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 Integrated Leakage Rate Test Rept." W/930817 ltr.

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DUKE POWER

August 17, 1993

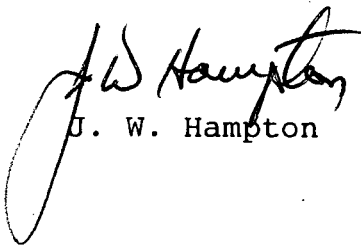
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Subject: Oconee Nuclear Site
Docket No. 50-270
Reactor Containment Building
Integrated Leak Rate Test

Gentlemen:

Pursuant to 10 CFR 50, Appendix J, Section V.B, and Oconee Nuclear Station Technical Specification 4.4.1.1.5, please find attached the Oconee Unit 2 Reactor Containment Integrated Leak Rate Test Report for June, 1993.

Very truly yours,


J. W. Hampton

cc: Mr. S. D. Ebnetter, Regional Administrator
U. S. Nuclear Regulatory Commission, Region II

Mr. L. A. Wiens, Project Manager
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Duke Power Company

Oconee Nuclear Station
Unit 2

Reactor Containment Building Integrated
Leakage Rate Test Report

June 1993

Submitted to
The United States Nuclear Regulatory Commission
Docket Number 50-270-DPR-47

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I. INTRODUCTION

A periodic Type A Containment Integrated Leakage Rate Test (ILRT) was successfully conducted on the primary containment structure of the Oconee Nuclear Station, Unit 2 pressurized water reactor. The test was completed on June 11, 1993. The purpose of the test was to demonstrate that leakage through the primary reactor containment, and systems and components penetrating primary containment does not exceed the allowable leakage rate specified in the Plant Technical Specifications.

The test was conducted in accordance with the requirements of 10CFR50, Appendix J using the Absolute Method defined in ANSI N45.4-1972. The leakage rate was calculated for both the Type A test and the verification test using the Total Time methodology and the calculational requirements of BN-TOP-1, Revision 1, "Testing Criteria for Integrated Leakage Rate Testing of Primary Containment Structures for Nuclear Power Plants." Leakage rates for both the Type A test and the verification test were also calculated, for information only, using the Mass Point methodology given by ANSI/ANS 56.8-1987. The ILRT was performed at a pressure in excess of the calculated peak containment internal pressure related to the design basis accident as specified in the Final Safety Analysis Report (FSAR) and the Plant Technical Specifications.

This report describes and presents the results of this periodic Type A test, including the supplemental test method used for verification. The summary of events and test chronology are presented in Section II, Test Synopsis. Plant information, technical data, test results and measurement system information are presented in Section III, Test Data Summary. The test results are compared with the Acceptance Criteria in Section IV, Analysis and Interpretation. A summary of the local leakage rate testing (Type B and C) performed since the last ILRT is also provided in this report as Appendix F.

The "As Left" Type A test result reported at the 95 percent upper confidence limit is 0.1509 percent of the contained mass per day. The "As Found" Type A test result reported at the 95 percent upper confidence limit is also 0.1509 percent of the contained mass per day. The acceptance criteria specified in the plant Technical Specifications is a leakage rate less than $0.75 L_a$, or 0.1875 percent of the contained air mass per day.

II. TEST SYNOPSIS

Preparations to pressurize containment for the conduct of the ILRT included internal and external inspections of the containment structure; installation and checkout of the ILRT instrumentation; completion of all Type B and Type C local leakage rate testing; alignment of valves and breakers for test conditions; and the installation and checkout of the temporary pressurization facilities. All preparations were completed on June 9, 1993. Temperature sensor number 2 was not installed due to a short in the auxiliary building side of the electrical penetration. Its assigned volume fraction was added to the volume fraction for temperature sensor number 13.

Containment pressurization started at 1330 on June 9, 1993. Pressurization continued at an average rate of 4.2 psi/hr using the 10,500 scfm capacity available from the seven diesel driven air compressors. Both "A" and "C" reactor building cooling unit fans were operated in low speed at this time. A containment air sample was taken by Radiation Protection personnel at a building pressure of 40 psig and both "A" and "C" reactor building cooling unit fans were removed from service at 45 psig. At 0355 on June 10, with a building pressure of 60.0 psig, two compressors were secured. At 0430, with five compressors still running, the building test pressure of 61.36 psig was reached. The pressurization line was isolated and vented and the stabilization period started.

The temperature stabilization period was started with data set number 61 at 0430. At 0445, Quality Assurance was given permission to perform a visual inspection on valves 2LDW99 and 2LDW103 - this visual inspection was completed at 0500. Four and one-half hours into the stabilization period, both BN-TOP-1 and ANSI 56.8-1987 temperature stabilization criteria were satisfied. Stabilization data continued for 3.5 additional hours to allow for the contained air mass to stabilize sufficiently to start the test. Penetration leak searches were periodically conducted throughout the pressurization and stabilization phases - no significant leaks were observed.

The Type A test period started with data set number 93, at 1230 on June 10. By 1500 the Upper Confidence Limit leak rates for both the Total Time and Mass Point calculations were within the acceptance limit. A successful 6.5 hour test was completed at 1900, with data set number 119. The Total Time and Mass Point Leak Rates at the 95 % Upper Confidence Limit were 0.1506 wt.%/day and 0.1190 wt.%/day respectively. All BN-TOP-1 termination criteria were also met at this time.

A verification flow (corrected for temperature and backpressure) of 15.59 scfm (0.2446 wt. %/day) was initiated at 1905 on June 10. Following the one hour stabilization period required by BN-TOP-1, a successful 3.25 hour verification test was performed from 2005 to 2325. The composite leakage rates calculated during this period were 0.3031 wt. %/day for the Total Time method and 0.3264 wt. %/day for the Mass Point method.

Depressurization began at 2330 on June 10 and was complete at 0725 on June 11. The primary flow path was through Penetration 51 - the eight inch ILRT pressurization and depressurization pathway. Additional paths were available through a two inch path located on the emergency personnel hatch bulkhead and through the hydrogen recombiner suction and discharge lines. Depressurization was accomplished in 7.9 hours at an average rate of 7.6 psi/hr. No equipment damage was found during the post-ILRT containment inspection.

A containment pressure time line for the entire test period is included in Appendix D.

Test Chronology

| <u>Phase</u> | | <u>Data Set No.</u> | <u>Time Period</u> | <u>Duration</u> |
|--|-------|---------------------|--------------------|-----------------|
| Pressurization | From: | 001 | 1330 on 6/09/93 | 15.0 |
| | To: | 061 | 0430 on 6/10/93 | |
| Temperature Stabilization | From: | 061 | 0430 on 6/10/93 | 8.0 |
| | To: | 093 | 1230 on 6/10/93 | |
| ILRT | From: | 093 | 1230 on 6/10/93 | 6.5 |
| | To: | 119 | 1900 on 6/10/93 | |
| Leak Stabilization for Verification Test | From: | 120 | 1905 on 6/10/93 | 1.0 |
| | To: | 126 | 2005 on 6/10/93 | |
| Verification Test | From: | 126 | 2005 on 6/10/93 | 3.3 |
| | To: | 146 | 2325 on 6/10/93 | |
| Depressurization | From: | 147 | 2330 on 6/10/93 | 7.9 |
| | To: | 178 | 0725 on 6/11/93 | |

Total Elapsed Time: 41.9 hours

III. TEST DATA SUMMARY

A. Plant Information

| | |
|---------------------|--------------------------------------|
| Owner | Duke Power Company |
| Plant | Oconee Nuclear Station, Unit 2 |
| Location | Hwy 130 & 183 Seneca, South Carolina |
| Containment Type | Prestressed, post-tensioned concrete |
| NSSS Supplier, Type | B&W, PWR |
| Docket No. | 50-270 |
| License No. | DPR-47 |

B. Technical Data

| | |
|--|-------------------|
| Containment Net Free Air Volume | 1,836,000 cu. ft. |
| Design Pressure, P | 61.5 psig |
| Design Temperature, T | 150 °F |
| Calculated Peak Accident Pressure, P _a | 59.0 psig |
| Calculated Peak Accident Temperature | 286 °F |
| Maximum Allowable Leakage Rate, L _a | 0.250 wt. % / day |

C. Test Results - Type A Test

| | |
|---|--|
| 1. Test Method | Absolute |
| 2. Test Pressure | 60.48 psig |
| 3. Data Analysis Techniques | Total Time (per BN-TOP-1, 1972), Mass Point (for information only, per ANSI/ANS 56.8-1987) |
| 4. ILRT Acceptance Criteria ($< 0.75 L_a$) | 0.1875 wt. % / day |

- | | | | |
|----|----------------------------------|-------------------|-------------------|
| 5. | Type A Test Results | BN-TOP-1 | ANSI 56.8 |
| | | <u>Total Time</u> | <u>Mass Point</u> |
| | Simple Leakage Rate | 0.1143 wt.%/day | 0.1143 wt.%/day |
| | Fitted Leakage Rate (L_{am}) | 0.1169 wt.%/day | 0.1152 wt.%/day |
| | Upper 95 % Confidence Level | 0.1506 wt.%/day | 0.1190 wt.%/day |
6. All acceptance criteria for the Reduced Duration BN-TOP-1 ILRT were satisfied in 6.5 hours. A printout of the BN-TOP-1 Total Time Termination Criteria is included in Appendix B. Report printouts and data plots for both the Total Time and the Mass Point Analysis techniques are also provided in Appendix B.

D. Verification Controlled Leakage Rate Test Results

1. Verification Test Super-imposed Leakage Rate (L_o) 15.59 SCFM (0.2446 wt.%/day)
2. Verification Test Total Time Analysis Results and Limits

| | |
|---|-----------------|
| Upper Limit ($L_o + L_{am} + 0.25 L_a$) | 0.4240 wt.%/day |
| Verification Test Total Time Results (L_c) | 0.3031 wt.%/day |
| Lower Limit ($L_o + L_{am} - 0.25 L_a$) | 0.2990 wt.%/day |
3. Verification Test Mass Point Analysis Results and Limits (Presented for information only)

| | |
|---|-----------------|
| Upper Limit ($L_o + L_{am} + 0.25 L_a$) | 0.4223 wt.%/day |
| Verification Test Mass Point Results (L_c) | 0.3264 wt.%/day |
| Lower Limit ($L_o + L_{am} - 0.25 L_a$) | 0.2973 wt.%/day |
4. The report printouts and data plots for both the Total Time Analysis and Mass Point Analysis techniques are provided in Appendix C.

E. Test Results - Type B and C Tests

A summary of the local leakage rate test results conducted since the last Unit 2

ILRT conducted in October, 1990 is included in Appendix F.

F. Integrated Leakage Rate Measurement System

The containment system was equipped with instrumentation to permit leakage rate determination by the absolute method. Data from the absolute system is reduced to a containment air mass by application of the Ideal Gas Law. The leakage rate is equal to the time rate of change of this value. The mass of dry air, W within containment is calculated as follows:

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

where: P = Containment Total Absolute Pressure
 P_v = Containment Water Vapor Pressure (Average)
 V = Containment Net Free Volume
 R = Gas Constant for Air
 T = Containment Absolute Temperature (Average)

The primary measurement variables required are containment absolute pressure, containment dew point temperature and containment temperature as a function of time. During the supplemental verification test, the calibrated leakage imposed on the existing leakage in the containment system is also recorded.

1. Absolute Pressure (2 Sensors)

| | |
|--------------------|--|
| Type: | Paroscientific Model 760-A Portable Field Standard |
| Range: | 0-100 psia |
| Relative Accuracy: | ± 0.01 % Full Scale |
| Repeatability: | ± 0.005 % Full Scale |
| Sensitivity: | ± 0.0001 psia |
| Calibration Date: | March 17-18, 1993 |

The sensors provide an RS232 direct digital input to the computer. Both sensors were used with a weighting factor of 0.5 in the leakage rate calculations.

2. Dew Point Temperature (6 Sensors)

| | |
|-------|--|
| Type: | General Eastern Hygro-E1 Optical Dew Point Monitor with Model 1111H single stage sensor |
|-------|--|

Range: -40°F - 140°F, Analog output rescaled from 20°F - 100°F dew point, corresponding to 4 - 20 mA.
 Accuracy: ± 1.0 °F
 Repeatability: ± 0.09 °F
 Sensitivity: ± 0.09 °F
 Calibration Date: May 5-10, 1993

3. Dry Bulb Temperature (23 Sensors)

Type: Rosemount Model No. 78S, 4 wire, 100 ohm platinum Resistance Temperature Detector, RTD
 Calibrated Range: 0°F - 200°F
 Accuracy: ± 0.45 °F over entire range
 Sensitivity: ± 0.09 °F (for conservatism, the manuf. specified repeatability is used for this value in the ISG calculation.)
 Calibration Date: April 27, 1993

4. Data Acquisition System

The data acquisition system consists of a Fluke 2289A Helios system front end which interfaces with an IBM compatible, 486 processor computer. The Fluke system acquires data from the dew point sensors and the dry bulb temperature sensors. The required cards and pertinent data are as follows:

Dew Point - DC current measurement

Cards Required: 161 High Performance A/D
 162 Thermocouple / DC Volts
 171 Current Input Connector
 Range: ± 64 mA
 * Accuracy: ± 0.02 % of Input, ± 5 μ A (15°C-35°C Operating Temp.)
 Repeatability: ± 0.015 % of Input, ± 2 μ A
 Resolution: 0.6 μ A
 Calibration Date: April 21, 1993
 * Note: Accuracy improved over manuf. stated spec. due to change to 8 ohm, ± 0.01 % precision resistors.

Temperature - RTD Resistance Measurement

Cards Required: 161 High Performance A/D
 163 RTD / Resistance Scanner
 177 RTD / Resistance Input Connector
 Range: 256 ohms
 Accuracy: ± 0.0175 % of Input, ± 5.7 m ohms (15°C-35°C Operating Temp)

Repeatability: ± 0.005 % of Input, ± 4 m ohms
 Resolution: 2.4 m ohms
 Calibration Date: April 21, 1993

5. Verification Flow (2 flowmeters)

Type: Brooks Hi-Accuracy, Full-View Flowmeter, Model No. 1110, 10K3B1A
 Calibrated Range: 0 - 9.5 SCFM
 Accuracy: ± 1 % Full Scale
 Calibration Dates: April 28, 1993

Two flowmeters are installed in parallel for the verification test. The imposed leak rate is equal to the sum of the readings from the two meters.

6. Instrumentation Selection Guide (ISG) Calculation

The ISG calculation is a method used to evaluate the total instrumentation systems' ability to detect leakage rates in the range required. The ISG formula is described in ANSI/ANS 56.8-1987, Appendix G and requires that the sensitivity must be at least four times better than the containment's allowable leakage ($ISG \leq 0.25 L_a$). The ISG calculated for the instrumentation used for this test was 0.0336 wt.%/day for the 6.5 hour test. The allowable value for this test is 0.0625 wt.%/day.

The ISG value given by the computer for the end of test data point reflects actual containment atmospheric conditions and the number of sensors in service at that time. For this test, the ISG value is based on 2 pressure sensors, 6 dew point sensors and 23 temperature sensors.

7. Sensor Calibration Information and Volume Fractions

Appendix D, Miscellaneous Information contains a Sensor Information report. This report lists the calibration coefficients for each sensor, instrument serial numbers, DAS channel assignments and final volume fraction assignments as installed for the 1993 ILRT.

G. Description of Computer Program

The Duke Power ILRT is written in the C programming language and runs under the *Microsoft (R) Windows* operating environment. Through use of pull down menus, the user is made aware of all program options at any given time. All data including individual sensor readings, containment average readings and leakage calculations are

accessible through spreadsheet data display windows, graphs, standardized reports, custom reports and data files written to disk. The program provides for multiple views of test data, both graphical and tabular, and also provides for real time updating of the displays with each new data set. Both ANSI 56.8 mass point and BN-TOP-1 total time leakage calculations are performed concurrently.

The ILRT program actually consists of two separate programs. The main program, called LEAK.EXE, is a generic data analysis and reporting program. It can be used at any facility with no changes required, as its *personality* is derived from a configuration file developed prior to each test. The configuration file specifies all plant specific information, such as station name, unit number, number of compartments in containment, number of each sensor type within each compartment, sensor calibration constants, volume fractions, serial numbers, DAS channel assignments and containment volume. The second program, called DATACQ.EXE, controls data acquisition and is customized for the type of system being used.

The ILRT program calculations were verified prior to test performance by loading a hand verified benchmark Raw Data File and Configuration Data file into the subdirectory containing the ILRT program. Following selection of the Configuration data file, a Test Data file was recalculated by the program. Having rebuilt the Test Data File, all calculated values output by the program were compared with the benchmark calculations. Exact agreement (to the same number of significant figures given in the Benchmark Summary) was achieved between the benchmark calculation and the ILRT program output.

H. Information Retained at Plant

The following information is available for review at Oconee Nuclear Station:

1. A listing of all containment penetrations, including the total number of like penetrations, penetration size and function.
2. A listing of normal operating instrumentation used for the leakage rate test.
3. A system lineup (at time of test), showing required valve positions and status of piping systems.
4. A continuous sequential log of events from initial survey of containment to

restoration of all tested systems.

5. Documentation of instrumentation calibration and standards.
6. The working copy of the test procedure that includes signature sign-off of procedural steps.
7. The procedure and all data that would verify completion of penetrations and valve testing (Type B and C tests), including as found leakage rates, corrective action taken, and final leak rate.
8. A listing of all test exceptions including changes in containment system boundaries instituted by Oconee to conclude successful testing.
9. Description of method of leak rate verification of instrument measuring system (superimposed leakage), with calibration information on flowmeters along with calculations that were used to measure the verification leakage rate.
10. The Instrumentation Selection Guide (ISG) Calculation
11. The P&ID's of pertinent systems.

IV. ANALYSIS AND INTERPRETATION

A. ILRT Test Corrections

In accordance with 10CFR50 Appendix J, Section III A.1.D, leakage penalties must be added to the Type A test result. During the ILRT three penetrations in addition to the electrical penetrations were not placed in the post-LOCA alignment. The penetrations and minimum pathway "As Left" leakage rates are given below:

| <u>Penetration</u> | <u>Description</u> | <u>Reason</u> | <u>Leakage Rate</u> |
|--------------------|-------------------------------|--|---------------------|
| (4) E Penet. | Conax Electrical Penetrations | N ₂ gas left in penet. | 8 sccm |
| P-41 | Instrument Air | Superimposed leak path. | 77 sccm |
| P-45A | Valves 2LRT-24 & 2LRT-25 | ILRT instrument pressure sensing line. | 20 sccm |

| <u>Penetration</u> | <u>Description</u> | <u>Reason</u> | <u>Leakage Rate</u> |
|--------------------|--------------------------------|--|------------------------------------|
| P-48 | Breathing Air | Procedural discrepancies with penetration lineup. | 107 sccm |
| P-51 | Blind Flange and Valve 2LRT-17 | Cont. pressurization/depressurization path. | 24 sccm |
| P-92 | Emergency Personnel Hatch | Inner door open to provide additional depressurization path. | 330 sccm |
| Total: | | | 566 sccm <u>0.0003</u> wt.%/day |

Water volume changes in containment during the ILRT were negligible. During the period from 1230 on 6/10, to 2330 on 6/10, the reactor building normal sump, the quench tank and the core flood tank levels remained constant. During this same period, the Once-Through-Steam-Generator (OTSG) levels also remained constant.

B. Reported "As Left" ILRT Results

The results of the ILRT to be reported including all corrections are:

| | <u>Total Time Analysis</u> | <u>Mass Point Analysis</u> |
|---------------------------------------|----------------------------|----------------------------|
| Calculated Leakage Rate at 95% UCL | 0.1506 wt.%/day | 0.1190 wt.%/day |
| Corrections | 0.0003 wt.%/day | 0.0003 wt.%/day |
| "As Left" Leakage Rate | 0.1509 wt.%/day | 0.1193 wt.%/day |
| Acceptance Criterion ($< 0.75 L_a$) | < 0.1875 wt.%/day | |

Since both the "As Left" Total Time and Mass Point UCLs are less than $0.75L_a$, the test results demonstrate that the leakage through the primary containment and systems and components penetrating containment does not exceed the allowable leakage rate specified in the Oconee Nuclear Station FSAR and the Technical Specifications.

C. "As Found" Evaluation of Containment

In a letter dated July 27, 1989 (Reference J) to Duke Power Company, the Director of NRR concluded that "As Found" Type A testing is not an explicit requirement of the regulations. Therefore, the "As Found" evaluation in accordance with NRC IE Notice No. 85-71, "Containment Integrated Leak Rate Tests", does not currently apply to Oconee Nuclear Station.

However, 10 CFR 50 Appendix J, Section III.A.1.(a) requires that, "during the period between the initiation of the containment inspection and the performance of the Type A test, no repairs or adjustments shall be made so that the containment can be tested in as close to the 'as is' condition as practical." Following the time of the initiation of the containment inspection, described by paragraph V.A. of Appendix J, and the completion of the Type A test, preparatory repairs and adjustments were made to containment purge penetration P-20; however, its "As Found" value when tested at the start of the outage was slightly less than the "As Left" value. The "As Found" Type A result is determined by adding the total leakage savings resulting from the repair or adjustment to the "As Left" Type A test result. These corrections are the difference between the pre-repair leakages (but not negative), calculated in the minimum pathway case for each purge penetration.

| <u>Penetration</u> | <u>Description</u> | <u>Minimum Pathway Leakage Difference</u> | |
|---------------------------------------|--|---|--------------------------------|
| P-20 | Containment Purge Valve 2PR-1 & 2PR2. | 0 sccm | |
| | Total Leakage Savings: | 0 sccm | |
| | | 0 wt.%/day | |
| | | <u>Total Time Analysis</u> | <u>Mass Point Analysis</u> |
| "As Left" Leakage Rate | | 0.1509 wt.%/day | 0.1193 wt.%/day |
| Total Leakage Savings | | 0.0000 wt.%/day | 0.0000 wt.%/day |
| "As Found" Leakage Rate | | 0.1509 wt.%/day | 0.1193 wt.%/day |
| Acceptance Criterion ($< 0.75 L_a$) | | < 0.1875 wt.%/day | |

V. REFERENCES

- A. Oconee Nuclear Station FSAR Sections 3.8.1.7.3 and 3.8.1.7.4.
- B. Oconee Nuclear Station Technical Specifications; Section 4.4.1.1.
- C. Oconee Nuclear Station, Procedure PT/2/A/0150/03A, Unit 2, Reactor Building Integrated Leak Rate Test, Change 10.
- D. Oconee Nuclear Station, Procedure PT/2/A/0150/03C, Integrated Leak Rate Test Penetration Venting and Draining, Change 7.
- E. Duke Power Company Integrated Leak Rate Test Software Documentation, Version 1.76.
- F. Oconee Nuclear Station, Procedure MP/2/A/3005/010, Unit 2, Reactor Building Civil Inspection for Integrated Leak Rate Test (ILRT), Change 3.
- G. Code of Federal Regulations, Title 10, Part 50, Appendix J, "Primary Reactor Containment Leakage Testing for Water Cooled Power Reactors".
- H. ANSI/ANS 56.8-1987, "Containment System Leakage Testing Requirements".
- I. Bechtel Topical Report BN-TOP-1, "Testing Criteria for Integrated Leakage Rate Testing of Primary Containment Structures for Nuclear Power Plants", Revision 1, 1972.
- J. ANSI N45.4-1972, "Leakage-Rate Testing of Containment Structures for Nuclear Reactors".
- K. July 27, 1989 Letter to Mr. H. B. Tucker, Vice President Duke Power Company from Mr. Thomas E. Murley, Director Office of Nuclear Regulation, Determination of Backfit Appeal Regarding Containment Integrated Leakage Rate Testing at Oconee, McGuire, and Catawba Nuclear Station (TACS 68443-68449).

SECTION VI
APPENDICES

APPENDIX A

Temperature Stabilization Phase Data and Graphs Reading No. 61 to 93

Reports:

- BN-TOP-1 Temperature Stabilization Criteria
- Mass Point Temperature Stabilization Criteria
- Containment Calculated Values by Reading No.

Graphs:

- Containment Mass
- Average Pressure & Average Temperature
- Average Vapor Pressure
- Average Dew Point

BN-TOP-1 Temperature Stabilization

Oconee Nuclear Station
Unit 2 - 6/93

Page 1 of 1

| TIME | TEMP | AVE. DT OVER LAST 2 HOURS | RATE OF DT CHANGE OVER LAST 2 HOURS |
|-------|--------|-----------------------------|-------------------------------------|
| t | T | $\frac{ T_t - T_{t-2} }{2}$ | |
| HOURS | °F | °F/HR | °F/HR/HR |
| 04:30 | 80.045 | | |
| 04:45 | 79.381 | | |
| 05:00 | 78.680 | | |
| 05:15 | 78.153 | | |
| 05:30 | 77.722 | | |
| 05:45 | 77.374 | | |
| 06:00 | 77.096 | | |
| 06:15 | 76.863 | | |
| 06:30 | 76.659 | 1.692 | 1.258 |
| 06:45 | 76.481 | 1.449 | 1.113 |
| 07:00 | 76.326 | 1.176 | 0.813 |
| 07:15 | 76.181 | 0.985 | 0.607 |
| 07:30 | 76.053 | 0.834 | 0.456 |
| 07:45 | 75.936 | 0.719 | 0.347 |
| 08:00 | 75.825 | 0.635 | 0.269 |
| 08:14 | 75.721 | 0.574 | 0.219 |
| 08:29 | 75.636 | 0.514 | 0.187 |
| 08:43 | 75.548 | 0.473 | 0.150 |
| 09:00 | 75.463 | 0.432 | 0.138 |
| 09:15 | 75.391 | 0.394 | 0.137 |
| 09:30 | 75.313 | 0.369 | 0.101 |
| 09:45 | 75.256 | 0.340 | 0.112 |
| 10:00 | 75.198 | 0.313 | 0.098 |
| 10:15 | 75.135 | 0.291 | 0.070 |
| 10:30 | 75.073 | 0.279 | 0.079 |
| 10:44 | 75.028 | 0.257 | 0.054 |
| 11:00 | 74.974 | 0.244 | 0.040 |
| 11:15 | 74.933 | 0.229 | 0.053 |
| 11:30 | 74.876 | 0.218 | 0.043 |
| 11:45 | 74.847 | 0.205 | 0.050 |
| 12:00 | 74.805 | 0.197 | 0.055 |
| 12:15 | 74.773 | 0.181 | 0.043 |
| 12:30 | 74.744 | 0.165 | 0.065 |

Mass Point Temperature Stabilization

Oconee Nuclear Station
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| ① | ② | ③ | ④ | ⑤ |
|-------|--------|-----------------------------|------------------------|-----------|
| TIME | TEMP | AVE. DT OVER LAST 4 HOURS | AVE. DT OVER LAST HOUR | |
| t | T | $\frac{ T_t - T_{t-4} }{4}$ | $ T_t - T_{t-1} $ | ⑤ = ③ - ④ |
| HOURS | °F | °F/HR | °F/HR | °F/HR |
| 04:30 | 80.045 | | | |
| 04:45 | 79.381 | | | |
| 05:00 | 78.680 | | | |
| 05:15 | 78.153 | | | |
| 05:30 | 77.722 | | | |
| 05:45 | 77.374 | | | |
| 06:00 | 77.096 | | | |
| 06:15 | 76.863 | | | |
| 06:30 | 76.659 | | | |
| 06:45 | 76.481 | | | |
| 07:00 | 76.326 | | | |
| 07:15 | 76.181 | | | |
| 07:30 | 76.053 | | | |
| 07:45 | 75.936 | | | |
| 08:00 | 75.825 | | | |
| 08:14 | 75.721 | | | |
| 08:29 | 75.636 | 1.104 | 0.421 | 0.683 |
| 08:43 | 75.548 | 0.964 | 0.398 | 0.566 |
| 09:00 | 75.463 | 0.804 | 0.362 | 0.442 |
| 09:15 | 75.391 | 0.690 | 0.326 | 0.364 |
| 09:30 | 75.313 | 0.602 | 0.319 | 0.283 |
| 09:45 | 75.256 | 0.529 | 0.284 | 0.245 |
| 10:00 | 75.198 | 0.474 | 0.264 | 0.210 |
| 10:15 | 75.135 | 0.432 | 0.256 | 0.176 |
| 10:30 | 75.073 | 0.396 | 0.240 | 0.157 |
| 10:44 | 75.028 | 0.364 | 0.230 | 0.134 |
| 11:00 | 74.974 | 0.338 | 0.224 | 0.114 |
| 11:15 | 74.933 | 0.312 | 0.203 | 0.109 |
| 11:30 | 74.876 | 0.294 | 0.197 | 0.097 |
| 11:45 | 74.847 | 0.272 | 0.180 | 0.092 |
| 12:00 | 74.805 | 0.255 | 0.169 | 0.086 |
| 12:15 | 74.773 | 0.236 | 0.160 | 0.077 |
| 12:30 | 74.744 | 0.222 | 0.132 | 0.090 |

Containment Calculated Values

Page 1 of 2

Oconee Nuclear Station
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| RDG | TIME | MASS | TEMP | VAPOR PRESS | PRESSURE |
|-----|----------|-----------|--------|-------------|----------|
| 61 | 04:30:09 | 691543.25 | 80.045 | 0.3324 | 75.6476 |
| 62 | 04:45:10 | 690872.88 | 79.381 | 0.3332 | 75.4830 |
| 63 | 05:00:10 | 690830.71 | 78.680 | 0.3363 | 75.3837 |
| 64 | 05:15:11 | 690869.14 | 78.153 | 0.3324 | 75.3105 |
| 65 | 05:30:11 | 690877.22 | 77.722 | 0.3339 | 75.2527 |
| 66 | 05:45:12 | 690864.73 | 77.374 | 0.3357 | 75.2048 |
| 67 | 06:00:12 | 690828.22 | 77.096 | 0.3386 | 75.1649 |
| 68 | 06:15:13 | 690810.25 | 76.863 | 0.3377 | 75.1296 |
| 69 | 06:30:13 | 690730.46 | 76.659 | 0.3438 | 75.0986 |
| 70 | 06:45:14 | 690699.61 | 76.481 | 0.3450 | 75.0717 |
| 71 | 07:00:14 | 690673.33 | 76.326 | 0.3446 | 75.0468 |
| 72 | 07:15:15 | 690643.28 | 76.181 | 0.3458 | 75.0246 |
| 73 | 07:30:15 | 690607.31 | 76.053 | 0.3475 | 75.0046 |
| 74 | 07:45:16 | 690574.45 | 75.936 | 0.3485 | 74.9856 |
| 75 | 08:00:16 | 690558.36 | 75.825 | 0.3486 | 74.9686 |
| 76 | 08:14:41 | 690552.25 | 75.721 | 0.3483 | 74.9531 |
| 77 | 08:29:42 | 690527.16 | 75.636 | 0.3483 | 74.9386 |
| 78 | 08:43:45 | 690515.03 | 75.548 | 0.3485 | 74.9252 |
| 79 | 09:00:15 | 690487.35 | 75.463 | 0.3491 | 74.9110 |
| 80 | 09:15:23 | 690464.56 | 75.391 | 0.3493 | 74.8987 |
| 81 | 09:30:23 | 690445.22 | 75.313 | 0.3505 | 74.8869 |
| 82 | 09:45:23 | 690417.26 | 75.256 | 0.3513 | 74.8767 |
| 83 | 10:00:24 | 690400.35 | 75.198 | 0.3505 | 74.8661 |
| 84 | 10:15:24 | 690397.59 | 75.135 | 0.3502 | 74.8567 |
| 85 | 10:30:25 | 690399.83 | 75.073 | 0.3491 | 74.8472 |
| 86 | 10:44:44 | 690368.66 | 75.028 | 0.3508 | 74.8393 |
| 87 | 11:00:16 | 690356.44 | 74.974 | 0.3510 | 74.8306 |
| 88 | 11:15:24 | 690334.59 | 74.933 | 0.3512 | 74.8227 |
| 89 | 11:30:25 | 690341.00 | 74.876 | 0.3515 | 74.8159 |
| 90 | 11:45:25 | 690306.71 | 74.847 | 0.3518 | 74.8083 |
| 91 | 12:00:26 | 690295.50 | 74.805 | 0.3525 | 74.8019 |

Containment Calculated Values

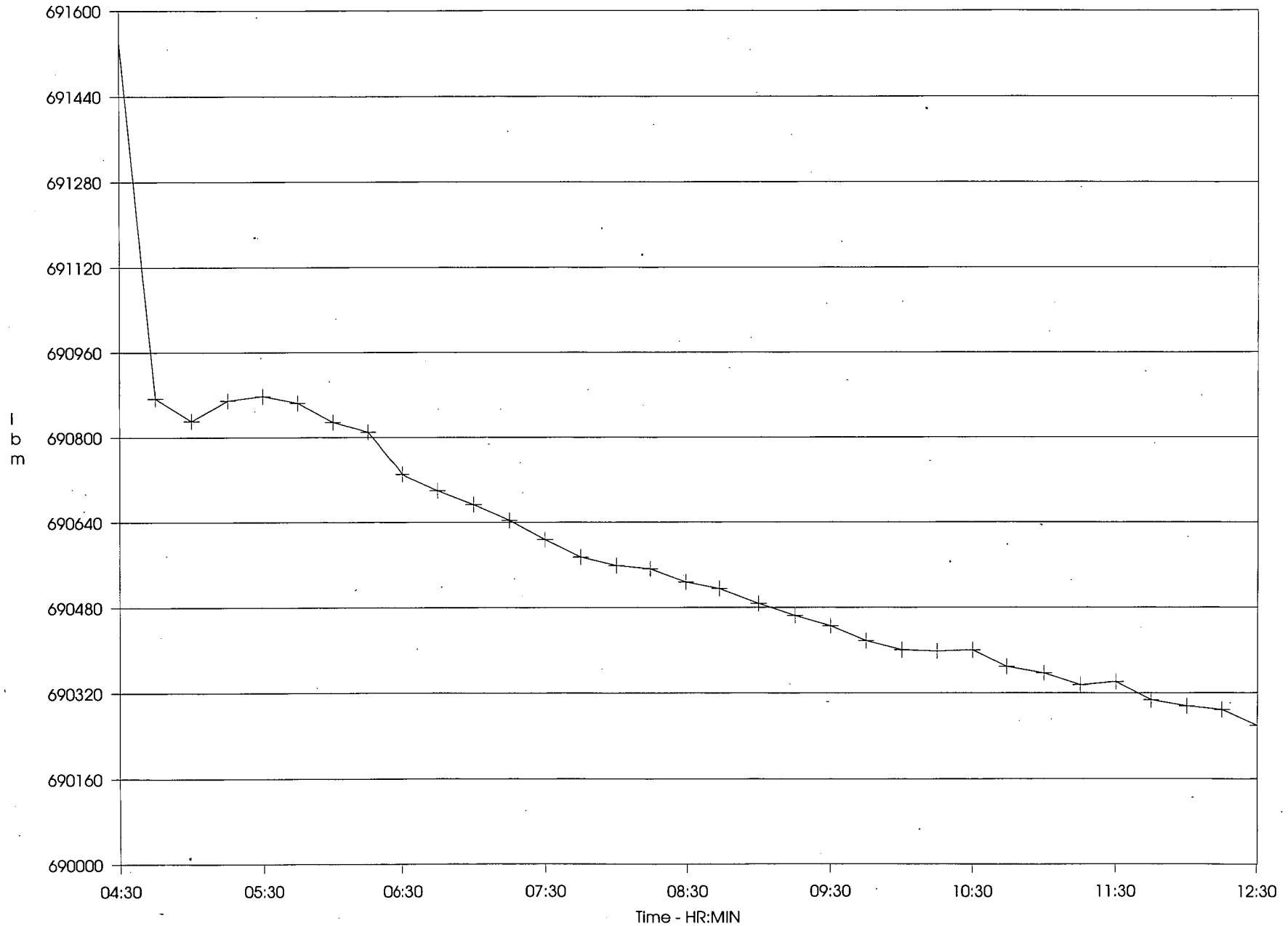
Page 2 of 2

Oconee Nuclear Station
Unit 2 - 6/93

| RDG | TIME | MASS | TEMP | VAPOR PRESS | PRESSURE |
|-----|----------|-----------|--------|-------------|----------|
| 92 | 12:15:26 | 690288.48 | 74.773 | 0.3507 | 74.7950 |
| 93 | 12:30:27 | 690258.87 | 74.744 | 0.3519 | 74.7889 |

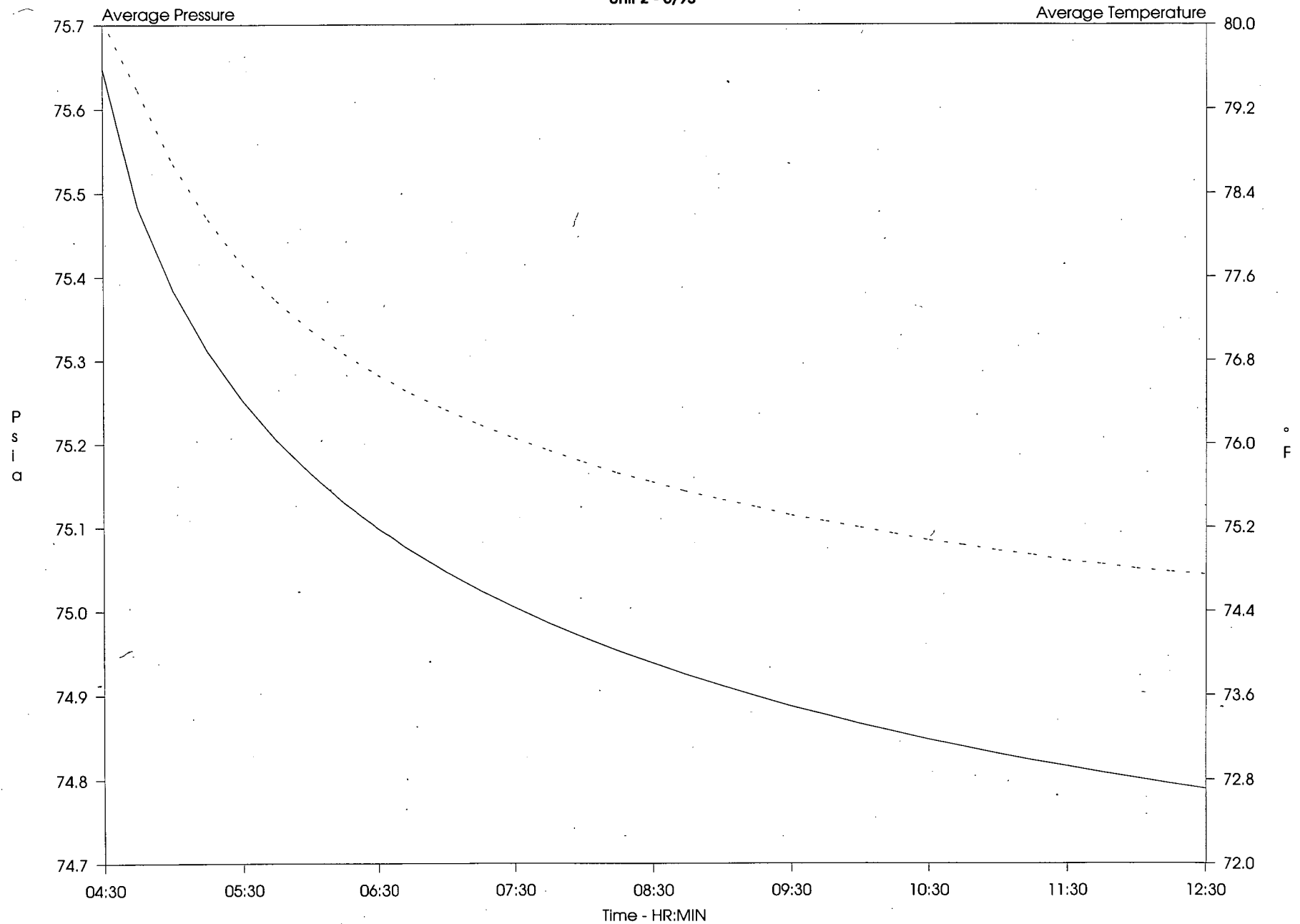
Containment Mass

Oconee Nuclear Station
Unit 2 - 6/93



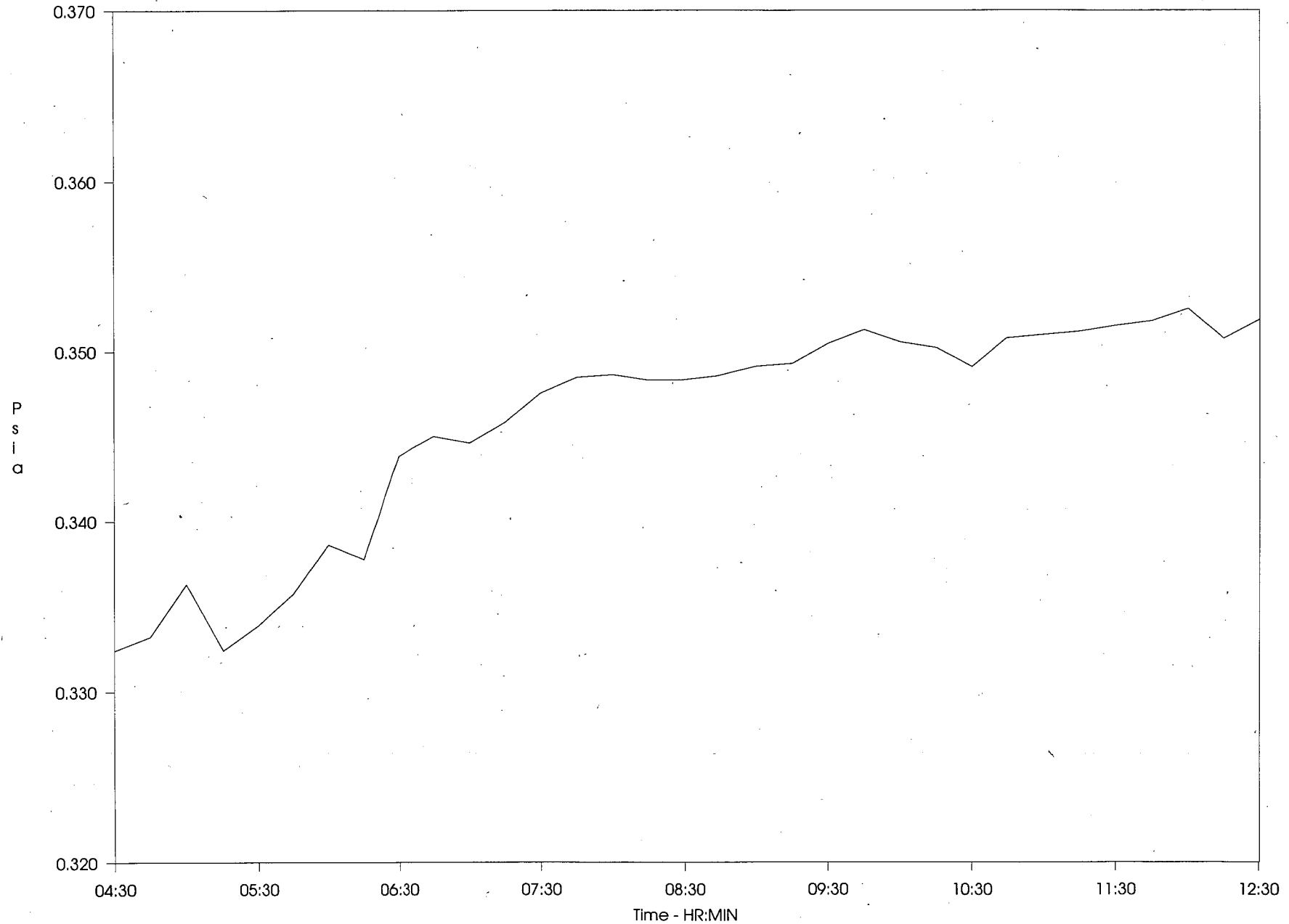
Average Pressure & Average Temperature

Oconee Nuclear Station
Unit 2 - 6/93



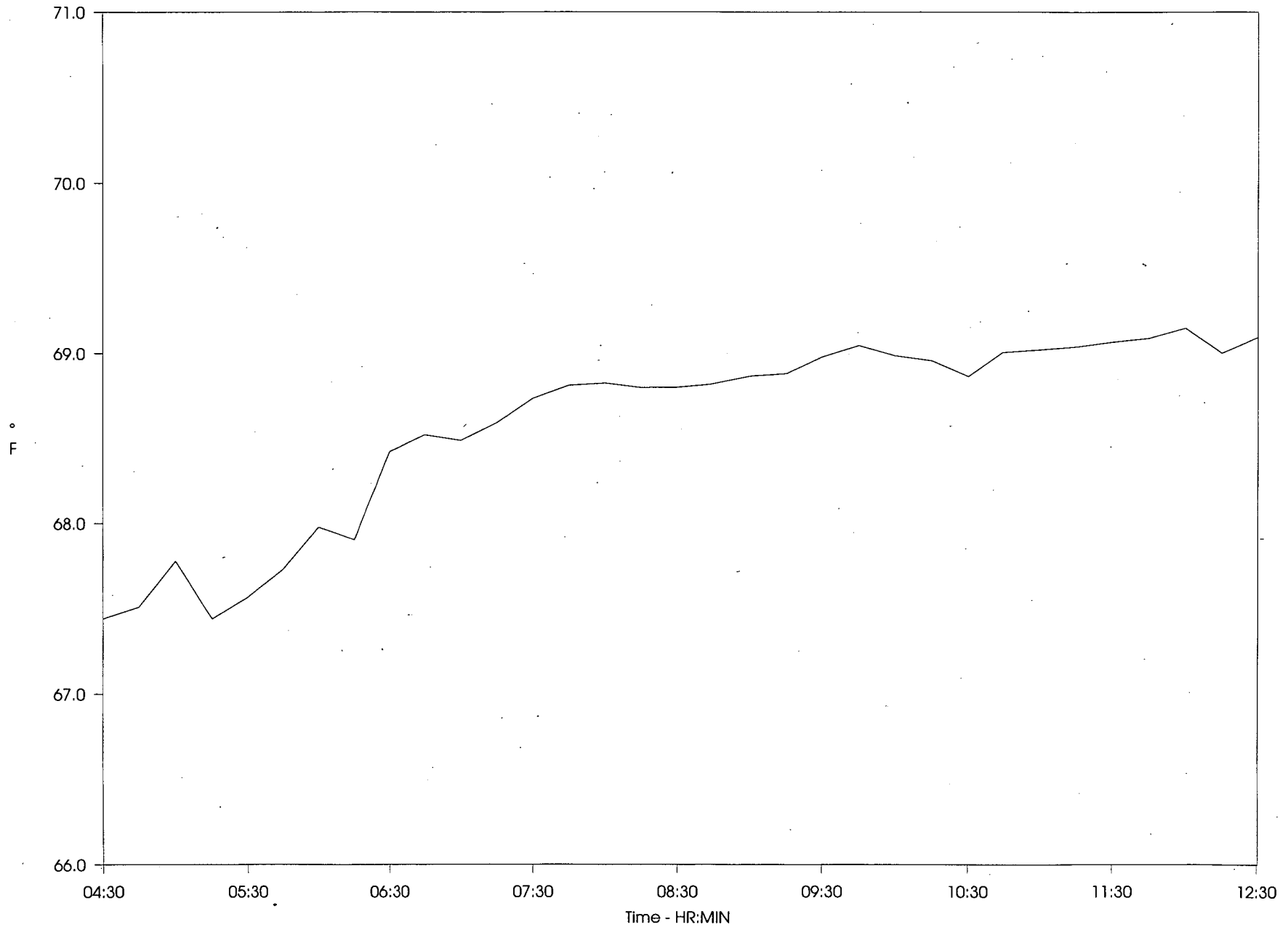
Average Vapor Pressure

Oconee Nuclear Station
Unit 2 - 6/93



Average Dew Point

Oconee Nuclear Station
Unit 2 - 6/93



APPENDIX B

Integrated Leakage Rate Test Data and Graphs Reading No. 93 to 119

Reports:

- BN-TOP-1 Total Time Test Termination Criteria
- Total Time Leak Rate Analysis
- Mass Point Leak Rate Analysis
- Containment Calculated Values by Reading No.

Graphs:

- Total Time Leak at UCL and Calculated Total Time Leak
- Mass Point Leak at UCL and Mass Point Leak
- Containment Mass
- Average Pressure
- Average Vapor Pressure
- Average Temperature

BN-TOP-1 Termination Criteria

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Oconee Nuclear Station
Unit 2 - 6/93

BN-TOP-1 Termination Criteria Evaluation for Reading # 119

1. The Trend Report based on Total Time calculations shall indicate that the magnitude of the calculated leak rate is tending to stabilize at a value less than the maximum allowable leak rate ($<.75L_a$).

Required Value: 0.187500 %/day Actual Value: 0.116868 %/day

(Note: The magnitude of the calculated leak rate may be increasing slightly as it tends to stabilize. In this case the average rate of increase of the calculated leak rate shall be determined from the accumulated data over the last five hours or last twenty data points, whichever provides the most points. Using this average rate, the calculated leak rate can then be linearly extrapolated to the 24th hour data point. If this extrapolated value of the calculated leak rate exceeds 75% of the maximum allowable leak rate (L_a) then the leak rate test is continued.)

Required Value: 0.187500 %/day Actual Value: 0.164212 %/day

2. The end of test upper 95% confidence limit for the calculated leak rate based on Total Time calculations shall be less than the maximum allowable leak rate ($<.75L_a$).

Required Value: 0.187500 %/day Actual Value: 0.150580 %/day

3. The mean of the measured leak rates based on Total Time calculations over the last five hours of test or last twenty data points, whichever provides the most data, shall be less than the maximum allowable leak rate ($<.75L_a$).

Required Value: 0.187500 %/day Actual Value: 0.116666 %/day

4. Data shall be recorded at approximately equal intervals and in no case at intervals greater than one hour.

Required Interval: ≤ 1 hr Maximum Actual Interval: 0.25 hr

5. At least twenty (20) data points shall be provided for proper statistical analysis.

Required # Data Points: ≥ 20 Actual Data Points: 27

6. In no case shall the minimum test duration be less than six (6) hours.

Required Minimum Duration: 6 hr Actual Duration: 6.5 hr

Total Time Leak Rate Analysis

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Oconee Nuclear Station
Unit 2 - 6/93

| RDG | TIME (MINUTES) | MEASURED LEAK (WT %/DAY) | CALCULATED LEAK (WT %/DAY) | UCL LEAK (WT %/DAY) |
|-----|----------------|-----------------------------|-------------------------------|---------------------|
| 93 | 0.00 | - | - | - |
| 94 | 15.00 | 0.148262 | - | - |
| 95 | 30.02 | 0.081029 | 0.081029 | - |
| 96 | 45.02 | 0.123815 | 0.105471 | 0.540510 |
| 97 | 60.03 | 0.075493 | 0.080813 | 0.243982 |
| 98 | 75.03 | 0.113512 | 0.093410 | 0.218431 |
| 99 | 90.05 | 0.095518 | 0.090938 | 0.185718 |
| 100 | 105.05 | 0.112677 | 0.097746 | 0.180241 |
| 101 | 120.07 | 0.145963 | 0.116001 | 0.200624 |
| 102 | 135.07 | 0.121148 | 0.118650 | 0.193531 |
| 103 | 150.08 | 0.113336 | 0.117732 | 0.185504 |
| 104 | 165.08 | 0.112782 | 0.116862 | 0.179093 |
| 105 | 180.10 | 0.125524 | 0.119955 | 0.177858 |
| 106 | 195.10 | 0.117815 | 0.120140 | 0.174304 |
| 107 | 210.12 | 0.123005 | 0.121591 | 0.172596 |
| 108 | 225.12 | 0.115785 | 0.120957 | 0.169416 |
| 109 | 239.42 | 0.111483 | 0.119436 | 0.165868 |
| 110 | 254.40 | 0.122345 | 0.120545 | 0.164930 |
| 111 | 269.42 | 0.116214 | 0.120191 | 0.162828 |
| 112 | 284.42 | 0.114773 | 0.119602 | 0.160716 |
| 113 | 299.43 | 0.114190 | 0.118991 | 0.158736 |
| 114 | 314.43 | 0.113136 | 0.118279 | 0.156802 |
| 115 | 329.45 | 0.122345 | 0.119232 | 0.156575 |
| 116 | 344.45 | 0.113930 | 0.118669 | 0.154984 |
| 117 | 359.47 | 0.112490 | 0.117953 | 0.153352 |
| 118 | 374.47 | 0.111228 | 0.117137 | 0.151711 |
| 119 | 389.48 | 0.114292 | 0.116868 | 0.150580 |

Mass Point Leak Rate Analysis

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Oconee Nuclear Station
Unit 2 - 6/93

| RDG | TIME (MINUTES) | NORM. MASS | MEASURED LEAK (WT %/DAY) | UCL LEAK (WT %/DAY) |
|-----|----------------|------------|-----------------------------|---------------------|
| 93 | 0.00 | 1.000000 | - | - |
| 94 | 15.00 | 0.999985 | 0.148262 | - |
| 95 | 30.02 | 0.999983 | 0.081017 | 0.412941 |
| 96 | 45.02 | 0.999961 | 0.112806 | 0.187126 |
| 97 | 60.03 | 0.999969 | 0.082708 | 0.136114 |
| 98 | 75.03 | 0.999941 | 0.100233 | 0.138542 |
| 99 | 90.05 | 0.999940 | 0.096349 | 0.122348 |
| 100 | 105.05 | 0.999918 | 0.104670 | 0.125561 |
| 101 | 120.07 | 0.999878 | 0.126841 | 0.155771 |
| 102 | 135.07 | 0.999886 | 0.126988 | 0.149640 |
| 103 | 150.08 | 0.999882 | 0.123252 | 0.141908 |
| 104 | 165.08 | 0.999871 | 0.120481 | 0.136101 |
| 105 | 180.10 | 0.999843 | 0.123593 | 0.137065 |
| 106 | 195.10 | 0.999840 | 0.122741 | 0.134224 |
| 107 | 210.12 | 0.999821 | 0.123880 | 0.133830 |
| 108 | 225.12 | 0.999819 | 0.122235 | 0.131049 |
| 109 | 239.42 | 0.999815 | 0.119649 | 0.127828 |
| 110 | 254.40 | 0.999784 | 0.120909 | 0.128262 |
| 111 | 269.42 | 0.999783 | 0.120099 | 0.126706 |
| 112 | 284.42 | 0.999773 | 0.119062 | 0.125080 |
| 113 | 299.43 | 0.999763 | 0.118086 | 0.123602 |
| 114 | 314.43 | 0.999753 | 0.117044 | 0.122152 |
| 115 | 329.45 | 0.999720 | 0.118410 | 0.123257 |
| 116 | 344.45 | 0.999727 | 0.117566 | 0.122077 |
| 117 | 359.47 | 0.999719 | 0.116556 | 0.120816 |
| 118 | 374.47 | 0.999711 | 0.115456 | 0.119529 |
| 119 | 389.48 | 0.999691 | 0.115183 | 0.118957 |

Containment Calculated Values

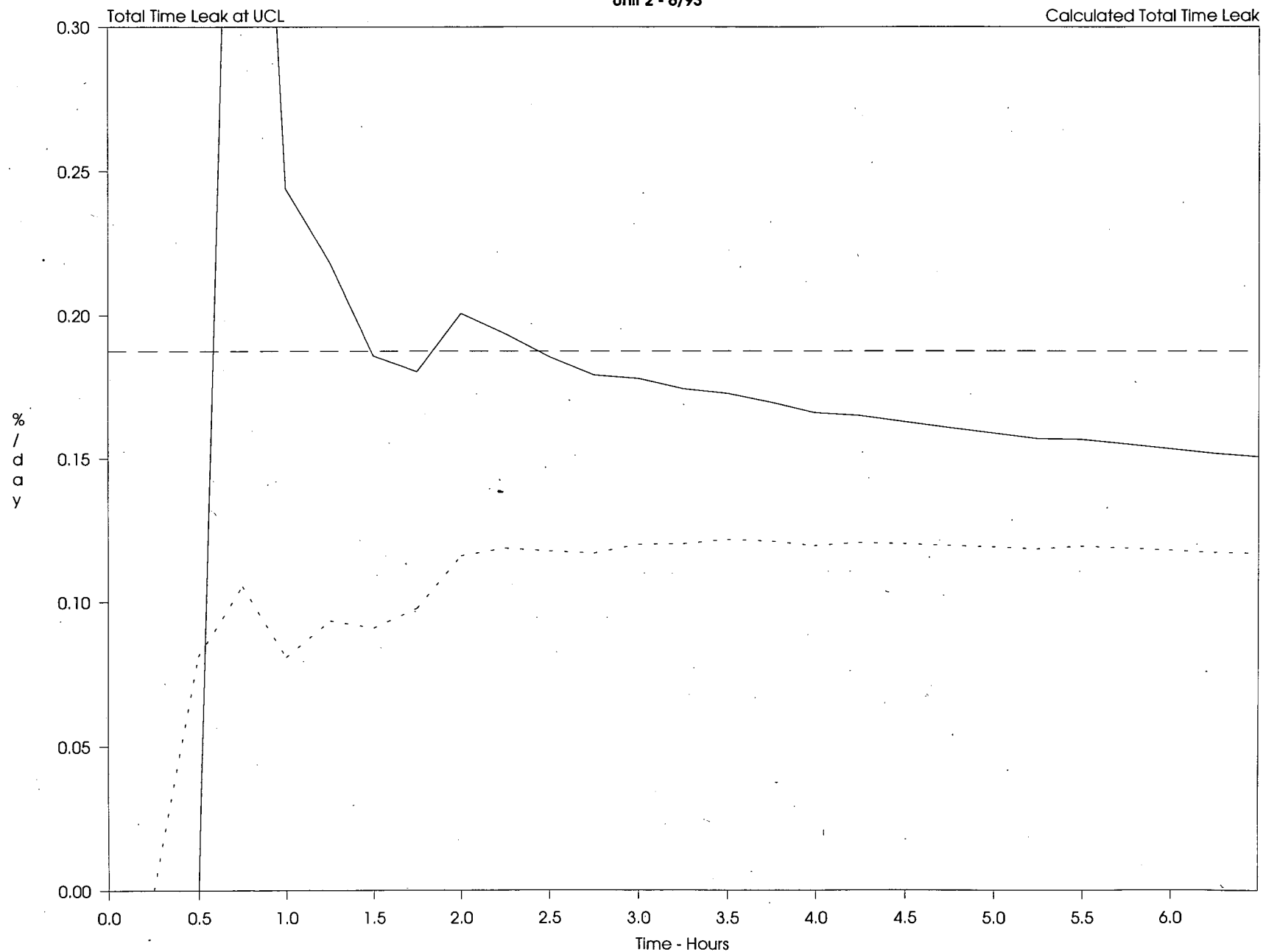
Page 1 of 1

Oconee Nuclear Station
Unit 2 - 6/93

| RDG | TIME | MASS | TEMP | VAPOR PRESS | PRESSURE |
|-----|----------|-----------|--------|-------------|----------|
| 93 | 12:30:27 | 690258.87 | 74.744 | 0.3519 | 74.7889 |
| 94 | 12:45:27 | 690248.21 | 74.708 | 0.3522 | 74.7831 |
| 95 | 13:00:28 | 690247.21 | 74.671 | 0.3518 | 74.7773 |
| 96 | 13:15:28 | 690232.15 | 74.646 | 0.3520 | 74.7726 |
| 97 | 13:30:29 | 690237.14 | 74.613 | 0.3506 | 74.7671 |
| 98 | 13:45:29 | 690218.04 | 74.587 | 0.3511 | 74.7619 |
| 99 | 14:00:30 | 690217.64 | 74.559 | 0.3510 | 74.7578 |
| 100 | 14:15:30 | 690202.13 | 74.536 | 0.3513 | 74.7532 |
| 101 | 14:30:31 | 690174.86 | 74.521 | 0.3516 | 74.7485 |
| 102 | 14:45:31 | 690180.43 | 74.490 | 0.3514 | 74.7445 |
| 103 | 15:00:32 | 690177.33 | 74.464 | 0.3511 | 74.7403 |
| 104 | 15:15:32 | 690169.62 | 74.450 | 0.3504 | 74.7369 |
| 105 | 15:30:33 | 690150.50 | 74.434 | 0.3506 | 74.7328 |
| 106 | 15:45:33 | 690148.69 | 74.414 | 0.3502 | 74.7294 |
| 107 | 16:00:34 | 690134.98 | 74.394 | 0.3506 | 74.7255 |
| 108 | 16:15:34 | 690133.92 | 74.377 | 0.3504 | 74.7229 |
| 109 | 16:29:52 | 690130.92 | 74.359 | 0.3500 | 74.7196 |
| 110 | 16:44:51 | 690109.67 | 74.351 | 0.3505 | 74.7167 |
| 111 | 16:59:52 | 690108.78 | 74.327 | 0.3508 | 74.7136 |
| 112 | 17:14:52 | 690102.39 | 74.318 | 0.3501 | 74.7108 |
| 113 | 17:29:53 | 690094.97 | 74.308 | 0.3498 | 74.7084 |
| 114 | 17:44:53 | 690088.35 | 74.294 | 0.3498 | 74.7058 |
| 115 | 17:59:54 | 690065.66 | 74.278 | 0.3514 | 74.7027 |
| 116 | 18:14:54 | 690070.76 | 74.268 | 0.3505 | 74.7010 |
| 117 | 18:29:55 | 690065.04 | 74.259 | 0.3495 | 74.6980 |
| 118 | 18:44:55 | 690059.21 | 74.247 | 0.3500 | 74.6963 |
| 119 | 18:59:56 | 690045.49 | 74.239 | 0.3504 | 74.6941 |

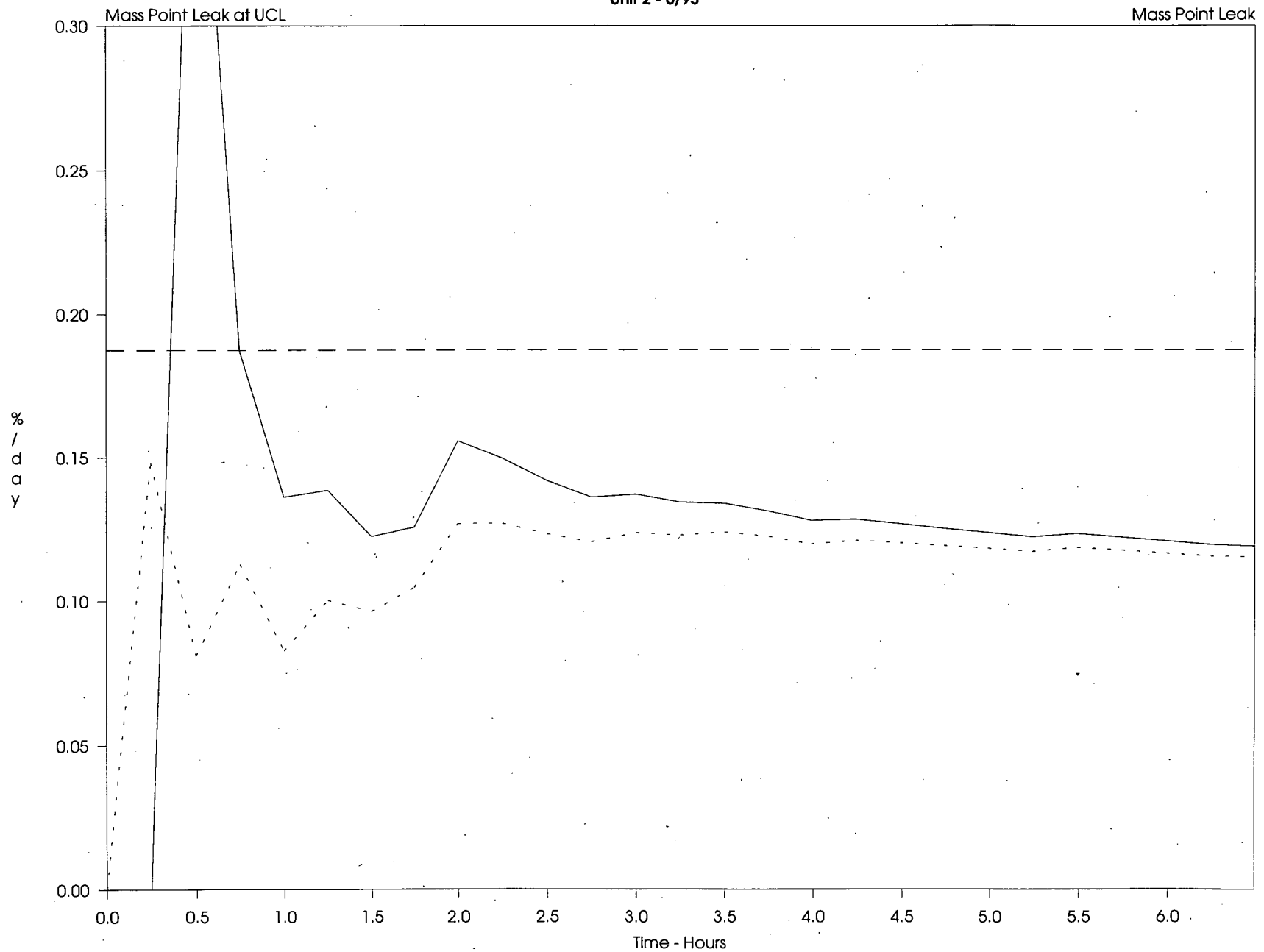
Total Time Leak at UCL & Calculated Total Time Leak

Oconee Nuclear Station
Unit 2 - 6/93



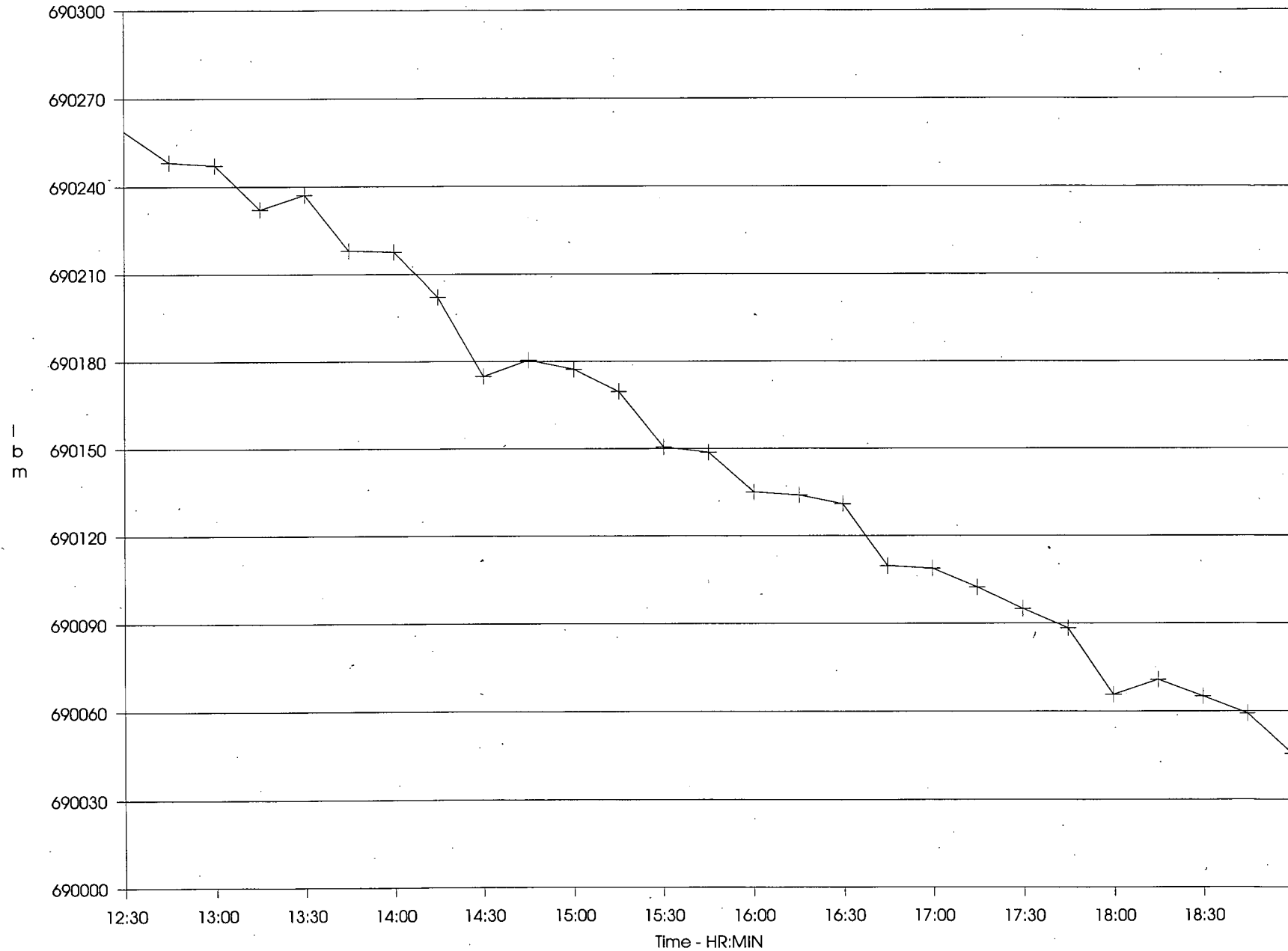
Mass Point Leak at UCL & Mass Point Leak

Oconee Nuclear Station
Unit 2 - 6/93



Containment Mass

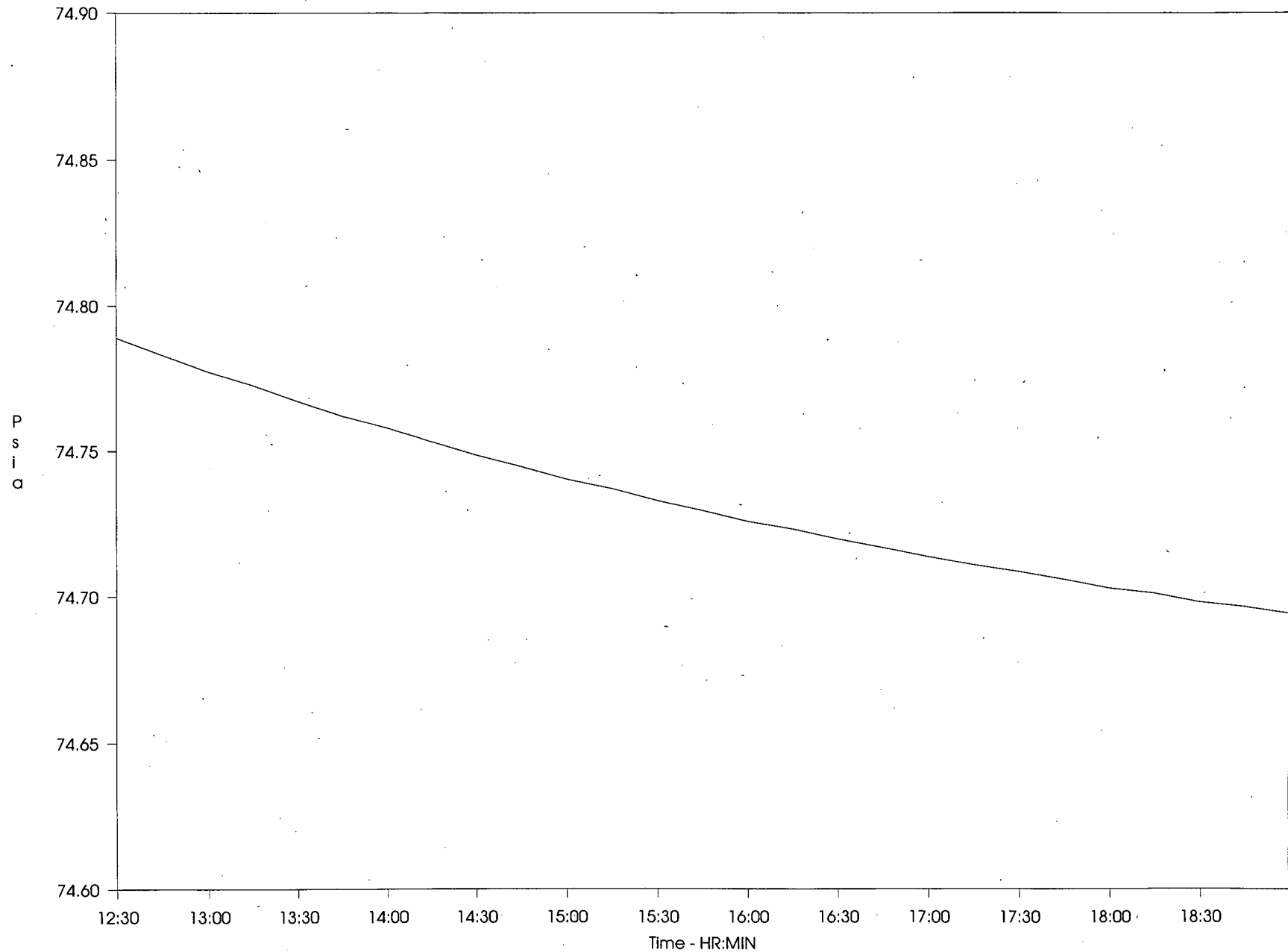
Oconee Nuclear Station
Unit 2 - 6/93



Average Pressure

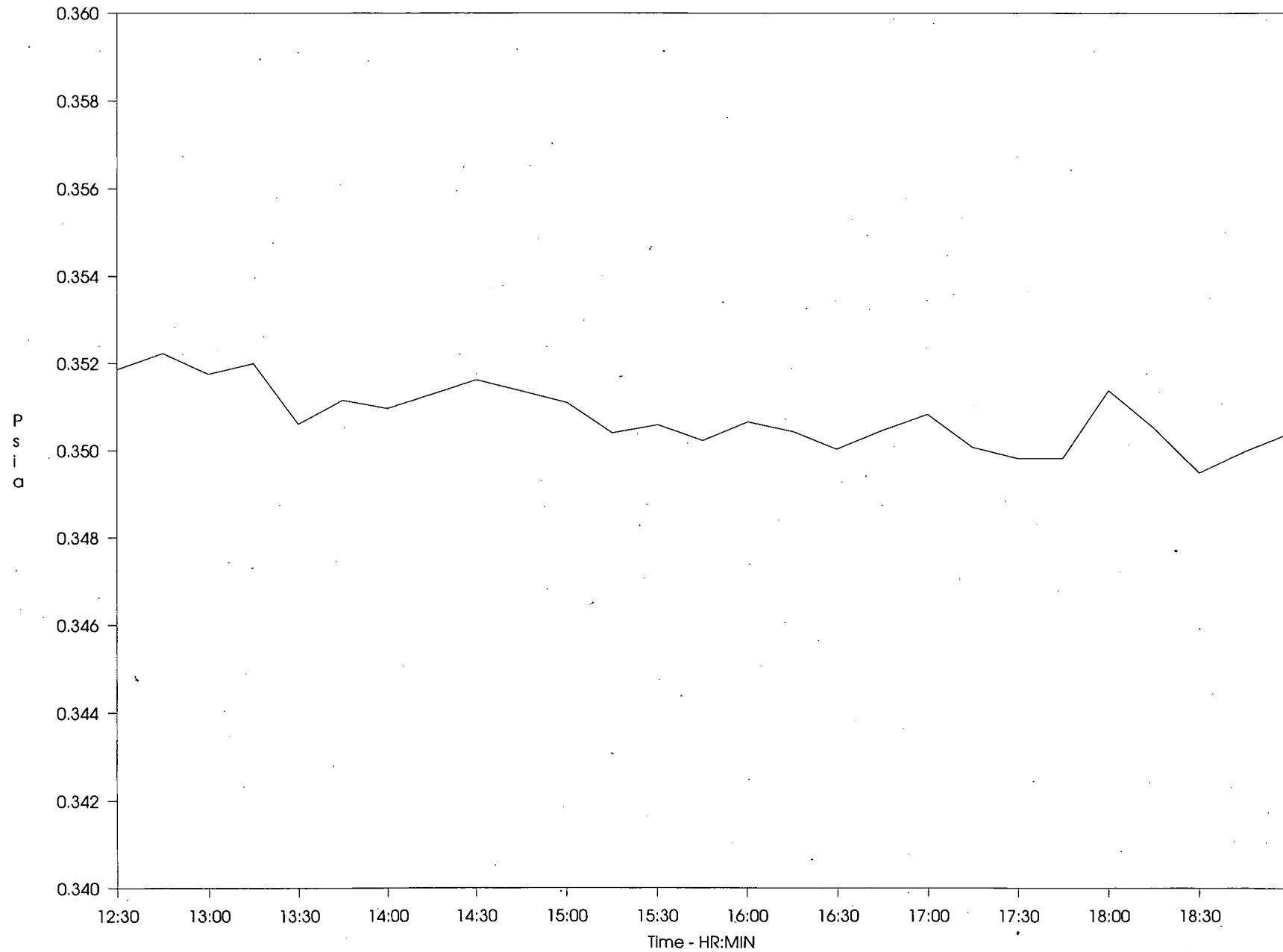
Oconee Nuclear Station

Unit 2 - 6/93



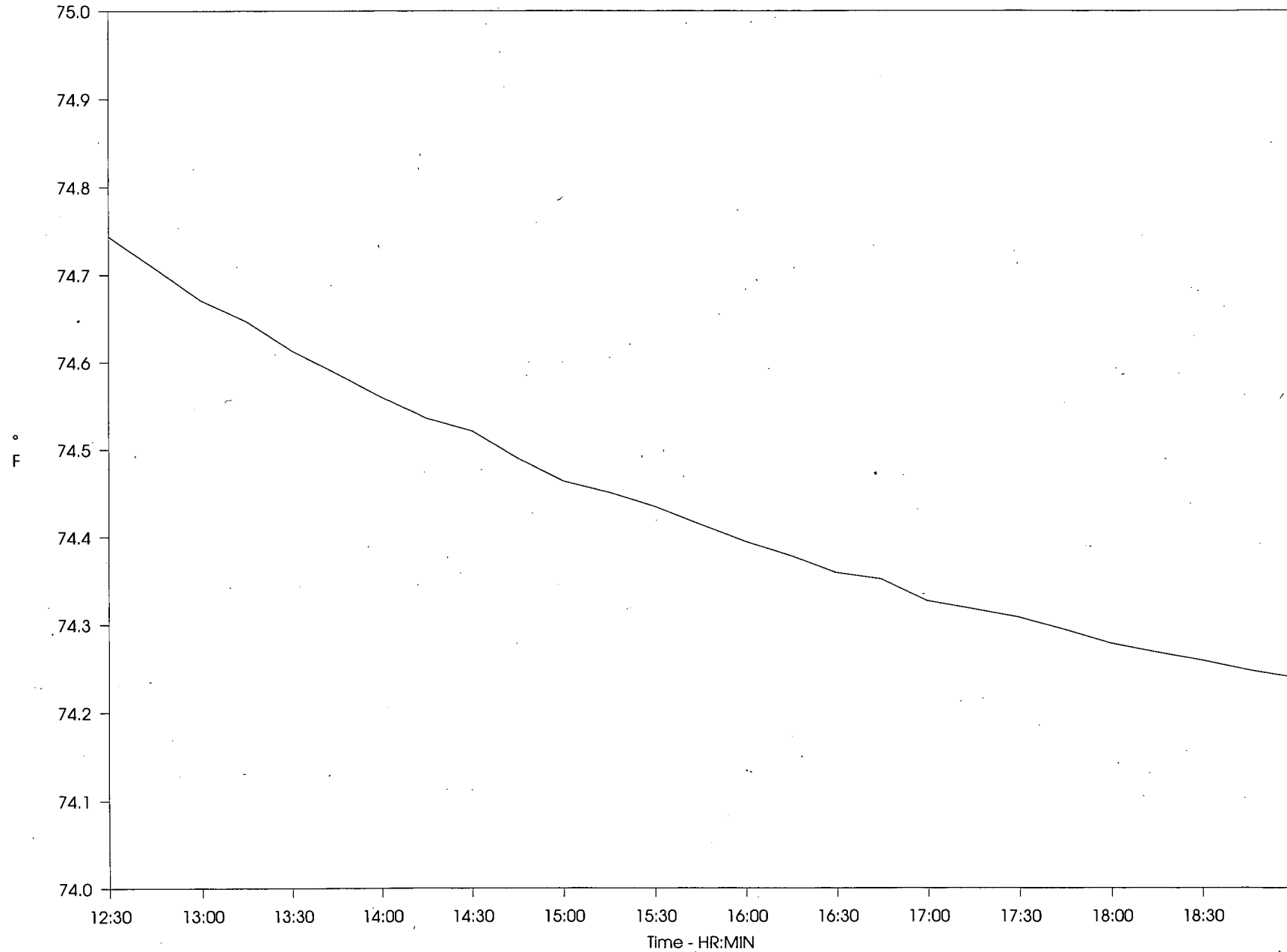
Average Vapor Pressure

Oconee Nuclear Station
Unit 2 - 6/93



Average Temperature

Oconee Nuclear Station
Unit 2 - 6/93



APPENDIX C

Verification Controlled Leakage Rate Test Data and Graphs Reading No. 126 to 146

Reports:

- Total Time Leak Rate Analysis
- Mass Point Leak Rate Analysis
- Containment Calculated Values by Reading No.

Graphs:

- Calculated Total Time Leak & Measured Total Time Leak
- Mass Point Leak
- Containment Mass
- Average Pressure
- Average Vapor Pressure
- Average Temperature

Total Time Leak Rate Analysis

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Oconee Nuclear Station
Unit 2 - 6/93

| RDG | TIME (MINUTES) | MEASURED LEAK (WT %/DAY) | CALCULATED LEAK (WT %/DAY) | UCL LEAK (WT %/DAY) |
|-----|----------------|-----------------------------|-------------------------------|---------------------|
| 126 | 0.00 | - | - | - |
| 127 | 9.05 | 0.542511 | - | - |
| 128 | 19.85 | 0.460295 | 0.460295 | - |
| 129 | 30.17 | 0.444960 | 0.433941 | 0.689055 |
| 130 | 40.30 | 0.393273 | 0.391303 | 0.485613 |
| 131 | 50.30 | 0.298897 | 0.318433 | 0.408888 |
| 132 | 60.32 | 0.382470 | 0.325527 | 0.479195 |
| 133 | 70.32 | 0.377985 | 0.329337 | 0.484606 |
| 134 | 80.32 | 0.352976 | 0.322597 | 0.463828 |
| 135 | 90.33 | 0.356536 | 0.320373 | 0.454087 |
| 136 | 100.33 | 0.346931 | 0.316299 | 0.442141 |
| 137 | 110.33 | 0.341880 | 0.312379 | 0.431726 |
| 138 | 120.35 | 0.319572 | 0.303430 | 0.415088 |
| 139 | 130.35 | 0.346866 | 0.304586 | 0.415370 |
| 140 | 140.35 | 0.326337 | 0.300593 | 0.406992 |
| 141 | 150.37 | 0.332586 | 0.299267 | 0.403203 |
| 142 | 160.37 | 0.336962 | 0.299496 | 0.402026 |
| 143 | 170.37 | 0.335668 | 0.299642 | 0.400654 |
| 144 | 180.38 | 0.338394 | 0.300516 | 0.400457 |
| 145 | 190.38 | 0.336573 | 0.301076 | 0.399690 |
| 146 | 200.38 | 0.344178 | 0.303111 | 0.401298 |

Mass Point Leak Rate Analysis

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Oconee Nuclear Station
Unit 2 - 6/93

| RDG | TIME (MINUTES) | NORM. MASS | MEASURED LEAK (WT %/DAY) | UCL LEAK (WT %/DAY) |
|-----|----------------|------------|-----------------------------|---------------------|
| 126 | 0.00 | 1.000000 | - | - |
| 127 | 9.05 | 0.999966 | 0.542511 | - |
| 128 | 19.85 | 0.999937 | 0.458099 | 0.827450 |
| 129 | 30.17 | 0.999907 | 0.438149 | 0.502783 |
| 130 | 40.30 | 0.999890 | 0.394628 | 0.460453 |
| 131 | 50.30 | 0.999896 | 0.315532 | 0.420726 |
| 132 | 60.32 | 0.999840 | 0.338518 | 0.413923 |
| 133 | 70.32 | 0.999815 | 0.349166 | 0.404787 |
| 134 | 80.32 | 0.999803 | 0.342856 | 0.385505 |
| 135 | 90.33 | 0.999776 | 0.341906 | 0.375360 |
| 136 | 100.33 | 0.999758 | 0.337712 | 0.365035 |
| 137 | 110.33 | 0.999738 | 0.333513 | 0.356441 |
| 138 | 120.35 | 0.999733 | 0.322468 | 0.344858 |
| 139 | 130.35 | 0.999686 | 0.325511 | 0.344810 |
| 140 | 140.35 | 0.999682 | 0.320873 | 0.338156 |
| 141 | 150.37 | 0.999653 | 0.319943 | 0.335011 |
| 142 | 160.37 | 0.999625 | 0.320918 | 0.334186 |
| 143 | 170.37 | 0.999603 | 0.321498 | 0.333258 |
| 144 | 180.38 | 0.999576 | 0.322910 | 0.333489 |
| 145 | 190.38 | 0.999555 | 0.323666 | 0.333187 |
| 146 | 200.38 | 0.999521 | 0.326364 | 0.335367 |

Containment Calculated Values

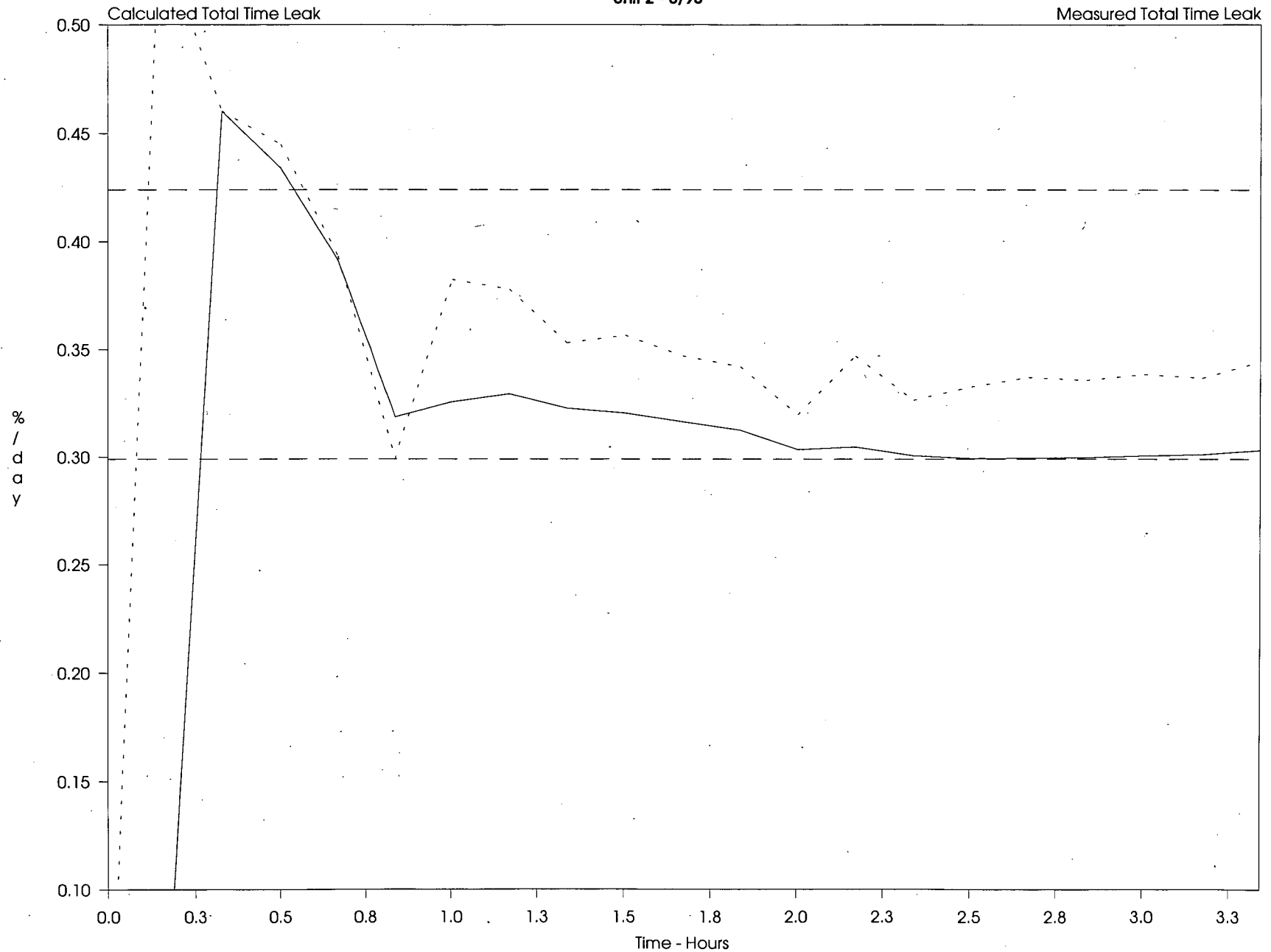
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Oconee Nuclear Station
Unit 2 - 6/93

| RDG | TIME | MASS | TEMP | VAPOR PRESS | PRESSURE |
|-----|----------|-----------|--------|-------------|----------|
| 126 | 20:05:30 | 689941.96 | 74.194 | 0.3496 | 74.6759 |
| 127 | 20:14:33 | 689918.43 | 74.189 | 0.3509 | 74.6740 |
| 128 | 20:25:21 | 689898.18 | 74.181 | 0.3515 | 74.6713 |
| 129 | 20:35:40 | 689877.64 | 74.185 | 0.3507 | 74.6688 |
| 130 | 20:45:48 | 689866.02 | 74.174 | 0.3501 | 74.6653 |
| 131 | 20:55:48 | 689869.92 | 74.164 | 0.3492 | 74.6635 |
| 132 | 21:05:49 | 689831.42 | 74.163 | 0.3505 | 74.6606 |
| 133 | 21:15:49 | 689814.61 | 74.163 | 0.3502 | 74.6585 |
| 134 | 21:25:49 | 689806.12 | 74.153 | 0.3503 | 74.6563 |
| 135 | 21:35:50 | 689787.64 | 74.153 | 0.3495 | 74.6535 |
| 136 | 21:45:50 | 689775.18 | 74.150 | 0.3494 | 74.6516 |
| 137 | 21:55:50 | 689761.23 | 74.140 | 0.3498 | 74.6491 |
| 138 | 22:05:51 | 689757.68 | 74.132 | 0.3496 | 74.6473 |
| 139 | 22:15:51 | 689725.32 | 74.144 | 0.3491 | 74.6451 |
| 140 | 22:25:51 | 689722.51 | 74.129 | 0.3491 | 74.6427 |
| 141 | 22:35:52 | 689702.35 | 74.123 | 0.3502 | 74.6407 |
| 142 | 22:45:52 | 689683.05 | 74.123 | 0.3504 | 74.6388 |
| 143 | 22:55:52 | 689667.96 | 74.125 | 0.3494 | 74.6366 |
| 144 | 23:05:53 | 689649.49 | 74.123 | 0.3497 | 74.6345 |
| 145 | 23:15:53 | 689634.94 | 74.116 | 0.3498 | 74.6321 |
| 146 | 23:25:53 | 689611.51 | 74.115 | 0.3502 | 74.6299 |

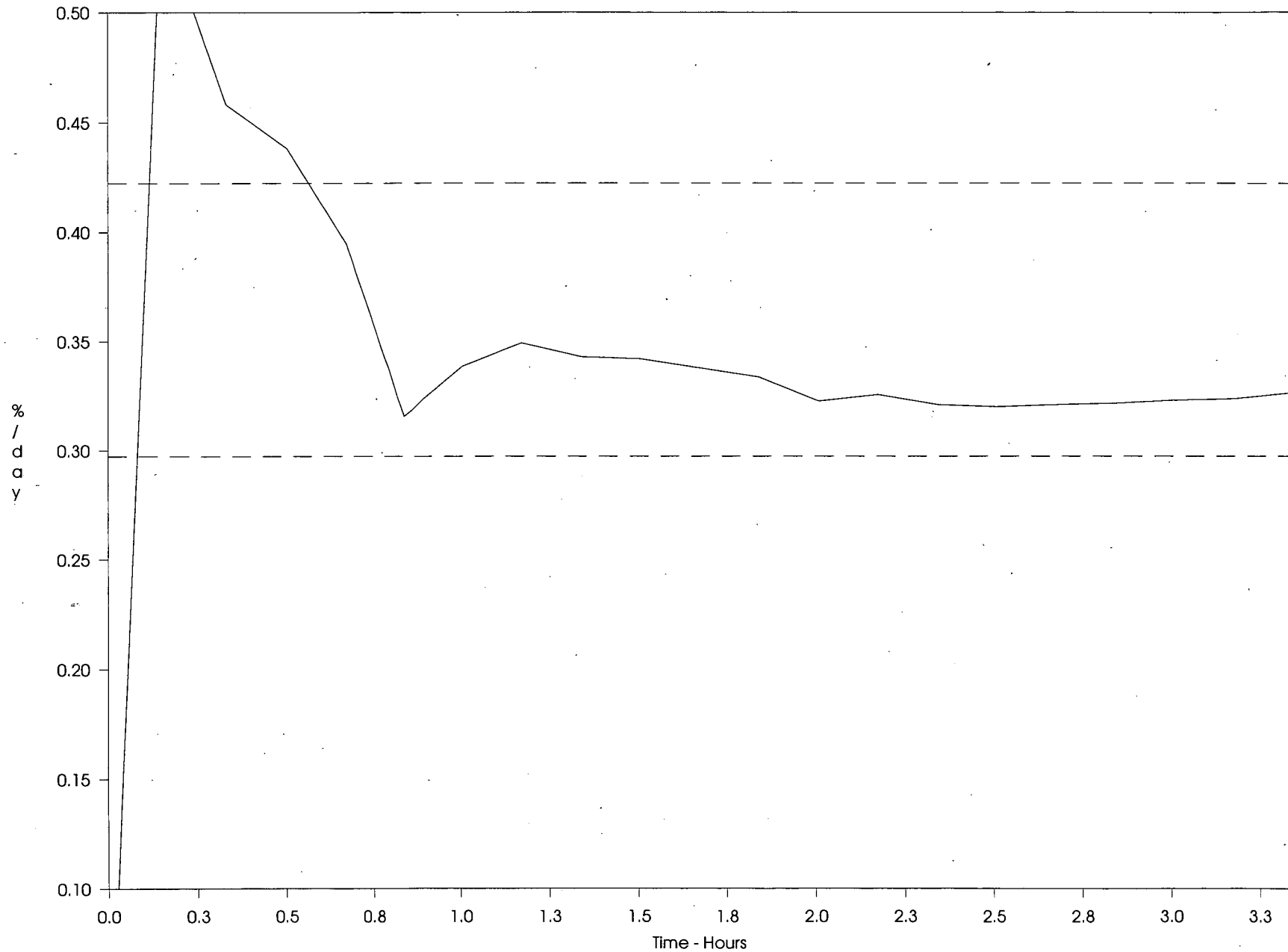
Calculated Total Time Leak & Measured Total Time Leak

Oconee Nuclear Station
Unit 2 - 6/93



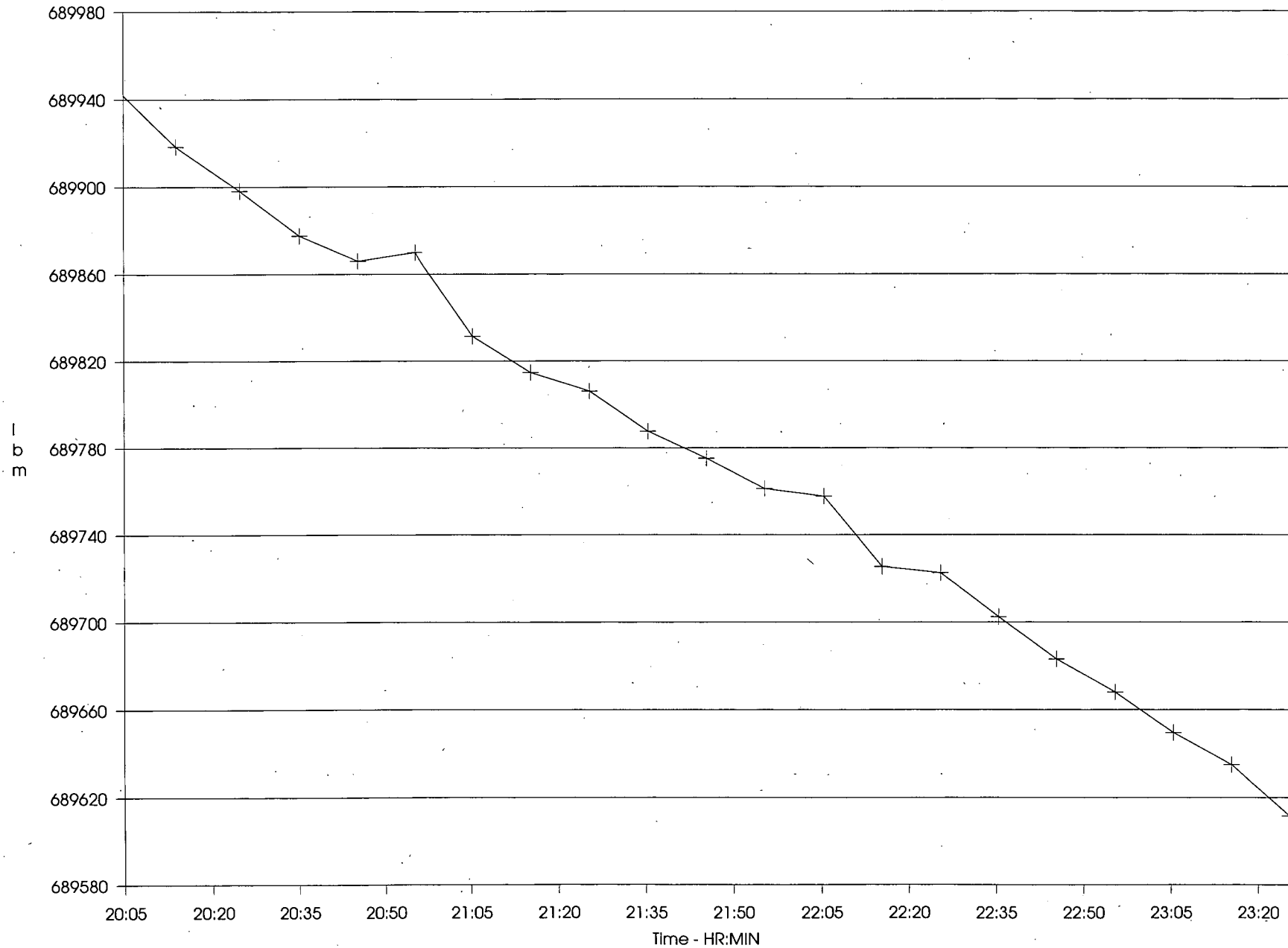
Mass Point Leak

Oconee Nuclear Station
Unit 2 - 6/93



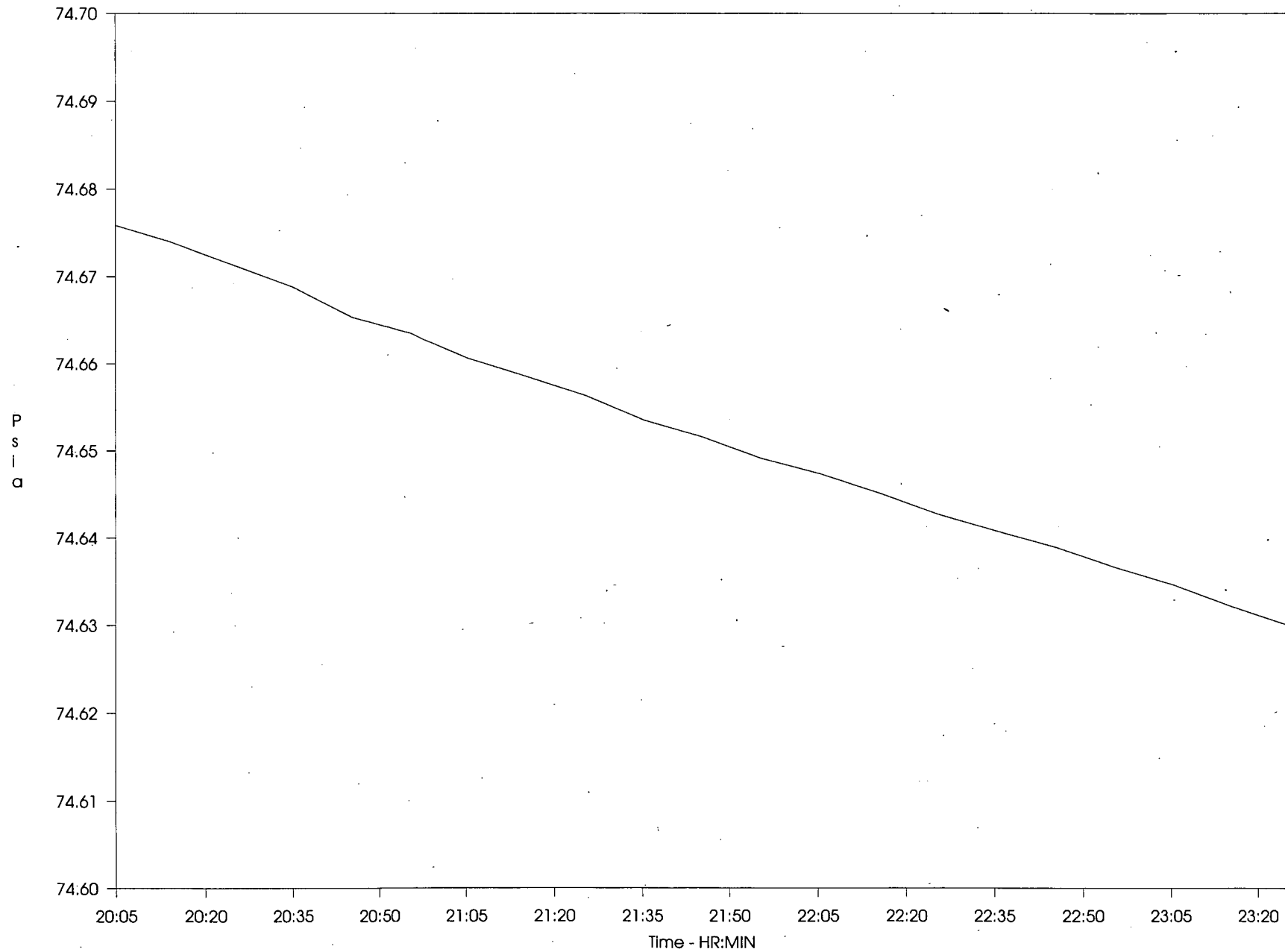
Containment Mass

Oconee Nuclear Station
Unit 2 - 6/93



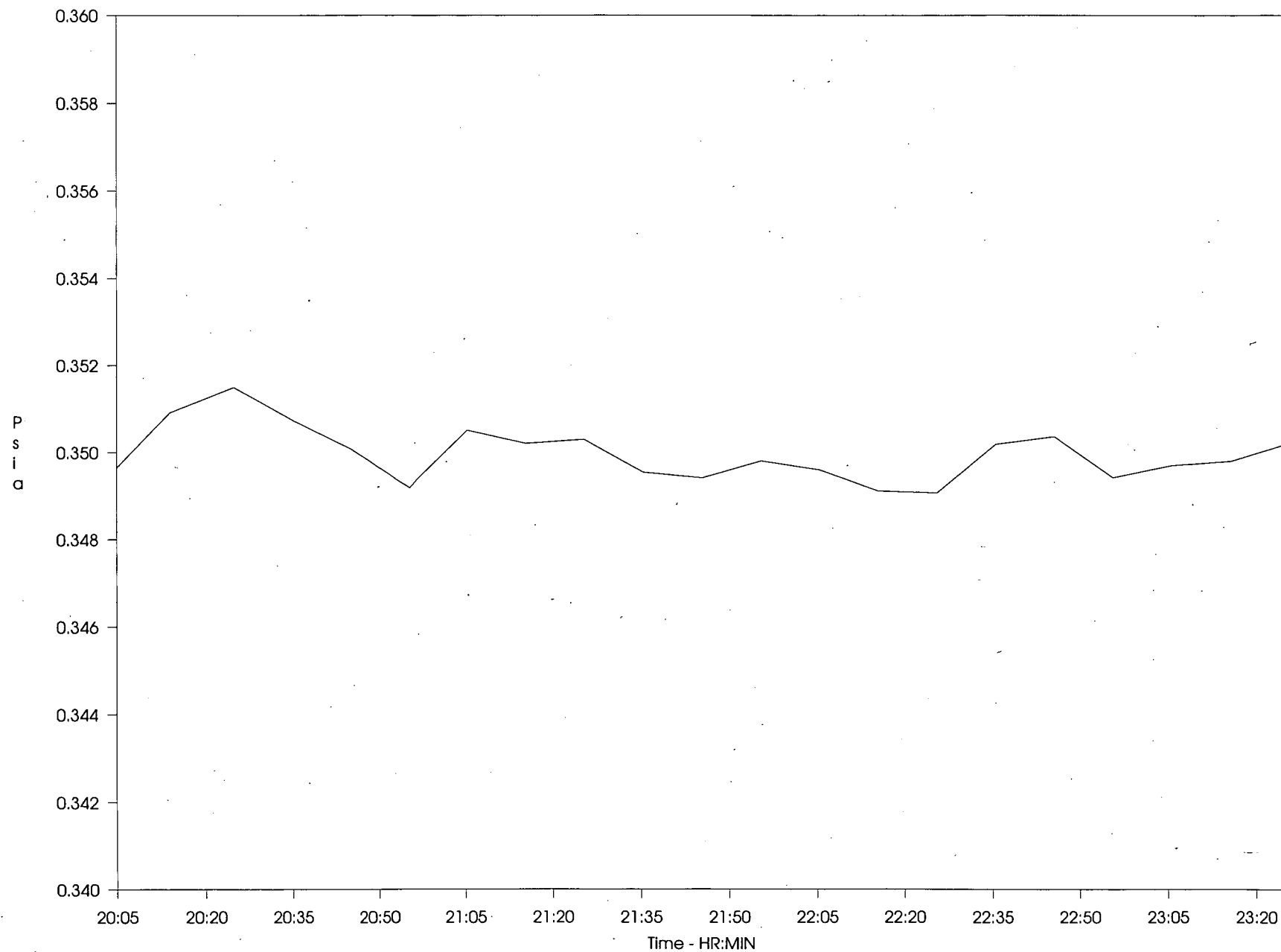
Average Pressure

Oconee Nuclear Station
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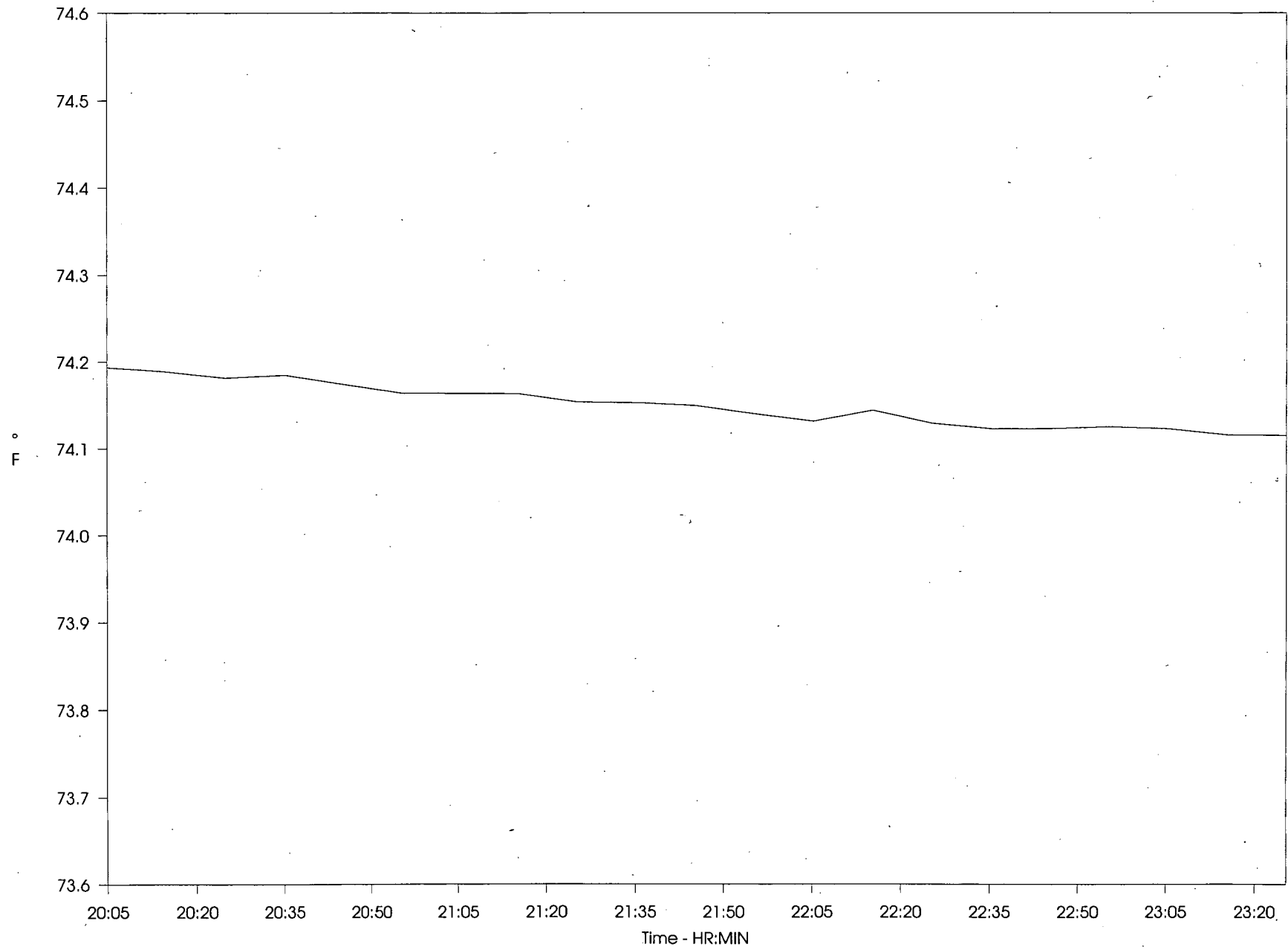
Average Vapor Pressure

Oconee Nuclear Station
Unit 2 - 6/93



Average Temperature

Oconee Nuclear Station
Unit 2 - 6/93



APPENDIX D

Miscellaneous Information

Graphs:

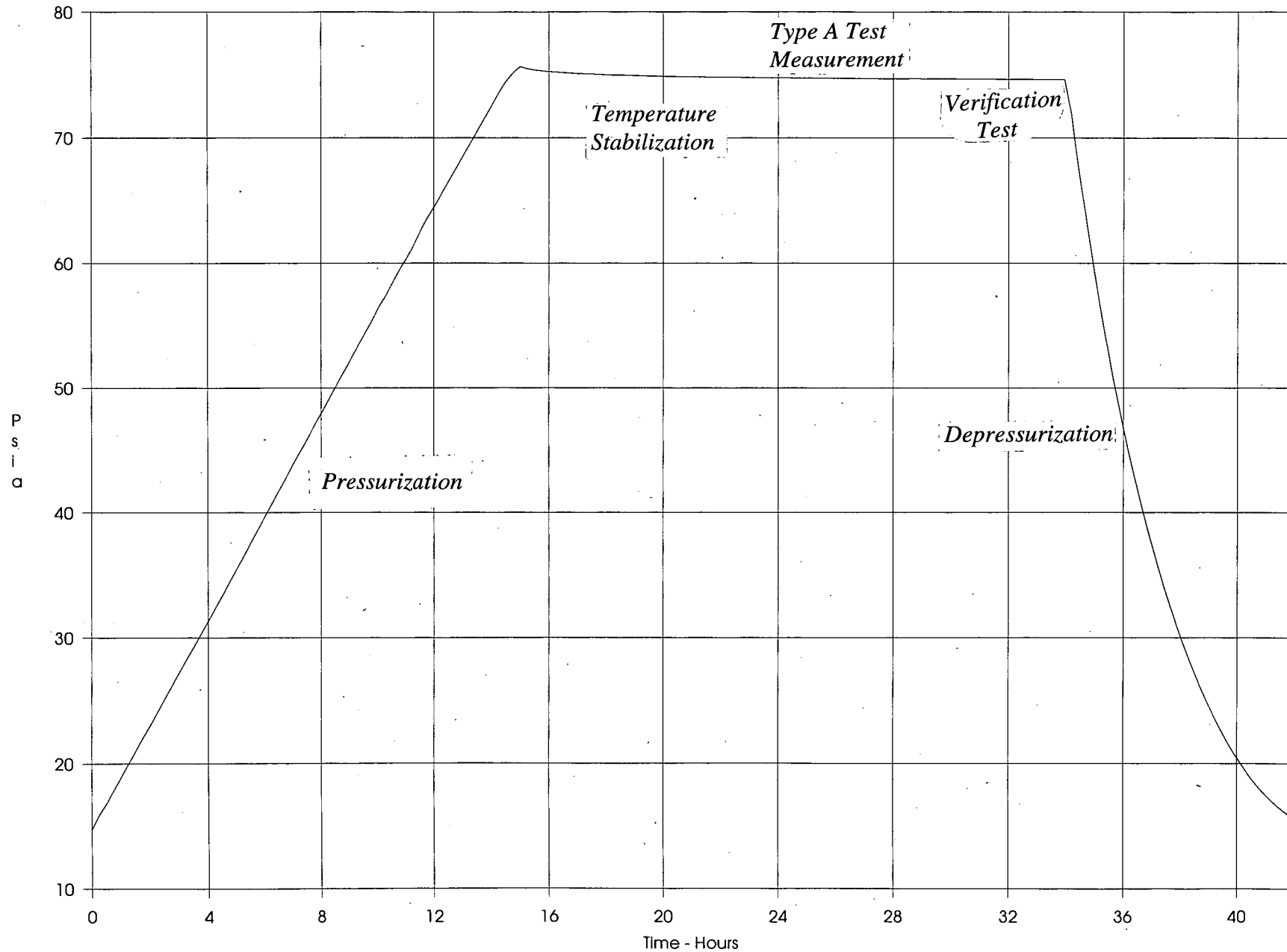
- Average Pressure (Chronological Time Sequence)

Reports:

- Configuration Data
- Sensor Information

Average Pressure

Oconee Nuclear Station
Unit 2 - 6/93



Configuration Data

Page 1 of 1

Oconee Nuclear Station
Unit 2 - 6/93

Station Name - Oconee Nuclear Station
Unit Name - Unit 2 - 6/93
Containment Volume = 1836000.00 cubic feet
Imposed Leak = 0.24462 %/day
La (Lt) = 0.250 %/day
Test Pressure = 59.00 PSIG
Total # Sensors = 33
Total # Press. = 3
Total # Dew Pt. = 6
Total # Temp. = 24
Start Temp Stab Rdg = 61, End Temp Stab Rdg = 93
Start Leak Rate Test Rdg = 93, End Leak Rate Test Rdg = 119
Start Verif. Test Rdg = 126, End Verif. Test Rdg = 146
Raw Data File - ONS20693.RDA Test Data File - ONS20693.TDA••

Sensor Information

Page 1 of 1

Oconee Nuclear Station
Unit 2 - 6/93

Pressures

| NUM | CHAN | SERIAL | VOL FRACT | C0 | C1 | C2 | C3 | C4 |
|-----|------|------------|-----------|-----|-----|----|----|----|
| 1 | 1001 | OCPRF28346 | 0.500000 | 0.0 | 1.0 | - | - | - |
| 2 | 1002 | OCPRF28347 | 0.500000 | 0.0 | 1.0 | - | - | - |
| 3 | 1003 | SNPRF41113 | 0.000000 | 0.0 | 1.0 | - | - | - |

Dew Points

| NUM | CHAN | SERIAL | VOL FRACT | C0 | C1 | C2 | C3 | C4 |
|-----|------|------------|-----------|-----|--------|----|----|----|
| 1 | 1 | SNPRF41101 | 0.150000 | 0.0 | 5000.0 | - | - | - |
| 2 | 2 | SNPRF41103 | 0.200000 | 0.0 | 5000.0 | - | - | - |
| 3 | 3 | SNPRF41106 | 0.150000 | 0.0 | 5000.0 | - | - | - |
| 4 | 4 | SNPRF41126 | 0.150000 | 0.0 | 5000.0 | - | - | - |
| 5 | 5 | SNPRF41127 | 0.200000 | 0.0 | 5000.0 | - | - | - |
| 6 | 6 | SNPRF41128 | 0.150000 | 0.0 | 5000.0 | - | - | - |

Temperatures

| NUM | CHAN | SERIAL | VOL FRACT | C0 | C1 | C2 | C3 | C4 |
|-----|------|---------------|-----------|------------|-----------|------------|----|----|
| 1 | 21 | SNPRF40440 | 0.030000 | -407.6560 | 4.2000790 | 0.00200714 | - | - |
| 2 | 22 | Not Installed | 0.000000 | 0.0 | 0.0 | - | - | - |
| 3 | 23 | SNPRF40807 | 0.020000 | -408.25950 | 4.2091890 | 0.00196350 | - | - |
| 4 | 24 | SNPRF40433 | 0.050000 | -408.05220 | 4.2038930 | 0.00197459 | - | - |
| 5 | 25 | SNPRF40824 | 0.020000 | -408.91630 | 4.2184630 | 0.00192450 | - | - |
| 6 | 26 | SNPRF40436 | 0.030000 | -408.16970 | 4.204690 | 0.00198287 | - | - |
| 7 | 27 | SNPRF40833 | 0.010000 | -407.92430 | 4.2025980 | 0.00197197 | - | - |
| 8 | 28 | SNPRF41118 | 0.080000 | -408.45760 | 4.2111030 | 0.00195051 | - | - |
| 9 | 29 | SNPRF40830 | 0.050000 | -408.22450 | 4.2055930 | 0.00195415 | - | - |
| 10 | 30 | SNPRF40808 | 0.050000 | -408.11990 | 4.2038480 | 0.00196427 | - | - |
| 11 | 31 | SNPRF40813 | 0.020000 | -408.12860 | 4.2060480 | 0.00196805 | - | - |
| 12 | 32 | SNPRF40390 | 0.020000 | -407.36930 | 4.1956680 | 0.00200507 | - | - |
| 13 | 33 | SNPRF40828 | 0.030000 | -408.84460 | 4.2139480 | 0.00195788 | - | - |
| 14 | 34 | SNPRF40825 | 0.020000 | -408.08180 | 4.2046970 | 0.00196672 | - | - |
| 15 | 35 | SNPRF40387 | 0.020000 | -407.27810 | 4.1952820 | 0.00200447 | - | - |
| 16 | 36 | SNPRF41116 | 0.010000 | -408.11390 | 4.2033320 | 0.00196941 | - | - |
| 17 | 37 | SNPRF40806 | 0.050000 | -407.86440 | 4.2003190 | 0.00198557 | - | - |
| 18 | 38 | SNPRF40812 | 0.094000 | -408.32190 | 4.2090910 | 0.00194494 | - | - |
| 19 | 39 | SNPRF40831 | 0.094000 | -408.0470 | 4.2039020 | 0.00197394 | - | - |
| 20 | 40 | SNPRF40835 | 0.010000 | -408.62530 | 4.2162260 | 0.00190811 | - | - |
| 21 | 41 | SNPRF40381 | 0.010000 | -407.84930 | 4.2053770 | 0.00195307 | - | - |
| 22 | 42 | SNPRF40438 | 0.094000 | -407.8550 | 4.2009310 | 0.00199924 | - | - |
| 23 | 43 | SNPRF40816 | 0.094000 | -408.53590 | 4.2105290 | 0.00195835 | - | - |
| 24 | 44 | SNPRF40834 | 0.094000 | -408.29710 | 4.2078190 | 0.00195422 | - | - |

APPENDIX E

Test Data Summary

Reports:

- **Calibrated Instrument Data (by reading number)**

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93

Reading # 61 - Jun 10 04:30:09

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 75.656 | 75.64 | 14.283 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 64.557 | 77.418 | 64.751 | 63.429 | 67.043 | 64.245 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 67.826 | 0 | 71.997 | 72.71 | 73.219 | 74.688 | 73.472 | 74.487 | 78.754 | 78.711 | 67.844 | 68.109 |
| 13..24 | 68.134 | 73.384 | 73.902 | 74.347 | 75.252 | 86.969 | 87.481 | 73.401 | 74.959 | 87.017 | 87.465 | 87.892 |

Reading # 62 - Jun 10 04:45:10

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 75.491 | 75.475 | 14.284 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 63.927 | 78.112 | 64.198 | 64.046 | 67.363 | 63.93 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 67.386 | 0 | 71.71 | 72.288 | 72.815 | 74.358 | 73.055 | 73.884 | 78.5 | 78.317 | 67.431 | 67.674 |
| 13..24 | 67.629 | 73.008 | 73.299 | 73.897 | 74.826 | 85.822 | 86.608 | 72.993 | 74.478 | 86.143 | 86.6 | 86.972 |

Reading # 63 - Jun 10 05:00:10

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 75.392 | 75.376 | 14.282 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 63.93 | 78.036 | 63.808 | 64.289 | 68.763 | 64.09 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.973 | 0 | 71.404 | 71.871 | 72.37 | 74.052 | 72.708 | 73.513 | 78.054 | 77.904 | 67.061 | 67.239 |
| 13..24 | 67.184 | 72.703 | 72.832 | 73.615 | 74.196 | 84.703 | 85.586 | 72.646 | 74.126 | 85.139 | 85.587 | 85.927 |

Reading # 64 - Jun 10 05:15:11

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 75.318 | 75.302 | 14.281 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 64.313 | 76.231 | 63.725 | 64.439 | 68.367 | 64.322 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.705 | 0 | 71.214 | 71.658 | 72.11 | 73.881 | 72.49 | 73.374 | 77.744 | 77.561 | 66.848 | 67.017 |
| 13..24 | 66.938 | 72.489 | 72.521 | 73.249 | 73.904 | 83.849 | 84.75 | 72.437 | 73.908 | 84.312 | 84.713 | 84.994 |

Reading # 65 - Jun 10 05:30:11

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 75.261 | 75.245 | 14.282 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 64.622 | 76.068 | 63.725 | 64.673 | 68.758 | 64.319 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.538 | 0 | 71.066 | 71.455 | 71.92 | 73.732 | 72.309 | 73.272 | 77.466 | 77.292 | 66.709 | 66.845 |
| 13..24 | 66.748 | 72.318 | 72.299 | 72.975 | 73.691 | 83.213 | 84.007 | 72.321 | 73.746 | 83.606 | 84.021 | 84.186 |

Calibrated Instrument Data

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Oconee Nuclear Station
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Reading # 66 - Jun 10 05:45:12

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 75.213 | 75.197 | 14.284 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 64.863 | 75.909 | 63.96 | 64.994 | 69.071 | 64.394 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.399 | 0 | 70.94 | 71.288 | 71.804 | 73.621 | 72.161 | 73.189 | 77.22 | 77.037 | 66.617 | 66.73 |
| 13..24 | 66.609 | 72.207 | 72.128 | 72.836 | 73.579 | 82.674 | 83.394 | 72.233 | 73.639 | 83.039 | 83.421 | 83.568 |

Reading # 67 - Jun 10 06:00:12

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 75.174 | 75.156 | 14.286 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 65.174 | 76.144 | 64.195 | 65.224 | 69.313 | 64.632 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.33 | 0 | 70.862 | 71.186 | 71.725 | 73.528 | 72.073 | 73.054 | 77.03 | 76.861 | 66.547 | 66.628 |
| 13..24 | 66.516 | 72.123 | 72.007 | 72.776 | 73.496 | 82.257 | 82.902 | 72.169 | 73.528 | 82.575 | 82.966 | 83.039 |

Reading # 68 - Jun 10 06:15:13

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 75.138 | 75.121 | 14.29 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 65.328 | 75.36 | 64.506 | 65.451 | 69.149 | 64.712 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.265 | 0 | 70.801 | 71.075 | 71.633 | 73.445 | 72.013 | 72.999 | 76.822 | 76.694 | 66.496 | 66.582 |
| 13..24 | 66.438 | 72.059 | 71.915 | 72.785 | 73.427 | 81.862 | 82.494 | 72.09 | 73.454 | 82.226 | 82.553 | 82.612 |

Reading # 69 - Jun 10 06:30:13

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 75.107 | 75.09 | 14.294 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 65.641 | 77.077 | 64.748 | 65.685 | 69.313 | 64.88 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.214 | 0 | 70.727 | 70.991 | 71.554 | 73.366 | 71.944 | 72.948 | 76.641 | 76.537 | 66.459 | 66.512 |
| 13..24 | 66.368 | 71.994 | 71.822 | 72.734 | 73.38 | 81.519 | 82.118 | 72.039 | 73.389 | 81.925 | 82.214 | 82.245 |

Reading # 70 - Jun 10 06:45:14

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 75.08 | 75.064 | 14.299 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 65.795 | 77.159 | 64.973 | 65.999 | 69.147 | 64.953 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.158 | 0 | 70.686 | 70.903 | 71.466 | 73.324 | 71.888 | 72.818 | 76.52 | 76.393 | 66.441 | 66.489 |
| 13..24 | 66.322 | 71.943 | 71.743 | 72.693 | 73.334 | 81.227 | 81.825 | 72.02 | 73.352 | 81.646 | 81.907 | 81.948 |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93**Reading # 71 - Jun 10 07:00:14**

| | | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 75.055 | 75.039 | 14.302 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 66.029 | 76.369 | 65.125 | 66.153 | 69.314 | 65.026 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.117 | 0 | 70.653 | 70.838 | 71.401 | 73.269 | 71.846 | 72.827 | 76.391 | 76.273 | 66.399 | 66.475 |
| 13..24 | 66.28 | 71.897 | 71.669 | 72.646 | 73.237 | 80.967 | 81.566 | 71.979 | 73.297 | 81.386 | 81.624 | 81.675 |

Reading # 72 - Jun 10 07:15:15

| | | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 75.033 | 75.016 | 14.304 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 66.18 | 76.293 | 65.285 | 66.387 | 69.385 | 65.177 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.089 | 0 | 70.584 | 70.769 | 71.35 | 73.195 | 71.786 | 72.799 | 76.265 | 76.152 | 66.367 | 66.429 |
| 13..24 | 66.229 | 71.859 | 71.586 | 72.596 | 73.195 | 80.735 | 81.296 | 71.942 | 73.236 | 81.154 | 81.378 | 81.442 |

Reading # 73 - Jun 10 07:30:15

| | | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 75.012 | 74.997 | 14.304 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 66.34 | 76.366 | 65.437 | 66.62 | 69.625 | 65.177 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.061 | 0 | 70.556 | 70.709 | 71.29 | 73.171 | 71.758 | 72.697 | 76.154 | 76.05 | 66.353 | 66.392 |
| 13..24 | 66.197 | 71.832 | 71.549 | 72.596 | 73.172 | 80.522 | 81.078 | 71.914 | 73.213 | 80.954 | 81.169 | 81.229 |

Reading # 74 - Jun 10 07:45:16

| | | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.994 | 74.978 | 14.307 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 66.418 | 76.441 | 65.596 | 66.695 | 69.702 | 65.177 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.038 | 0 | 70.509 | 70.676 | 71.248 | 73.116 | 71.74 | 72.73 | 76.043 | 75.953 | 66.32 | 66.36 |
| 13..24 | 66.173 | 71.799 | 71.484 | 72.563 | 73.162 | 80.308 | 80.86 | 71.858 | 73.167 | 80.754 | 80.96 | 81.016 |

Reading # 75 - Jun 10 08:00:16

| | | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.977 | 74.961 | 14.308 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 66.571 | 75.818 | 65.673 | 66.778 | 70.094 | 65.256 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 66.005 | 0 | 70.491 | 70.625 | 71.192 | 73.083 | 71.703 | 72.688 | 75.969 | 75.874 | 66.297 | 66.35 |
| 13..24 | 66.15 | 71.767 | 71.442 | 72.549 | 73.116 | 80.123 | 80.675 | 71.844 | 73.144 | 80.569 | 80.783 | 80.802 |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93

Reading # 76 - Jun 10 08:14:41

| | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|--|
| | | | | | | | | | | | | Pressures (PSIA) | |
| 1.. 3 | 74.962 | 74.945 | 14.309 | | | | | | | | | | |
| | | | | | | | | | | | | Dew Points (°F) | |
| 1.. 6 | 66.724 | 75.581 | 65.829 | 66.85 | 69.86 | 65.328 | | | | | | | |
| | | | | | | | | | | | | Temperatures (°F) | |
| 1..12 | 65.973 | 0 | 70.449 | 70.579 | 71.169 | 73.051 | 71.675 | 72.633 | 75.881 | 75.777 | 66.279 | 66.327 | |
| 13..24 | 66.118 | 71.748 | 71.401 | 72.526 | 73.088 | 79.96 | 80.521 | 71.798 | 73.107 | 80.402 | 80.584 | 80.626 | |

Reading # 77 - Jun 10 08:29:42

| | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|--|
| | | | | | | | | | | | | Pressures (PSIA) | |
| 1.. 3 | 74.947 | 74.93 | 14.312 | | | | | | | | | | |
| | | | | | | | | | | | | Dew Points (°F) | |
| 1.. 6 | 66.804 | 75.427 | 65.906 | 67.008 | 69.782 | 65.331 | | | | | | | |
| | | | | | | | | | | | | Temperatures (°F) | |
| 1..12 | 65.973 | 0 | 70.426 | 70.537 | 71.127 | 73.018 | 71.652 | 72.633 | 75.807 | 75.712 | 66.265 | 66.318 | |
| 13..24 | 66.099 | 71.725 | 71.368 | 72.517 | 73.074 | 79.798 | 80.364 | 71.784 | 73.084 | 80.244 | 80.44 | 80.491 | |

Reading # 78 - Jun 10 08:43:45

| | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|--|
| | | | | | | | | | | | | Pressures (PSIA) | |
| 1.. 3 | 74.934 | 74.917 | 14.314 | | | | | | | | | | |
| | | | | | | | | | | | | Dew Points (°F) | |
| 1.. 6 | 66.884 | 75.66 | 65.984 | 67.088 | 69.461 | 65.331 | | | | | | | |
| | | | | | | | | | | | | Temperatures (°F) | |
| 1..12 | 65.936 | 0 | 70.398 | 70.486 | 71.1 | 72.977 | 71.61 | 72.563 | 75.746 | 75.642 | 66.26 | 66.309 | |
| 13..24 | 66.067 | 71.707 | 71.359 | 72.512 | 73.047 | 79.673 | 80.224 | 71.775 | 73.07 | 80.095 | 80.277 | 80.352 | |

Reading # 79 - Jun 10 09:00:15

| | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|--|
| | | | | | | | | | | | | Pressures (PSIA) | |
| 1.. 3 | 74.92 | 74.902 | 14.314 | | | | | | | | | | |
| | | | | | | | | | | | | Dew Points (°F) | |
| 1.. 6 | 66.963 | 75.893 | 66.147 | 67.164 | 69.228 | 65.334 | | | | | | | |
| | | | | | | | | | | | | Temperatures (°F) | |
| 1..12 | 65.922 | 0 | 70.398 | 70.454 | 71.058 | 72.977 | 71.61 | 72.586 | 75.682 | 75.564 | 66.228 | 66.286 | |
| 13..24 | 66.058 | 71.674 | 71.331 | 72.512 | 73 | 79.506 | 80.108 | 71.733 | 73.056 | 79.933 | 80.129 | 80.18 | |

Reading # 80 - Jun 10 09:15:23

| | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|--|
| | | | | | | | | | | | | Pressures (PSIA) | |
| 1.. 3 | 74.907 | 74.891 | 14.315 | | | | | | | | | | |
| | | | | | | | | | | | | Dew Points (°F) | |
| 1.. 6 | 67.037 | 75.816 | 66.145 | 67.323 | 69.147 | 65.408 | | | | | | | |
| | | | | | | | | | | | | Temperatures (°F) | |
| 1..12 | 65.913 | 0 | 70.356 | 70.431 | 71.049 | 72.935 | 71.592 | 72.563 | 75.64 | 75.508 | 66.228 | 66.235 | |
| 13..24 | 66.025 | 71.683 | 71.285 | 72.521 | 73 | 79.381 | 79.965 | 71.729 | 73.014 | 79.812 | 79.994 | 80.078 | |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93**Reading # 81 - Jun 10 09:30:23**

| | | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.895 | 74.879 | 14.315 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 67.116 | 75.894 | 66.223 | 67.406 | 69.385 | 65.407 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.899 | 0 | 70.347 | 70.394 | 71.007 | 72.921 | 71.582 | 72.489 | 75.556 | 75.452 | 66.2 | 66.216 |
| 13..24 | 66.02 | 71.66 | 71.257 | 72.549 | 72.963 | 79.232 | 79.849 | 71.701 | 73 | 79.696 | 79.883 | 79.953 |

Reading # 82 - Jun 10 09:45:23

| | | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.885 | 74.869 | 14.314 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 67.191 | 75.821 | 66.296 | 67.403 | 69.625 | 65.48 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.89 | 0 | 70.338 | 70.394 | 70.988 | 72.912 | 71.578 | 72.535 | 75.515 | 75.397 | 66.191 | 66.23 |
| 13..24 | 66.011 | 71.66 | 71.248 | 72.582 | 72.912 | 79.125 | 79.756 | 71.673 | 72.973 | 79.58 | 79.767 | 79.828 |

Reading # 83 - Jun 10 10:00:24

| | | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.874 | 74.858 | 14.31 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 67.269 | 75.506 | 66.298 | 67.557 | 69.464 | 65.482 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.876 | 0 | 70.315 | 70.366 | 70.965 | 72.898 | 71.555 | 72.526 | 75.482 | 75.364 | 66.191 | 66.207 |
| 13..24 | 65.988 | 71.637 | 71.234 | 72.526 | 72.903 | 79.005 | 79.645 | 71.682 | 72.968 | 79.469 | 79.674 | 79.749 |

Reading # 84 - Jun 10 10:15:24

| | | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.865 | 74.848 | 14.311 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 67.349 | 75.506 | 66.372 | 67.632 | 69.147 | 65.486 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.843 | 0 | 70.296 | 70.352 | 70.947 | 72.856 | 71.531 | 72.494 | 75.417 | 75.309 | 66.158 | 66.198 |
| 13..24 | 65.965 | 71.605 | 71.192 | 72.508 | 72.912 | 78.898 | 79.515 | 71.673 | 72.959 | 79.385 | 79.581 | 79.652 |

Reading # 85 - Jun 10 10:30:25

| | | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.855 | 74.839 | 14.309 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 67.349 | 74.731 | 66.372 | 67.632 | 69.462 | 65.48 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.839 | 0 | 70.268 | 70.324 | 70.928 | 72.838 | 71.513 | 72.466 | 75.367 | 75.239 | 66.149 | 66.179 |
| 13..24 | 65.937 | 71.609 | 71.178 | 72.48 | 72.875 | 78.792 | 79.436 | 71.655 | 72.954 | 79.269 | 79.474 | 79.559 |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93**Reading # 86 - Jun 10 10:44:44****Pressures (PSIA)**

1.. 3 74.848 74.831 14.307

Dew Points (°F)

1.. 6 67.511 75.266 66.456 67.636 69.382 65.564

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.839 | 0 | 70.259 | 70.324 | 70.905 | 72.828 | 71.513 | 72.475 | 75.325 | 75.207 | 66.14 | 66.161 |
| 13..24 | 65.937 | 71.6 | 71.155 | 72.47 | 72.875 | 78.694 | 79.348 | 71.645 | 72.931 | 79.195 | 79.391 | 79.475 |

Reading # 87 - Jun 10 11:00:16**Pressures (PSIA)**

1.. 3 74.839 74.822 14.308

Dew Points (°F)

1.. 6 67.508 75.345 66.459 67.712 69.388 65.486

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.82 | 0 | 70.25 | 70.32 | 70.9 | 72.824 | 71.518 | 72.447 | 75.274 | 75.156 | 66.121 | 66.151 |
| 13..24 | 65.942 | 71.591 | 71.146 | 72.461 | 72.857 | 78.615 | 79.264 | 71.627 | 72.912 | 79.102 | 79.284 | 79.369 |

Reading # 88 - Jun 10 11:15:24**Pressures (PSIA)**

1.. 3 74.831 74.815 14.308

Dew Points (°F)

1.. 6 67.505 75.266 66.526 67.79 69.385 65.558

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.811 | 0 | 70.241 | 70.283 | 70.9 | 72.824 | 71.499 | 72.48 | 75.255 | 75.123 | 66.135 | 66.128 |
| 13..24 | 65.914 | 71.582 | 71.146 | 72.461 | 72.834 | 78.527 | 79.19 | 71.622 | 72.908 | 79.009 | 79.214 | 79.299 |

Reading # 89 - Jun 10 11:30:25**Pressures (PSIA)**

1.. 3 74.824 74.807 14.307

Dew Points (°F)

1.. 6 67.585 75.268 66.533 67.789 69.462 65.559

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.779 | 0 | 70.217 | 70.273 | 70.886 | 72.787 | 71.476 | 72.447 | 75.186 | 75.082 | 66.103 | 66.128 |
| 13..24 | 65.9 | 71.558 | 71.127 | 72.438 | 72.81 | 78.439 | 79.092 | 71.631 | 72.898 | 78.935 | 79.117 | 79.211 |

Reading # 90 - Jun 10 11:45:25**Pressures (PSIA)**

1.. 3 74.817 74.8 14.308

Dew Points (°F)

1.. 6 67.59 75.263 66.607 67.867 69.464 65.558

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.792 | 0 | 70.231 | 70.273 | 70.891 | 72.801 | 71.481 | 72.47 | 75.177 | 75.072 | 66.103 | 66.142 |
| 13..24 | 65.914 | 71.563 | 71.127 | 72.443 | 72.806 | 78.388 | 79.028 | 71.613 | 72.88 | 78.861 | 79.042 | 79.127 |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93

Reading # 91 - Jun 10 12:00:26

| | | | | | | | | | | | | |
|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..3 | 74.811 | 74.793 | 14.308 | | | | | | | | | |
| | | | | Pressures (PSIA) | | | | | | | | |
| | | | | Dew Points (°F) | | | | | | | | |
| 1..6 | 67.662 | 75.112 | 66.607 | 67.863 | 69.863 | 65.558 | | | | | | |
| | | | | Temperatures (°F) | | | | | | | | |
| 1..12 | 65.774 | 0 | 70.213 | 70.273 | 70.882 | 72.782 | 71.471 | 72.452 | 75.153 | 75.035 | 66.107 | 66.124 |
| 13..24 | 65.895 | 71.544 | 71.1 | 72.457 | 72.806 | 78.305 | 78.949 | 71.613 | 72.889 | 78.786 | 78.968 | 79.067 |

Reading # 92 - Jun 10 12:15:26

| | | | | | | | | | | | | |
|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..3 | 74.803 | 74.787 | 14.307 | | | | | | | | | |
| | | | | Pressures (PSIA) | | | | | | | | |
| | | | | Dew Points (°F) | | | | | | | | |
| 1..6 | 67.661 | 75.108 | 66.609 | 67.943 | 69.071 | 65.559 | | | | | | |
| | | | | Temperatures (°F) | | | | | | | | |
| 1..12 | 65.779 | 0 | 70.217 | 70.273 | 70.882 | 72.768 | 71.481 | 72.494 | 75.126 | 75.008 | 66.103 | 66.11 |
| 13..24 | 65.891 | 71.554 | 71.095 | 72.443 | 72.815 | 78.235 | 78.888 | 71.59 | 72.875 | 78.712 | 78.898 | 79.002 |

Reading # 93 - Jun 10 12:30:27

| | | | | | | | | | | | | |
|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..3 | 74.798 | 74.78 | 14.304 | | | | | | | | | |
| | | | | Pressures (PSIA) | | | | | | | | |
| | | | | Dew Points (°F) | | | | | | | | |
| 1..6 | 67.737 | 74.886 | 66.611 | 67.943 | 69.698 | 65.559 | | | | | | |
| | | | | Temperatures (°F) | | | | | | | | |
| 1..12 | 65.792 | 0 | 70.199 | 70.273 | 70.891 | 72.759 | 71.467 | 72.503 | 75.093 | 74.998 | 66.094 | 66.1 |
| 13..24 | 65.891 | 71.563 | 71.086 | 72.429 | 72.806 | 78.184 | 78.81 | 71.604 | 72.871 | 78.652 | 78.847 | 78.956 |

Reading # 94 - Jun 10 12:45:27

| | | | | | | | | | | | | |
|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..3 | 74.791 | 74.775 | 14.302 | | | | | | | | | |
| | | | | Pressures (PSIA) | | | | | | | | |
| | | | | Dew Points (°F) | | | | | | | | |
| 1..6 | 67.663 | 75.113 | 66.687 | 67.943 | 69.622 | 65.559 | | | | | | |
| | | | | Temperatures (°F) | | | | | | | | |
| 1..12 | 65.769 | 0 | 70.199 | 70.269 | 70.9 | 72.75 | 71.467 | 72.438 | 75.07 | 74.966 | 66.094 | 66.1 |
| 13..24 | 65.868 | 71.563 | 71.072 | 72.42 | 72.806 | 78.138 | 78.768 | 71.604 | 72.871 | 78.587 | 78.782 | 78.891 |

Reading # 95 - Jun 10 13:00:28

| | | | | | | | | | | | | |
|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..3 | 74.785 | 74.769 | 14.298 | | | | | | | | | |
| | | | | Pressures (PSIA) | | | | | | | | |
| | | | | Dew Points (°F) | | | | | | | | |
| 1..6 | 67.742 | 74.958 | 66.609 | 68.028 | 69.459 | 65.635 | | | | | | |
| | | | | Temperatures (°F) | | | | | | | | |
| 1..12 | 65.76 | 0 | 70.19 | 70.255 | 70.891 | 72.759 | 71.467 | 72.438 | 75.038 | 74.933 | 66.094 | 66.087 |
| 13..24 | 65.868 | 71.554 | 71.072 | 72.429 | 72.783 | 78.063 | 78.703 | 71.59 | 72.875 | 78.531 | 78.704 | 78.831 |

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Oconee Nuclear Station
Unit 2 - 6/93**Reading # 96 - Jun 10 13:15:28****Pressures (PSIA)**

1.. 3 74.781 74.764 14.298

Dew Points (°F)

1.. 6 67.738 74.885 66.683 67.948 69.697 65.558

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.76 | 0 | 70.19 | 70.246 | 70.882 | 72.759 | 71.467 | 72.447 | 75.028 | 74.933 | 66.084 | 66.077 |
| 13..24 | 65.858 | 71.54 | 71.072 | 72.42 | 72.773 | 78.031 | 78.638 | 71.622 | 72.866 | 78.475 | 78.662 | 78.78 |

Reading # 97 - Jun 10 13:30:29**Pressures (PSIA)**

1.. 3 74.776 74.759 14.314

Dew Points (°F)

1.. 6 67.824 74.489 66.684 68.028 69.385 65.562

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.755 | 0 | 70.194 | 70.25 | 70.896 | 72.745 | 71.462 | 72.456 | 75.01 | 74.906 | 66.089 | 66.096 |
| 13..24 | 65.854 | 71.549 | 71.072 | 72.415 | 72.778 | 77.98 | 78.568 | 71.594 | 72.834 | 78.415 | 78.574 | 78.705 |

Reading # 98 - Jun 10 13:45:29**Pressures (PSIA)**

1.. 3 74.77 74.754 14.295

Dew Points (°F)

1.. 6 67.817 74.649 66.686 68.021 69.461 65.564

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.76 | 0 | 70.19 | 70.269 | 70.882 | 72.736 | 71.457 | 72.461 | 74.982 | 74.91 | 66.07 | 66.068 |
| 13..24 | 65.858 | 71.54 | 71.053 | 72.42 | 72.783 | 77.924 | 78.508 | 71.608 | 72.829 | 78.364 | 78.536 | 78.645 |

Reading # 99 - Jun 10 14:00:30**Pressures (PSIA)**

1.. 3 74.766 74.75 14.293

Dew Points (°F)

1.. 6 67.824 74.489 66.687 68.022 69.54 65.559

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.737 | 0 | 70.19 | 70.255 | 70.882 | 72.736 | 71.448 | 72.447 | 74.963 | 74.869 | 66.061 | 66.077 |
| 13..24 | 65.849 | 71.531 | 71.063 | 72.42 | 72.773 | 77.869 | 78.476 | 71.599 | 72.852 | 78.322 | 78.485 | 78.594 |

Reading # 100 - Jun 10 14:15:30**Pressures (PSIA)**

1.. 3 74.762 74.744 14.292

Dew Points (°F)

1.. 6 67.822 74.575 66.691 68.105 69.466 65.639

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.737 | 0 | 70.176 | 70.273 | 70.882 | 72.726 | 71.467 | 72.484 | 74.94 | 74.855 | 66.047 | 66.068 |
| 13..24 | 65.849 | 71.54 | 71.044 | 72.41 | 72.783 | 77.813 | 78.411 | 71.599 | 72.843 | 78.276 | 78.43 | 78.548 |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93

Reading # 101 - Jun 10 14:30:31

| | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 1..3 | 74.757 | 74.74 | 14.29 | | | | | | | | | | |
| Pressures (PSIA) | | | | | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | | |
| 1..6 | 67.821 | 74.568 | 66.69 | 68.098 | 69.623 | 65.629 | | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | | |
| 1..12 | 65.755 | 0 | 70.185 | 70.273 | 70.886 | 72.745 | 71.462 | 72.48 | 74.95 | 74.864 | 66.057 | 66.063 | |
| 13..24 | 65.844 | 71.558 | 71.058 | 72.415 | 72.801 | 77.785 | 78.374 | 71.608 | 72.843 | 78.225 | 78.397 | 78.497 | |

Reading # 102 - Jun 10 14:45:31

| | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 1..3 | 74.753 | 74.736 | 14.289 | | | | | | | | | | |
| Pressures (PSIA) | | | | | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | | |
| 1..6 | 67.896 | 74.491 | 66.68 | 68.103 | 69.536 | 65.637 | | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | | |
| 1..12 | 65.718 | 0 | 70.18 | 70.273 | 70.863 | 72.722 | 71.448 | 72.475 | 74.912 | 74.827 | 66.043 | 66.05 | |
| 13..24 | 65.83 | 71.535 | 71.035 | 72.392 | 72.787 | 77.73 | 78.304 | 71.613 | 72.848 | 78.188 | 78.36 | 78.459 | |

Reading # 103 - Jun 10 15:00:32

| | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 1..3 | 74.749 | 74.732 | 14.287 | | | | | | | | | | |
| Pressures (PSIA) | | | | | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | | |
| 1..6 | 67.896 | 74.262 | 66.614 | 68.103 | 69.701 | 65.641 | | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | | |
| 1..12 | 65.718 | 0 | 70.171 | 70.273 | 70.872 | 72.722 | 71.462 | 72.433 | 74.889 | 74.808 | 66.043 | 66.073 | |
| 13..24 | 65.84 | 71.558 | 71.026 | 72.415 | 72.778 | 77.688 | 78.276 | 71.599 | 72.852 | 78.137 | 78.3 | 78.408 | |

Reading # 104 - Jun 10 15:15:32

| | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 1..3 | 74.745 | 74.728 | 14.286 | | | | | | | | | | |
| Pressures (PSIA) | | | | | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | | |
| 1..6 | 67.817 | 74.173 | 66.686 | 68.097 | 69.458 | 65.712 | | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | | |
| 1..12 | 65.732 | 0 | 70.185 | 70.273 | 70.886 | 72.745 | 71.462 | 72.443 | 74.894 | 74.818 | 66.043 | 66.096 | |
| 13..24 | 65.844 | 71.568 | 71.049 | 72.424 | 72.778 | 77.669 | 78.234 | 71.608 | 72.843 | 78.095 | 78.258 | 78.362 | |

Reading # 105 - Jun 10 15:30:33

| | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 1..3 | 74.742 | 74.724 | 14.282 | | | | | | | | | | |
| Pressures (PSIA) | | | | | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | | |
| 1..6 | 67.98 | 74.092 | 66.613 | 68.103 | 69.539 | 65.718 | | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | | |
| 1..12 | 65.737 | 0 | 70.176 | 70.273 | 70.882 | 72.726 | 71.457 | 72.494 | 74.875 | 74.813 | 66.038 | 66.087 | |
| 13..24 | 65.826 | 71.563 | 71.044 | 72.443 | 72.783 | 77.628 | 78.193 | 71.599 | 72.843 | 78.053 | 78.225 | 78.33 | |

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Oconee Nuclear Station
Unit 2 - 6/93

Reading # 106 - Jun 10 15:45:33

Pressures (PSIA)

1..3 74.738 74.721 14.281

Dew Points (°F)

1..6 67.896 74.013 66.61 68.097 69.539 65.715

Temperatures (°F)

1..12 65.723 0 70.19 70.273 70.882 72.736 71.457 72.461 74.885 74.804 66.047 66.1
13..24 65.817 71.563 71.03 72.452 72.783 77.595 78.16 71.631 72.843 78.007 78.179 78.288

Reading # 107 - Jun 10 16:00:34

Pressures (PSIA)

1..3 74.734 74.717 14.28

Dew Points (°F)

1..6 67.896 74.099 66.609 68.103 69.625 65.719

Temperatures (°F)

1..12 65.714 0 70.19 70.287 70.868 72.736 71.481 72.461 74.857 74.78 66.038 66.1
13..24 65.826 71.563 71.03 72.484 72.773 77.553 78.128 71.608 72.852 77.983 78.128 78.246

Reading # 108 - Jun 10 16:15:34

Pressures (PSIA)

1..3 74.731 74.715 14.277

Dew Points (°F)

1..6 67.896 74.171 66.611 68.101 69.462 65.717

Temperatures (°F)

1..12 65.714 0 70.19 70.273 70.882 72.736 71.457 72.47 74.843 74.78 66.029 66.1
13..24 65.817 71.572 71.044 72.452 72.783 77.53 78.077 71.617 72.852 77.942 78.105 78.214

Reading # 109 - Jun 10 16:29:52

Pressures (PSIA)

1..3 74.728 74.711 14.274

Dew Points (°F)

1..6 67.899 74.093 66.687 68.101 69.313 65.717

Temperatures (°F)

1..12 65.714 0 70.208 70.287 70.868 72.736 71.481 72.447 74.843 74.757 66.038 66.11
13..24 65.817 71.563 71.03 72.484 72.783 77.498 78.04 71.613 72.861 77.895 78.068 78.186

Reading # 110 - Jun 10 16:44:51

Pressures (PSIA)

1..3 74.726 74.708 14.271

Dew Points (°F)

1..6 67.903 74.174 66.609 68.101 69.467 65.717

Temperatures (°F)

1..12 65.714 0 70.204 70.292 70.886 72.754 71.476 72.48 74.838 74.767 66.043 66.128
13..24 65.821 71.568 71.049 72.47 72.778 77.47 78.026 71.604 72.861 77.872 78.035 78.153

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93

Reading # 111 - Jun 10 16:59:52

Pressures (PSIA)

1..3 74.722 74.705 14.271

Dew Points (°F)

1..6 67.903 74.332 66.606 68.103 69.462 65.719

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.7 | 0 | 70.194 | 70.278 | 70.882 | 72.731 | 71.462 | 72.466 | 74.824 | 74.753 | 66.033 | 66.105 |
| 13..24 | 65.798 | 71.568 | 71.035 | 72.47 | 72.806 | 77.438 | 77.961 | 71.636 | 72.861 | 77.83 | 77.993 | 78.121 |

Reading # 112 - Jun 10 17:14:52

Pressures (PSIA)

1..3 74.719 74.702 14.271

Dew Points (°F)

1..6 67.899 74.02 66.609 68.101 69.464 65.717

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.718 | 0 | 70.217 | 70.283 | 70.886 | 72.754 | 71.494 | 72.456 | 74.815 | 74.767 | 66.033 | 66.114 |
| 13..24 | 65.812 | 71.568 | 71.049 | 72.494 | 72.801 | 77.41 | 77.938 | 71.627 | 72.871 | 77.816 | 77.97 | 78.079 |

Reading # 113 - Jun 10 17:29:53

Pressures (PSIA)

1..3 74.717 74.7 14.269

Dew Points (°F)

1..6 67.899 74.013 66.686 68.097 69.309 65.715

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.714 | 0 | 70.227 | 70.306 | 70.886 | 72.754 | 71.494 | 72.498 | 74.815 | 74.743 | 66.043 | 66.114 |
| 13..24 | 65.812 | 71.591 | 71.04 | 72.512 | 72.81 | 77.396 | 77.928 | 71.617 | 72.875 | 77.77 | 77.919 | 78.047 |

Reading # 114 - Jun 10 17:44:53

Pressures (PSIA)

1..3 74.714 74.697 14.268

Dew Points (°F)

1..6 67.9 74.093 66.687 68.098 69.226 65.717

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.704 | 0 | 70.217 | 70.297 | 70.882 | 72.75 | 71.49 | 72.526 | 74.801 | 74.739 | 66.029 | 66.119 |
| 13..24 | 65.793 | 71.595 | 71.044 | 72.498 | 72.806 | 77.359 | 77.882 | 71.627 | 72.88 | 77.756 | 77.896 | 78.024 |

Reading # 115 - Jun 10 17:59:54

Pressures (PSIA)

1..3 74.711 74.694 14.269

Dew Points (°F)

1..6 67.903 74.647 66.687 68.101 69.316 65.717

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.704 | 0 | 70.217 | 70.297 | 70.891 | 72.75 | 71.499 | 72.47 | 74.811 | 74.739 | 66.029 | 66.119 |
| 13..24 | 65.793 | 71.586 | 71.044 | 72.498 | 72.806 | 77.326 | 77.859 | 71.645 | 72.889 | 77.728 | 77.877 | 77.996 |

Calibrated Instrument Data

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Oconee Nuclear Station

Unit 2 - 6/93

Reading # 116 - Jun 10 18:14:54**Pressures (PSIA)**

1.. 3 74.709 74.693 14.269

Dew Points (°F)

1.. 6 67.899 74.409 66.607 68.027 69.309 65.718

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.704 | 0 | 70.231 | 70.297 | 70.882 | 72.768 | 71.49 | 72.484 | 74.811 | 74.739 | 66.029 | 66.119 |
| 13..24 | 65.807 | 71.586 | 71.053 | 72.508 | 72.806 | 77.326 | 77.826 | 71.65 | 72.88 | 77.7 | 77.84 | 77.959 |

Reading # 117 - Jun 10 18:29:55**Pressures (PSIA)**

1.. 3 74.707 74.689 14.27

Dew Points (°F)

1.. 6 67.903 73.866 66.69 68.103 69.31 65.717

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.704 | 0 | 70.217 | 70.297 | 70.9 | 72.759 | 71.49 | 72.512 | 74.801 | 74.739 | 66.029 | 66.119 |
| 13..24 | 65.807 | 71.605 | 71.063 | 72.498 | 72.792 | 77.303 | 77.803 | 71.65 | 72.889 | 77.677 | 77.808 | 77.945 |

Reading # 118 - Jun 10 18:44:55**Pressures (PSIA)**

1.. 3 74.705 74.688 14.27

Dew Points (°F)

1.. 6 67.979 73.94 66.609 68.102 69.387 65.793

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.704 | 0 | 70.231 | 70.297 | 70.9 | 72.759 | 71.499 | 72.503 | 74.811 | 74.739 | 66.038 | 66.11 |
| 13..24 | 65.793 | 71.614 | 71.053 | 72.508 | 72.815 | 77.28 | 77.771 | 71.659 | 72.88 | 77.645 | 77.794 | 77.917 |

Reading # 119 - Jun 10 18:59:56**Pressures (PSIA)**

1.. 3 74.702 74.686 14.268

Dew Points (°F)

1.. 6 67.899 74.335 66.609 68.106 69.223 65.793

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.714 | 0 | 70.227 | 70.315 | 70.905 | 72.773 | 71.518 | 72.489 | 74.815 | 74.743 | 66.043 | 66.114 |
| 13..24 | 65.803 | 71.623 | 71.058 | 72.535 | 72.81 | 77.257 | 77.766 | 71.655 | 72.894 | 77.617 | 77.766 | 77.889 |

Reading # 120 - Jun 10 19:05:20**Pressures (PSIA)**

1.. 3 74.701 74.684 14.27

Dew Points (°F)

1.. 6 67.9 74.335 66.685 68.104 69.144 65.793

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.709 | 0 | 70.245 | 70.315 | 70.914 | 72.773 | 71.504 | 72.517 | 74.806 | 74.73 | 66.033 | 66.124 |
| 13..24 | 65.812 | 71.609 | 71.067 | 72.521 | 72.806 | 77.257 | 77.752 | 71.659 | 72.903 | 77.612 | 77.752 | 77.87 |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93

Reading # 121 - Jun 10 19:15:28

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 74.699 | 74.681 | 14.272 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 67.9 | 73.942 | 66.69 | 68.101 | 69.226 | 65.79 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.714 | 0 | 70.227 | 70.306 | 70.91 | 72.768 | 71.508 | 72.521 | 74.787 | 74.734 | 66.024 | 66.119 |
| 13..24 | 65.793 | 71.614 | 71.049 | 72.503 | 72.81 | 77.238 | 77.724 | 71.659 | 72.88 | 77.603 | 77.743 | 77.861 |

Reading # 122 - Jun 10 19:25:28

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 74.695 | 74.679 | 14.272 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 67.979 | 74.259 | 66.687 | 68.104 | 69.311 | 65.799 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.704 | 0 | 70.231 | 70.31 | 70.91 | 72.777 | 71.522 | 72.503 | 74.811 | 74.725 | 66.038 | 66.11 |
| 13..24 | 65.793 | 71.614 | 71.063 | 72.517 | 72.815 | 77.22 | 77.729 | 71.687 | 72.908 | 77.584 | 77.738 | 77.843 |

Reading # 123 - Jun 10 19:35:29

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 74.692 | 74.676 | 14.272 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 67.897 | 74.411 | 66.685 | 68.025 | 69.232 | 65.79 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.704 | 0 | 70.255 | 70.297 | 70.91 | 72.768 | 71.522 | 72.447 | 74.778 | 74.739 | 66.029 | 66.119 |
| 13..24 | 65.793 | 71.614 | 71.072 | 72.526 | 72.815 | 77.206 | 77.696 | 71.682 | 72.889 | 77.58 | 77.71 | 77.819 |

Reading # 124 - Jun 10 19:45:29

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 74.69 | 74.673 | 14.274 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 67.972 | 74.262 | 66.687 | 68.101 | 69.147 | 65.793 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.714 | 0 | 70.25 | 70.324 | 70.919 | 72.773 | 71.527 | 72.466 | 74.797 | 74.734 | 66.033 | 66.128 |
| 13..24 | 65.812 | 71.632 | 71.058 | 72.535 | 72.82 | 77.192 | 77.692 | 71.673 | 72.894 | 77.552 | 77.701 | 77.792 |

Reading # 125 - Jun 10 19:55:29

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 74.688 | 74.67 | 14.275 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 67.896 | 74.093 | 66.687 | 68.028 | 69.065 | 65.722 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.704 | 0 | 70.241 | 70.329 | 70.91 | 72.768 | 71.522 | 72.494 | 74.787 | 74.716 | 66.029 | 66.11 |
| 13..24 | 65.807 | 71.637 | 71.053 | 72.54 | 72.824 | 77.173 | 77.664 | 71.682 | 72.912 | 77.547 | 77.687 | 77.787 |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93**Reading # 126 - Jun 10 20:05:30**

| | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|--|
| | | | | | | | | | | | | | Pressures (PSIA) | |
| 1.. 3 | 74.685 | 74.667 | 14.276 | | | | | | | | | | | |
| | | | | | | | | | | | | | Dew Points (°F) | |
| 1.. 6 | 67.899 | 74.096 | 66.69 | 68.101 | 69.15 | 65.717 | | | | | | | | |
| | | | | | | | | | | | | | Temperatures (°F) | |
| 1..12 | 65.704 | 0 | 70.241 | 70.31 | 70.923 | 72.777 | 71.499 | 72.526 | 74.787 | 74.725 | 66.029 | 66.11 | | |
| 13..24 | 65.793 | 71.651 | 71.063 | 72.54 | 72.824 | 77.173 | 77.641 | 71.692 | 72.912 | 77.524 | 77.678 | 77.764 | | |

Reading # 127 - Jun 10 20:14:33

| | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|--|
| | | | | | | | | | | | | | Pressures (PSIA) | |
| 1.. 3 | 74.683 | 74.665 | 14.275 | | | | | | | | | | | |
| | | | | | | | | | | | | | Dew Points (°F) | |
| 1.. 6 | 67.899 | 74.57 | 66.686 | 68.106 | 69.146 | 65.794 | | | | | | | | |
| | | | | | | | | | | | | | Temperatures (°F) | |
| 1..12 | 65.695 | 0 | 70.255 | 70.31 | 70.923 | 72.768 | 71.508 | 72.526 | 74.787 | 74.716 | 66.038 | 66.119 | | |
| 13..24 | 65.784 | 71.637 | 71.063 | 72.563 | 72.838 | 77.164 | 77.618 | 71.701 | 72.908 | 77.51 | 77.659 | 77.782 | | |

Reading # 128 - Jun 10 20:25:21

| | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|--|
| | | | | | | | | | | | | | Pressures (PSIA) | |
| 1.. 3 | 74.68 | 74.662 | 14.276 | | | | | | | | | | | |
| | | | | | | | | | | | | | Dew Points (°F) | |
| 1.. 6 | 67.903 | 74.804 | 66.687 | 68.101 | 69.153 | 65.793 | | | | | | | | |
| | | | | | | | | | | | | | Temperatures (°F) | |
| 1..12 | 65.709 | 0 | 70.268 | 70.315 | 70.914 | 72.796 | 71.536 | 72.498 | 74.783 | 74.711 | 66.043 | 66.137 | | |
| 13..24 | 65.798 | 71.632 | 71.067 | 72.568 | 72.838 | 77.145 | 77.622 | 71.692 | 72.922 | 77.482 | 77.645 | 77.75 | | |

Reading # 129 - Jun 10 20:35:40

| | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|--|
| | | | | | | | | | | | | | Pressures (PSIA) | |
| 1.. 3 | 74.677 | 74.66 | 14.275 | | | | | | | | | | | |
| | | | | | | | | | | | | | Dew Points (°F) | |
| 1.. 6 | 67.903 | 74.571 | 66.684 | 68.098 | 69.068 | 65.795 | | | | | | | | |
| | | | | | | | | | | | | | Temperatures (°F) | |
| 1..12 | 65.718 | 0 | 70.259 | 70.324 | 70.928 | 72.782 | 71.536 | 72.549 | 74.774 | 74.72 | 66.033 | 66.114 | | |
| 13..24 | 65.798 | 71.656 | 71.067 | 72.554 | 72.852 | 77.136 | 77.604 | 71.701 | 72.917 | 77.492 | 77.65 | 77.745 | | |

Reading # 130 - Jun 10 20:45:48

| | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|--|
| | | | | | | | | | | | | | Pressures (PSIA) | |
| 1.. 3 | 74.673 | 74.657 | 14.275 | | | | | | | | | | | |
| | | | | | | | | | | | | | Dew Points (°F) | |
| 1.. 6 | 67.899 | 74.411 | 66.687 | 68.022 | 69.068 | 65.719 | | | | | | | | |
| | | | | | | | | | | | | | Temperatures (°F) | |
| 1..12 | 65.704 | 0 | 70.273 | 70.31 | 70.923 | 72.791 | 71.531 | 72.512 | 74.778 | 74.706 | 66.038 | 66.119 | | |
| 13..24 | 65.793 | 71.637 | 71.072 | 72.563 | 72.847 | 77.132 | 77.599 | 71.701 | 72.931 | 77.468 | 77.631 | 77.727 | | |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93

Reading # 131 - Jun 10 20:55:48

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 74.672 | 74.655 | 14.277 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 67.896 | 74.012 | 66.687 | 68.098 | 68.993 | 65.789 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.709 | 0 | 70.259 | 70.301 | 70.937 | 72.782 | 71.527 | 72.517 | 74.774 | 74.711 | 66.02 | 66.105 |
| 13..24 | 65.789 | 71.656 | 71.067 | 72.554 | 72.838 | 77.113 | 77.571 | 71.71 | 72.922 | 77.459 | 77.622 | 77.699 |

Reading # 132 - Jun 10 21:05:49

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 74.669 | 74.652 | 14.279 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 67.975 | 74.486 | 66.687 | 68.098 | 69.065 | 65.714 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.714 | 0 | 70.264 | 70.31 | 70.933 | 72.791 | 71.531 | 72.558 | 74.778 | 74.706 | 66.038 | 66.11 |
| 13..24 | 65.793 | 71.66 | 71.063 | 72.582 | 72.847 | 77.108 | 77.567 | 71.715 | 72.917 | 77.431 | 77.604 | 77.69 |

Reading # 133 - Jun 10 21:15:49

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 74.667 | 74.65 | 14.279 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 67.903 | 74.414 | 66.772 | 68.104 | 68.995 | 65.72 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.714 | 0 | 70.273 | 70.31 | 70.933 | 72.801 | 71.545 | 72.549 | 74.778 | 74.706 | 66.038 | 66.11 |
| 13..24 | 65.784 | 71.66 | 71.086 | 72.614 | 72.847 | 77.085 | 77.567 | 71.719 | 72.931 | 77.436 | 77.608 | 77.694 |

Reading # 134 - Jun 10 21:25:49

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 74.665 | 74.648 | 14.282 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 67.979 | 74.254 | 66.687 | 68.101 | 69.147 | 65.793 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.704 | 0 | 70.273 | 70.32 | 70.947 | 72.791 | 71.545 | 72.535 | 74.778 | 74.706 | 66.038 | 66.119 |
| 13..24 | 65.793 | 71.66 | 71.072 | 72.623 | 72.857 | 77.085 | 77.543 | 71.724 | 72.935 | 77.403 | 77.58 | 77.676 |

Reading # 135 - Jun 10 21:35:50

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1..3 | 74.662 | 74.645 | 14.28 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1..6 | 67.899 | 74.171 | 66.772 | 68.101 | 68.911 | 65.795 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.714 | 0 | 70.273 | 70.31 | 70.947 | 72.791 | 71.545 | 72.549 | 74.778 | 74.706 | 66.038 | 66.119 |
| 13..24 | 65.784 | 71.67 | 71.072 | 72.646 | 72.871 | 77.085 | 77.529 | 71.729 | 72.94 | 77.399 | 77.576 | 77.671 |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93

Reading # 136 - Jun 10 21:45:50

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.66 | 74.643 | 14.282 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 67.899 | 74.171 | 66.772 | 68.103 | 68.914 | 65.717 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.718 | 0 | 70.282 | 70.315 | 70.961 | 72.81 | 71.55 | 72.554 | 74.783 | 74.72 | 66.043 | 66.114 |
| 13..24 | 65.803 | 71.679 | 71.09 | 72.665 | 72.866 | 77.081 | 77.525 | 71.729 | 72.926 | 77.38 | 77.552 | 77.648 |

Reading # 137 - Jun 10 21:55:50

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.658 | 74.641 | 14.282 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 67.903 | 74.329 | 66.775 | 68.101 | 68.914 | 65.717 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.704 | 0 | 70.287 | 70.297 | 70.947 | 72.801 | 71.564 | 72.568 | 74.769 | 74.716 | 66.029 | 66.119 |
| 13..24 | 65.784 | 71.67 | 71.086 | 72.693 | 72.815 | 77.057 | 77.511 | 71.71 | 72.945 | 77.385 | 77.539 | 77.643 |

Reading # 138 - Jun 10 22:05:51

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.656 | 74.639 | 14.301 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 67.899 | 74.093 | 66.768 | 68.101 | 69.071 | 65.717 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.704 | 0 | 70.296 | 70.297 | 70.947 | 72.814 | 71.555 | 72.549 | 74.778 | 74.725 | 66.029 | 66.119 |
| 13..24 | 65.793 | 71.66 | 71.109 | 72.67 | 72.792 | 77.057 | 77.502 | 71.729 | 72.94 | 77.357 | 77.52 | 77.615 |

Reading # 139 - Jun 10 22:15:51

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.654 | 74.636 | 14.287 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 67.906 | 74.018 | 66.769 | 68.028 | 68.993 | 65.72 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.728 | 0 | 70.301 | 70.31 | 70.97 | 72.838 | 71.578 | 72.6 | 74.801 | 74.748 | 66.052 | 66.133 |
| 13..24 | 65.798 | 71.693 | 71.118 | 72.693 | 72.815 | 77.057 | 77.511 | 71.729 | 72.949 | 77.348 | 77.52 | 77.615 |

Reading # 140 - Jun 10 22:25:51

| | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressures (PSIA) | | | | | | | | | | | | |
| 1.. 3 | 74.651 | 74.634 | 14.289 | | | | | | | | | |
| Dew Points (°F) | | | | | | | | | | | | |
| 1.. 6 | 67.906 | 74.093 | 66.772 | 68.104 | 68.838 | 65.72 | | | | | | |
| Temperatures (°F) | | | | | | | | | | | | |
| 1..12 | 65.704 | 0 | 70.296 | 70.297 | 70.956 | 72.814 | 71.564 | 72.6 | 74.778 | 74.725 | 66.029 | 66.133 |
| 13..24 | 65.784 | 71.683 | 71.109 | 72.702 | 72.815 | 77.02 | 77.478 | 71.733 | 72.959 | 77.343 | 77.501 | 77.611 |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93**Reading # 141 - Jun 10 22:35:52****Pressures (PSIA)**

1.. 3 74.649 74.632 14.29

Dew Points (°F)

1.. 6 67.899 74.568 66.768 68.103 68.838 65.719

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.709 | 0 | 70.278 | 70.292 | 70.961 | 72.819 | 71.569 | 72.563 | 74.783 | 74.72 | 66.033 | 66.114 |
| 13..24 | 65.775 | 71.683 | 71.114 | 72.684 | 72.796 | 77.025 | 77.474 | 71.747 | 72.968 | 77.343 | 77.492 | 77.602 |

Reading # 142 - Jun 10 22:45:52**Pressures (PSIA)**

1.. 3 74.647 74.63 14.312

Dew Points (°F)

1.. 6 67.903 74.489 66.768 68.098 68.993 65.717

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.704 | 0 | 70.306 | 70.297 | 70.979 | 72.833 | 71.564 | 72.6 | 74.778 | 74.725 | 66.029 | 66.142 |
| 13..24 | 65.793 | 71.683 | 71.118 | 72.693 | 72.815 | 77.02 | 77.469 | 71.747 | 72.959 | 77.329 | 77.469 | 77.578 |

Reading # 143 - Jun 10 22:55:52**Pressures (PSIA)**

1.. 3 74.645 74.628 14.295

Dew Points (°F)

1.. 6 67.903 74.174 66.768 68.103 68.908 65.722

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.704 | 0 | 70.306 | 70.32 | 70.979 | 72.814 | 71.587 | 72.591 | 74.787 | 74.739 | 66.029 | 66.142 |
| 13..24 | 65.793 | 71.693 | 71.109 | 72.711 | 72.847 | 77.011 | 77.455 | 71.733 | 72.959 | 77.343 | 77.469 | 77.578 |

Reading # 144 - Jun 10 23:05:53**Pressures (PSIA)**

1.. 3 74.643 74.626 14.294

Dew Points (°F)

1.. 6 67.964 74.332 66.85 68.103 68.763 65.717

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.714 | 0 | 70.296 | 70.297 | 70.988 | 72.833 | 71.578 | 72.623 | 74.778 | 74.739 | 66.029 | 66.133 |
| 13..24 | 65.784 | 71.711 | 71.127 | 72.702 | 72.838 | 77.011 | 77.446 | 71.756 | 72.959 | 77.32 | 77.469 | 77.569 |

Reading # 145 - Jun 10 23:15:53**Pressures (PSIA)**

1.. 3 74.64 74.624 14.295

Dew Points (°F)

1.. 6 67.904 74.331 66.768 68.103 68.91 65.718

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.704 | 0 | 70.306 | 70.297 | 70.979 | 72.833 | 71.578 | 72.591 | 74.778 | 74.725 | 66.038 | 66.133 |
| 13..24 | 65.793 | 71.702 | 71.127 | 72.702 | 72.838 | 76.988 | 77.446 | 71.752 | 72.973 | 77.311 | 77.455 | 77.574 |

Calibrated Instrument Data

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Oconee Nuclear Station
Unit 2 - 6/93

Reading # 146 - Jun 10 23:25:53

Pressures (PSIA)

1.. 3 74.639 74.621 14.294

Dew Points (°F)

1.. 6 67.903 74.574 66.848 68.031 68.836 65.72

Temperatures (°F)

| | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1..12 | 65.723 | 0 | 70.306 | 70.297 | 70.998 | 72.833 | 71.578 | 72.6 | 74.778 | 74.739 | 66.029 | 66.119 |
| 13..24 | 65.793 | 71.711 | 71.127 | 72.725 | 72.857 | 76.988 | 77.423 | 71.766 | 72.968 | 77.297 | 77.469 | 77.555 |

APPENDIX F

Local Leakage Rate Testing Conducted Since Last ILRT

Reports:

- EOC-12 Type C Summary
- EOC-13 Type C Summary
- Type B Leakage Summary Since Last ILRT
- EOC-12 Type B & C Test Failures
- EOC-13 Type B & C Test Failures

Oconee Nuclear Station Unit 2 EOC12 Type C Summary

| U n i t | P e n | Inside Path Valves | Leak Rate (sccm) | Outside Path Valves | Leak Rate (sccm) | Max Path Leak Rate (sccm) |
|------------------|-------------|---|----------------------------|--|---------------------|---------------------------------|
| 2 | 2 | 2FDW-105 | 20 | 2FDW-106 2FDW-117 2FDW-118 2FDW-119 | 65 | 65 |
| 2 | 3 | 2CC-20 2CC-21 2CC-22 2CC-23 | 20 20 20 20 | 2CC-24 | 20 | 80 |
| 2 | 4& 43 | 2FDW-329 2FDW-331 | 21 | 2FDW-103 2FDW-176 2FDW-334 2FDW-104 2FDW-177 2FDW-335 | 20 20 | 40 |
| 2 | 5a | | | 2LWD-28 2LWD-1 2LWD-2 2LWD-27 2LWD-29 | 20 20 | 40 |
| 2 | 5b | 2RC-164 | 20 | 2RC-165 | 20 | 20 |
| 2 | 6 | 2HP-3 2HP-4 2HP-83 | 50 20 20 | 2HP-5 2HP-36 2HP-37 | 66 | 90 |
| 2 | 7 | 2HP-20 2HP-420 | 420 20 | 2HP-21 2HP-68 2HP-69 | 20 | 440 |
| 2 | 10a | 2HP-146 | 20 | 2HP-216 2HP-218 2HP-286 | 20 20 | 40 |
| 2 | 10b | 2HP-147 | 816 | 2HP-223 2HP-225 2HP-389 | 20 513 | 816 |
| 2 | 11a | Transfer Tube | 20 | | | 20 |
| 2 | 11b | 2SF-82 2SF-98 2SF-99 | 20 20 31 | 2SF-97 | 25 | 71 |
| 2 | 11c | 2SF-74 | 20 | 2SF-72 2SF-73 | 20 | 20 |
| 2 | 12a | Transfer Tube | 20 | | | 20 |
| 2 | 12b | 2SF-425 2SF-423 2SF-426 2SF-417 2SF-405 | 20 20 20 20 20 | 2SF-428 | 20 | 100 |

Oconee Nuclear Station Unit 2 EOC12 Type C Summary

| U n i t | P e n | Inside Path Valves | Leak Rate (sccm) | Outside Path Valves | Leak Rate (sccm) | Max Path Leak Rate (sccm) |
|------------------|-------------|--------------------------------------|----------------------|---------------------------------------|---------------------|---------------------------------|
| 2 18 | | 2GWD-10 | 20 | | | 40 |
| | | 2GWD-11 2GWD-12 2GWD-13 | 20 | | | |
| 2 19 | | | | 2PR-29 | 20 | 3630 |
| | | | | 2PR-5 2PR-6 | 3610 | |
| 2 20 | | | | 2PR-27 | 29 | 9329 |
| | | | | 2PR-1 2PR-2 | 9300 | |
| 2 22 | | | | 2LPSW-145 | 113 | 903 |
| | | | | 2LPSW-15 2LPSW-144 2PG-190 | 790 | |
| 2 23a | | | | 2HP-209 | 20 | 40 |
| | | | | 2HP-145 2HP-211 2HP-390 | 20 | |
| 2 23b | | | | 2HP-202 | 20 | 70 |
| | | | | 2HP-144 2HP-204 2HP-454 | 50 | |
| 2 24 | | | | 2PR-81 2PR-84 | 20 20 | 40 |
| 2 29 | | | | 2CS-24 | 20 | 130 |
| | | | | 2CS-5 2CS-6 2CS-25 | 110 | |
| 2 38 | | 2CS-12 | 20 | 2CS-18 | 20 | 129 |
| | | | | 2CS-11 2CS-17 | 109 | |
| 2 39 | | 2CF-44 2CF-45 | 35 20 | 2CA-29 2CF-41 2HP-156 2N-131 | 20 | 55 |
| 2 41 | | 2IA-91 | 361 | 2IA-90 | 20 | 361 |
| 2 42 | | | | 2PR-87 2PR-90 | 34 20 | 54 |
| 2 44 | | 2CC-77 2CC-80 2CC-81 2CC-82 | 20 20 20 20 | 2CC-76 | 21 | 80 |
| 2 45a | | 2LRT-24 | 2 | 2LRT-25 | 2 | 2 |
| 2 45b | | 2LRT-39 | 2 | 2LRT-38 | 2 | 2 |
| 2 45c | | 2LRT-37 | 2 | 2LRT-36 | 2 | 2 |

Oconee Nuclear Station Unit 2 EOC12 Type C Summary

| U n i t | P e n | Inside Path Valves | Leak Rate (sccm) | Outside Path Valves | Leak Rate (sccm) | Max Path Leak Rate (sccm) |
|----------------------------|-------------|-----------------------|---------------------|--|---------------------|---------------------------------|
| 2 46 | | | | 2FW-66 | 20 | 50 |
| | | | | 2FW-64 2FW-65 | 30 | |
| 2 48 | | 2BA-33 | 111 | 2BA-5 | 118 | 118 |
| 2 51 | | | | 2LRT-54 | 101 | 121 |
| | | | | 2LRT-17 & Flange | 20 | |
| 2 53a | | 2CF-42 2CF-43 | 37 20 | 2CA-27 2CF-47 2HP-155 2N-129 | 21 | 57 |
| 2 53b | | 2N-246 2N-247 | 20 20 | 2N-363 | 20 | 40 |
| 2 54 | | | | 2CC-56 | 20 | 2090 |
| | | | | 2CC-7 2CC-8 2CC-54 2CC-55 | 2070 | |
| 2 55 | | 2DW-60 | 30 | 2DW-59 | 20 | 30 |
| 2 58a | | 2RC-5 2RC-6 | 36 20 | 2RC-7 2RC-49 2RC-50 2RC-51 | 20 | 56 |
| 2 58b | | 2FDW-107 | 20 | 2FDW-108 2FDW-122 2FDW-123 2FDW-124 | 20 | 20 |
| 2 59 | | 2CF-3 2CF-4 | 10 | 2CF-7 2CF-19 | 20 20 | 40 |
| 2 60 | | | | 2PR-24 | 20 | 40 |
| | | | | 2PR-7 2PR-8 2PR-23 2PR-59 2PR-68 | 20 | |
| 2 61 | | | | 2PR-25 | 20 | 40 |
| | | | | 2PR-9 2PR-10 2PR-60 | 20 | |
| Total Maximum Path Leakage | | | | | | 19431 |

Oconee Nuclear Station Unit 2 EOC13 Type C Summary

| Unit | Pen | Inside Path Valves | Leak Rate (sccm) | Outside Path Valves | Leak Rate (sccm) | Max Path Leak Rate (sccm) |
|------|----------|---|----------------------------|--|------------------|---------------------------|
| 2 | 2 | 2FDW-105 | 20 | 2FDW-106 2FDW-117 2FDW-118 2FDW-119 | 20 | 20 |
| 2 | 3 | 2CC-20 2CC-21 2CC-22 2CC-23 | 510 20 20 20 | 2CC-24 | 430 | 570 |
| 2 | 4& 43 | 2FDW-329 2FDW-331 | 23 | 2FDW-103 2FDW-176 2FDW-334 2FDW-104 2FDW-177 2FDW-335 | 20 80 | 100 |
| 2 | 5a | | | 2LWD-28 2LWD-1 2LWD-2 2LWD-27 2LWD-29 | 20 20 | 40 |
| 2 | 5b | 2RC-164 | 20 | 2RC-165 | 20 | 20 |
| 2 | 6 | 2HP-3 2HP-4 2HP-83 | 22 20 20 | 2HP-5 2HP-36 2HP-37 | 37 | 62 |
| 2 | 7 | 2HP-20 2HP-420 | 38 20 | 2HP-21 2HP-68 2HP-69 | 106 | 106 |
| 2 | 10a | 2HP-146 | 20 | 2HP-216 2HP-218 2HP-286 | 20 20 | 40 |
| 2 | 10b | 2HP-147 | 85 | 2HP-223 2HP-225 2HP-389 | 20 20 | 85 |
| 2 | 11a | Transfer Tube | 20 | | | 20 |
| 2 | 11b | 2SF-82 2SF-98 2SF-99 | 20 20 54 | 2SF-97 | 23 | 94 |
| 2 | 11c | 2SF-74 | 32 | 2SF-72 2SF-73 | 20 | 32 |
| 2 | 12a | Transfer Tube | 20 | | | 20 |
| 2 | 12b | 2SF-425 2SF-423 2SF-426 2SF-417 2SF-405 | 20 20 20 20 20 | 2SF-428 | 20 | 100 |

Oconee Nuclear Station Unit 2 EOC13 Type C Summary

| U n i t | P e n | Inside Path Valves | Leak Rate (sccm) | Outside Path Valves | Leak Rate (sccm) | Max Path Leak Rate (sccm) |
|------------------|-------------|--------------------------------------|----------------------|---------------------------------------|---------------------|---------------------------------|
| 2 18 | | 2GWD-10 | 20 | | | 58 |
| | | 2GWD-11 2GWD-12 2GWD-13 | 38 | | | |
| 2 19 | | | | 2PR-29 | 20 | 5090 |
| | | | | 2PR-5 2PR-6 | 5070 | |
| 2 20 | | | | 2PR-27 | 20 | 12070 |
| | | | | 2PR-1 2PR-2 | 12050 | |
| 2 22 | | | | 2LPSW-145 | 102 | 827 |
| | | | | 2LPSW-15 2LPSW-144 2PG-190 | 725 | |
| 2 23a | | | | 2HP-209 | 20 | 40 |
| | | | | 2HP-145 2HP-211 2HP-390 | 20 | |
| 2 23b | | 2HP-144 | 20 | 2HP-202 | 20 | 83 |
| | | | | 2HP-204 2HP-454 | 63 | |
| 2 24 | | | | 2PR-81 2PR-84 | 20 20 | 40 |
| 2 29 | | | | 2CS-24 | 20 | 265 |
| | | | | 2CS-5 2CS-6 2CS-25 | 245 | |
| 2 38 | | 2CS-12 | 108 | 2CS-18 | 20 | 108 |
| | | | | 2CS-11 2CS-17 | 43 | |
| 2 39 | | 2CF-44 2CF-45 | 20 20 | 2CA-29 2CF-41 2HP-156 2N-131 | 20 | 40 |
| 2 41 | | 2IA-91 | 61 | 2IA-90 | 77 | 77 |
| 2 42 | | | | 2PR-87 2PR-90 | 20 20 | 40 |
| 2 44 | | 2CC-77 2CC-80 2CC-81 2CC-82 | 20 20 20 20 | 2CC-76 | 20 | 80 |
| 2 45a | | 2LRT-24 | 20 | 2LRT-25 | 20 | 20 |
| 2 45b | | 2LRT-39 | 20 | 2LRT-38 | 20 | 20 |
| 2 45c | | 2LRT-37 | 20 | 2LRT-36 | 20 | 20 |

Oconee Nuclear Station Unit 2 EOC13 Type C Summary

| U n i t | P e n | Inside Path Valves | Leak Rate (sccm) | Outside Path Valves | Leak Rate (sccm) | Max Path Leak Rate (sccm) |
|------------------|-------------|-----------------------|-----------------------------------|--|---------------------|---------------------------------|
| 2 | 46 | | | 2FW-66 | 20 | 69 |
| | | | | 2FW-64 2FW-65 | 49 | |
| 2 | 48 | 2BA-172 | 215 | 2BA-171 | 107 | 215 |
| 2 | 51 | | | 2LRT-54 | 20 | 44 |
| | | | | 2LRT-17 & Flange | 24 | |
| 2 | 53a | 2CF-42 2CF-43 | 20 20 | 2CA-27 2CF-47 2HP-155 2N-129 | 20 | 40 |
| 2 | 53b | 2N-246 2N-247 | 351 20 | 2N-363 | 289 | 371 |
| 2 | 54 | | | 2CC-56 | 67 | 357 |
| | | | | 2CC-7 2CC-8 2CC-54 2CC-55 | 290 | |
| 2 | 55 | 2DW-60 | 20 | 2DW-59 | 20 | 20 |
| 2 | 58a | 2RC-5 2RC-6 | 20 20 | 2RC-7 2RC-49 2RC-50 2RC-51 | 20 | 40 |
| 2 | 58b | 2FDW-107 | 20 | 2FDW-108 2FDW-122 2FDW-123 2FDW-124 | 20 | 20 |
| 2 | 59 | 2CF-3 2CF-4 | 4 | 2CF-7 2CF-19 | 20 20 | 40 |
| 2 | 60 | | | 2PR-24 | 20 | 40 |
| | | | | 2PR-7 2PR-8 2PR-23 2PR-59 2PR-68 | 20 | |
| 2 | 61 | | | 2PR-25 | 20 | 40 |
| | | | | 2PR-9 2PR-10 2PR-60 | 20 | |
| | | | Total Maximum Path Leakage | | | 21483 |

Type B Leak Rate Testing Since Last ILRT

| Penetration | Description | Test Date | Measured Leakage (sccm) |
|---------------------------------|---------------------------------|------------------|--------------------------------|
| 90 | Personnel Hatch | 5-21-91 | 0 |
| | | 11-19-91 | 5250 |
| | | 2-27-92 | 5410 |
| | | 10-6-92 | 2510 |
| | | 4-13-93 | 3447 |
| | | 6-18-93 | 247 |
| 91 | Equipment Hatch O-Ring | 2-24-92 | 2 |
| | | 6-8-93 | 3 |
| 92 | Emergency Personnel Hatch | 4-16-91 | 1500 |
| | | 10-14-91 | 893 |
| | | 2-22-92 | 645 |
| | | 8-22-92 | 670 |
| | | 4-12-93 | 126 |
| | | 6-5-93 | 330 |
| | | 6-15-93 | 1986 |
| Groups 101,102,103 104 & 105 | Electrical Penetrations O-Rings | 4-21-92 | 63 |
| | | 6-17-93 | 197 |

Local Leak Rate Test Failures

OC 12

| Pen No. | Valve No. | Test Date | Cause of Failure | Leak Rate (sccm) | Repair |
|---------|----------------|-----------|------------------|----------------------|--------------------|
| 3 | 2CC-20 | 1-17-92 | Seat leak | Would not pressurize | Replaced valve |
| 3 | 2CC-24 | 1-17-92 | Seat leak | Would not pressurize | Replaced valve |
| 20 | 2PR-1 2PR-2 | 2-26-92 | Hub seal leak | 9300 | No repair |
| 46 | 2FW-64 | 1-24-92 | Seat leak | Would not pressurize | Replaced diaphragm |

Local Leak Rate Test Failures

OC 13

| Pen No. | Valve No. | Test Date | Cause of Failure | Leak Rate (sccm) | Repair |
|---------|------------------|-----------|------------------|----------------------|----------------------------|
| 2 | 2FDW-105 | 5-26-93 | Seat leak | 140 | Replaced valve |
| 5a | 2LWD-1 2LWD-2 | 5-29-93 | Seat leak | 650 | Removed trash from seat |
| 5b | 2RC-164 | 5-27-93 | Seat leak | Would not pressurize | Removed Boron from seat |
| 5b | 2RC-165 | 5-22-93 | Seat leak | 445 | Removed Boron from seat |
| 10b | 2HP-223 | 6-14-93 | Seat leak | 400 | Replaced valve |
| 20 | 2PR-1 2PR-2 | 6-9-93 | Hub seal leak | 12050 | No repairs |
| 23b | 2HP-144 | 5-23-93 | Seat leak | 1085 | Replaced valve |
| 41 | 2IA-91 | 5-5-93 | Seat Leak | Would not pressurize | Rebuilt valve |
| 44 | 2CC-76 | 5-7-93 | Seat Leak | Would not pressurize | Rebuilt valve |
| 44 | 2CC-77 | 5-7-93 | Seat leak | Would not pressurize | Rebuilt valve |
| 51 | 2LRT-54 | 5-7-93 | Seat leak | 184 | Rebuilt valve |