3 WEIGHT FACTOR	= 0.064000
RTD 4 WEIGHT FACTOR	= 0.064000
RTD 5 WEIGHT FACTOR	= 0.092300
RTD 6 WEIGHT FACTOR	= 0.092300
RTD 7 WEIGHT FACTOR	= 0.052200
RTD 8 WEIGHT FACTOR	= 0.052200
RTD 9 WEIGHT FACTOR	= 0.027400
RTD 10 WEIGHT FACTOR	= 0.145000
RTD 11 WEIGHT FACTOR	= 0.145000
RTD 12 WEIGHT FACTOR	= 0.145000

RTD WEIGHTING FACTOR SUM	= 1.000000

PRESSURE GAUGE WEIGHT FACTORS

PRESS. GAUGE # 1 WEIGHT FACTOR	= 0.5000
PRESS. GAUGE # 2 WEIGHT FACTOR	= 0.5000

PRESS. GAUGE WEIGHTING FACTOR SUM	= 1.0000

DEW CELL WEIGHT FACTORS

DEW CELL 1 WEIGHT FACTOR	= 0.000000
DEW CELL 2 WEIGHT FACTOR	= 0.168200
DEW CELL 3 WEIGHT FACTOR	= 0.224800
DEW CELL 4 WEIGHT FACTOR	= 0.172000
DEW CELL 5 WEIGHT FACTOR	= 0.000000
DEW CELL 6 WEIGHT FACTOR	= 0.435000

DEW CELL WEIGHTING FACTOR SUM	= 1.000000

CONTAINMENT VOLUME	= 293900
LA	= 0.50