

GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT
UNIT 2

FIRST PERIODIC
REACTOR CONTAINMENT BUILDING
INTEGRATED LEAKAGE RATE TEST
JUNE 1992
FINAL REPORT

Prepared by
Southern Company Services, Inc.

9207280278 920720
PDR ADOCK 05000425
P PDR

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1.0 INTRODUCTION

The First Periodic Integrated Leakage Rate Test (ILRT) at Georgia Power Company's Vogtle Electric Generating Plant (VEGP) Unit 2 was performed on April 19-20, 1992. The ILRT was performed as required by 10CFR50 Appendix J (Reference 1) and the Vogtle Final Safety Analysis Report (FSAR) (Reference 4) to demonstrate that leakage through the containment boundary does not exceed the VEGP Technical Specification (Reference 2) limit. The test was performed in accordance with Procedure VEGP 28329-2 Revision 3 (Reference 3). The following documentation is retained at the site along with the official test copy of the procedure:

- o systems status (lineup)
- o event log
- o instrumentation validation (calibrations, Instrument Selection Guide, etc.)
- o temperature stabilization data
- o local leak rate tests
- o integrated leakage rate data
- o quality assurance
- o verification leakage rates

A summary of general plant information as related to the Integrated Leakage Rate Test is provided in Appendix IV.

2.0 SUMMARY

The First Periodic Integrated Leakage Rate Test for the VEGP Unit 2 containment was successfully completed at 10:40 p.m. (all times EST) on April 19, 1992. The duration of the test was 8.75 hours. The verification test was completed on April 20, 1992.

The results of the test follow:

Leakage Rate (weight %/day)

Total Time Analysis

| <u>95% Upper Confidence Limit (UCL) Total Time Leakage Rate</u> | <u>Acceptance Limit (0.75 La)</u> |
|---|---------------------------------------|
| 0.1377 | 0.1500 |

| <u>Extrapolated Total Time Calculated Leakage Rate</u> | <u>Acceptance Limit (0.75 La)</u> |
|--|---------------------------------------|
| < 0.0209 | 0.1500 |

| <u>Mean of Measured Leakage Rates</u> | <u>Acceptance Limit (La - max allowable leakage rate)</u> |
|---|---|
| 0.0740 | 0.2000 |

Leakage penalties are added to the above 95 percent total time leakage rate to account for penetrations in nonstandard alignment and for water inventory change. Total penalties amounted to a leakage of 0.0037 weight percent/day. This results in a final as-left leakage rate of 0.1410 weight percent/day, which is less than the acceptance limit of 0.1500 weight percent/day.

To determine the as-found leakage rate, the 0.0097 weight percent/day minimum pathway improvement made during the local leakage rate testing program is added to the 0.1410 weight percent/day as-left UCL. This results in a final as-found leakage rate of 0.1507 weight percent/day which is less than the acceptance limit of 0.2000 weight percent/day.

3.0 METHODOLOGY

3.1 Leakage Rate Calculations

Test methods and procedures are specified in ANSI N45.4-1972 (Reference 6) and in BN-TOP-1 (Reference 7). ANSI N45.4 is cited in 10CFR50 Appendix J, and BN-TOP-1 is an alternative method acceptable to the USNRC.

Reference 7 describes the total time test which is used for Type A tests of a duration less than 24 hours. Since the Type A test described in this report was less than 24 hours, the total time calculations were used to determine leakage rate.

Reference 1 allows leakage rate calculations to be performed using the mass point method defined in ANSI/ANS 56.8-1987 (Reference 5). The Type A test must have a duration of at least 24 hours to use this methodology per Reference 1. Mass point results are provided in this report for information only.

Data from the instrumented containment is reduced by direct application of the ideal gas law, $PV = wRT$, to calculate air mass at each data point. The change in air mass provides information to develop the leakage rate.

The total time data analysis technique is based on the premise that the leakage rate varies linearly with time. A measured leakage rate is calculated as the initial air mass minus current air mass divided by current time minus initial time. A straight line is then fitted to the measured rate versus time data. The calculated leakage rate is defined as the ordinate of this line at the end of the test.

The total time test has three acceptance criteria. First, the end-of-test leakage rate 95 percent UCL must be less than the acceptance leakage rate ($0.75 L_a$). Second, the calculated leakage rate extrapolated to a 24-hour test duration must be less than the acceptance leakage rate ($0.75 L_a$). Third, the mean of the measured leakage rates over the final 5 hours of the test must be less than the maximum allowable leakage rate (L_a).

3.2 Test Measurements

Thirty dry-bulb and six dew point temperature sensors located inside containment were used to collect information for leakage rate calculations. These were located at approximately equally spaced elevations representing horizontally sliced volume fractions. Sensor locations and volume fractions (Table 1) were established by considering temperature/dew point distributions and the containment free volume.

Since both dry-bulb and dew point temperatures tend to exhibit a vertical stratification at the completion of pressurization and throughout the test, sensors were set at approximately equally spaced elevations. The volume associated with each sensor was taken as a horizontal slice through the containment with the sensor at its approximate vertical centroid. The possibility of an unusual in-plane temperature distribution was accounted for by arranging sensors in a spiral configuration. The bearing of each sensor was advanced approximately 90 degrees (dry-bulb) or 180 degrees (dew point) from that of the sensor above it. Above the refueling floor, the radius was set such that one-half of the horizontal slice area was inside the spiral surface and the other half outside. Below the refuel floor, sensors were positioned about midway between the secondary shield and the liner. One dry-bulb sensor was suspended in the refuel cavity. Sensors above the refuel floor were suspended from spray rings and structural steel. Those below the refuel floor were suspended from grating, piping, and structural steel.

Dry-bulb temperatures were measured using 100-Ohm platinum resistance temperature detectors (RTDs). Dew point temperatures were measured using optical chilled mirror dew point hygrometers. These devices use a direct-measuring sensor automatically held at the dew point temperature by an optical system. This technique is a primary measurement of the water vapor content of the air. The mirror temperature represents the true dew point temperature and is measured by an imbedded precision platinum resistance thermometer.

Absolute pressure was measured using a vibrating cylinder element sensor connected through tubing to a containment penetration. The change in pressure during an ILRT is quite small relative to the absolute pressure. The pressure device used has an accuracy of ± 0.015 percent RDG, ± 0.002 percent Full Scale and a repeatability of ± 0.001 percent Full Scale.

A data logger was used to collect data at 15-minute intervals. Information from the RTDs, dew point sensors, and pressure indicators was transferred from the data logger to the ILRT computer for analysis. The data system generated a printed tape record of each data set transmitted to the computer.

The ILRT computer was an IBM PC compatible. A compiled Basic program as described in Appendix I was run on the computer.

The imposed leakage rate for the verification test was measured using a float type flowmeter.

All instrumentation was calibrated prior to the ILRT. Instrumentation characteristics and calibration information is summarized in Appendix III. Calibration documents are included with the official test copy of the procedure.

4.0 TEST PROCEDURE

4.1 Initial Conditions

A general inspection of the accessible interior and exterior surfaces of the containment building was performed prior to the ILRT. No repairs or adjustments were made to the containment after initiation of the inspection so that the building could be tested as close as practical to the "as is" condition. All Type B and C local leak rate tests (Appendix II) were completed prior to the inspection. The inspection uncovered no evidence of structural deterioration which would affect the containment structural integrity or leak-tightness.

Plant systems were aligned for the ILRT as specified in the plant procedure. Isolation valves, except those in systems required to maintain the plant in a safe condition and those systems used to conduct the ILRT, were set as close as possible to post-LOCA positions specified in the FSAR. Any valves deviating from FSAR positions are listed and justified in the ILRT procedure.

For those systems or penetrations that were in service or isolated during the test, a penalty addition must be made to the Type A test results. The penalty addition is the sum of the minimum pathway leakages for those penetrations. Penalties were added for the following nonstandard alignments: penetrations 31, 49, 68, 87 and the pressurization header.

Piping was vented and drained to expose valve seats per post-LOCA scenarios. All sources of gas at pressures above containment test pressure were isolated or vented to prevent leakage into the containment during the ILRT.

A temperature/dew point survey was performed, with fans off, to confirm the placement locations of the sensors. An in-situ test on the sensors was performed to demonstrate the proper functioning of the sensors and the data collection system. Resistance temperature detector (RTD) in-situ tests were done using an ice bath (32 degrees F) and verifying that temperature at the data system. Dew point in-situ tests were done using a calibrated dew point instrument (spare dew cell) to measure dew point temperature at each sensor and comparing the results with dew point temperature at the data system. The survey showed that all instruments were operating within the required degree of accuracy.

The official test copy of the procedure documents the completion of the prerequisites for the test, including all exceptions to specified conditions.

4.2 Pressurization

The containment was pressurized using oil free compressors discharging through an after cooler/moisture separator and refrigerated air dryer. Twelve 1500-SCFM compressors were used. Compressor discharge to containment was routed through temporary piping to containment penetrations 68 and 87. Start of pressurization occurred at 10:39 p.m. on April 18, 1992. Pressurization was terminated when containment pressure reached 45.9 psig at 9:45 a.m. on April 19, 1992. This allowed a 0.9-psi margin for pressure drop to ensure the gage pressure would be at or above the 45-psig minimum pressure required for the test. Containment atmospheric condition data was recorded at 15-minute intervals.

4.3 Stabilization

Upon reaching IL&T test pressure, the containment was allowed to stabilize. Containment conditions were recorded at 15-minute intervals. Stabilization criteria were met at 2:00 p.m. on April 19, 1992. (See Table 2.) Actual change rates and maximum allowable change rates are listed below:

| <u>Rate</u> | <u>Actual</u> | <u>Maximum Allowable</u> |
|--|---|----------------------------------|
| Rate of change of average temperature is less than 1.0 degree F/hour averaged over the last 2 hours | $dT = -0.469$ | 1.0 degree ($-0.469 < 1.0$) |
| Rate of change of temperature changes less than 0.5 degrees F/hour/hour averaged over the last 2 hours | $d(dT) = 0.089$ | 0.5 degrees ($0.089 < 0.5$) |
| Rate of change of temperature averaged over the last hour does not deviate by more than 0.5 degrees F/hour from the average rate of change over the last 4 hours | $dT1 = -0.411$ $dT4 = -0.804$ $dT1 - dT4 = 0.393$ | 0.5 degrees ($0.393 < 0.5$) |

Containment temperature stabilization data is shown graphically in Figure 1.

4.4 Type A Test

Upon meeting the stabilization criteria, start of the Type A test was declared. The Type A test was started at 2:00 p.m. on April 19, 1992. Containment conditions were recorded at 15-minute intervals. The test was successfully concluded at 10:45 p.m. on April 19, 1992. Results of the test are recorded in section 5.1 of this report.

4.5 Verification

Following completion of the Type A test, a 14.88-SCFM verification leak was imposed, which is between the limits of 0.75 La and 1.25 La specified in Reference 7. This flow was calculated using the flowmeter calibration point closest to La, containment free air volume, and containment temperature and pressure at the end of the Type A test. Containment atmospheric conditions were allowed to stabilize for 1 hour. The verification test was then started at 12:00 midnight on April 20, 1992, and successfully completed at 4:30 a.m. on April 20, 1992. Results of the test are recorded in section 5.2.

Table 3 provides a summary of data collected during the stabilization, the Type A test, and the verification as discussed in sections 4.3, 4.4, and 4.5.

4.6 Depressurization

Containment depressurization was started at 4:48 a.m. on April 20, 1992, at a rate of no more than 10 psi per hour. Depressurization was completed at 11:50 a.m. on April 20, 1992. Containment and other plant systems modified for the ILRT were restored to normal plant operation configuration following depressurization.

5.0 RESULTS AND ANALYSIS

5.1 Total Time Results

The end-of-test leakage rate was within the three acceptance criteria stated in References 2 and 3. The end-of-test leakage rate values and acceptance limits are listed below.

Leakage Rate (weight %/day)

Total Time Analysis

| <u>95% UCL on Total Time Leakage Rate</u> | <u>Acceptance Limit (0.75 La)</u> |
|---|---------------------------------------|
| 0.1373 | 0.1500 |

| <u>Extrapolated Total Time Calculated Leakage Rate</u> | <u>Acceptance Limit (0.75 La)</u> |
|--|---------------------------------------|
| < 0.0209 | 0.1500 |

| <u>Mean of Measured Leakage Rates</u> | <u>Acceptance Limit (La - max allowable leakage rate)</u> |
|---|---|
| 0.0740 | 0.2000 |

Penalty additions and corrections must be applied to account for nonstandard alignment of valves and water level changes.

Penalty additions are the sum of the minimum pathway leakages determined for those penetrations which were not in a normal post-LOCA position. A summary of these penetrations and their contribution to the penalty addition are presented below.

| <u>Penetration</u> | <u>Description</u> | <u>As-left leakage (SCCM)</u> |
|------------------------------------|-------------------------------|-------------------------------|
| 49 | Seal Leakoff & Excess Letdown | 74.4 |
| 68 | ILRT Pressurization Line | 6.0 |
| 87 | ILRT Pressurization Line | 6.0 |
| 31 | Spare Electrical Penetration | 0.0 |
| - | Pressurization Header | 7108.0 |
| Total leakage (SCCM) | | 7194.4 |
| Total leakage (weight percent/day) | | 0.00334 |

The penalty addition associated with the pressurization header is the result of an incorrect valve line-up on the header. The leakage recorded is a conservative calculation of the effect of this incorrect line-up. The calculation and its documentation are in the official test copy of the plant procedure.

A water inventory correction to account for the increase in sump water level has been calculated. The calculation and its documentation are in the official test copy of the plant procedure. The water inventory correction is 0.00036 weight percent/day.

The VEGP Technical Specifications specify a maximum allowable leakage rate of 0.200 weight percent/day. In addition, the VEGP Technical Specifications require an as-left leakage rate of less than 75 percent of the maximum allowable rate. This is to allow a margin for deterioration of the leakage boundary. The 95 percent UCL leakage rate, penalty addition, final as-left leakage rate, and acceptance limit are listed below:

| | |
|-----------------------------------|----------------------------------|
| 95% UCL Leakage Rate | 0.1373 weight percent/day |
| Penalty Addition | 0.00334 weight percent/day |
| Water Inventory Correction | 0.00036 weight percent/day |
| <u>Final As-Left Leakage Rate</u> | <u>0.1410 weight percent/day</u> |
| Acceptance Limit (0.75 La) | 0.1500 weight percent/day |

Table 4 lists air mass and leakage rates (measured, calculated, and UCL). The extrapolated rate is determined by extrapolating the final 21 calculated leakage rates out to 24 hours. These final 21 points show a falling trend. The extrapolated rate is less than 0.0209 weight percent/day which is less than 0.1500 weight percent/day. The mean of the measured rates is 0.0740, weight percent/day which is less than 0.2000 weight percent/day.

Figures 2 through 6 present a graphic demonstration of the data collected during the Type A test. The air mass plot (Figure 2) shows lines whose slopes represent leakage rates. A least squares fit line is plotted through the actual test data which must lie above a line representing the acceptance limit. As seen in the graph, the actual leakage rate was less than the allowable rate. The temperature plot (Figure 3) shows the weighted average dry-bulb temperature of the containment air mass. The total temperature change was 1.988 degrees F over the 8.75-hour test period. The pressure plot (Figure 4) shows the containment total pressure and a total change of 0.225 psi. The vapor pressure plot (Figure 5) shows a total change in vapor pressure of 0.0054 psi. Figure 6 shows a plot of total time leakage rate data from Table 4. The leakage rate UCL must be below a line representing the acceptance limit. As seen from the graph, the UCL is below the allowable limit.

The as-found leakage rate is calculated by adding the as-left leakage rate to the penetration minimum pathway improvements made during the local leakage rate testing program. The minimum pathway improvements and calculated as-found UCL leakage rate are listed below.

Minimum Pathway Leakage

| <u>Penetration</u> | <u>As-found</u> | | <u>As-left</u> | |
|--------------------|-----------------|------|----------------|------|
| 23 | 220 | SCCM | 72.3 | SCCM |
| 36 | 661 | SCCM | 62.3 | SCCM |
| 38 | 433 | SCCM | 232 | SCCM |
| 39 | 245 | SCCM | 84.5 | SCCM |
| 40 | 10930 | SCCM | 399 | SCCM |
| 49 | 74.4 | SCCM | 11.9 | SCCM |
| 50 | 19.4 | SCCM | 1.2 | SCCM |
| 77 | 57.6 | SCCM | 50.5 | SCCM |
| 80 | 5460 | SCCM | 340 | SCCM |
| 81 | 3850 | SCCM | 27 | SCCM |
| 83 | 310 | SCCM | 38.4 | SCCM |
| 90 | 10.6 | SCCM | 10.5 | SCCM |
| 100 | 64.7 | SCCM | 50.8 | SCCM |
| EH | 13.9 | SCCM | 11.1 | SCCM |
| Sum | 22349.6 | SCCM | 1391.5 | SCCM |

Minimum pathway improvement = $22349.6 - 1391.5 = 20958.1$ SCCM
 = 0.0097 weight percent/day

| | |
|------------------------------------|----------------------------------|
| As-Left Leakage Rate | 0.1410 weight percent/day |
| Minimum Pathway Improvement | 0.0097 weight percent/day |
| <u>Final As-Found Leakage Rate</u> | <u>0.1507 weight percent/day</u> |
| Acceptance Limit (La) | 0.2000 weight percent/day |

5.2 Verification Results

The verification test introduced an additional leak of 14.88 SCFM. Verification test results are listed in Table 5 and graphed in Figures 7 and 8. The results of the verification are acceptable if the leakage rate calculated after imposition of the additional leak falls within the limits of $L_{am} + L_o \pm 0.25 L_a$ (which satisfies VEGP Technical Specification 4.6.1.2.c), where L_{am} is the previously calculated leakage rate, L_o is the imposed leakage, and L_a is the maximum allowable leakage rate. The final results and acceptance limits are listed below:

| | |
|----------------------------|---------------------------|
| Upper Limit Rate | 0.2665 weight percent/day |
| Total Time Calculated Rate | 0.2185 weight percent/day |
| Lower Limit Rate | 0.1665 weight percent/day |

5.3 Mass Point Results

Mass point results are included for information purposes in Tables 6 and 7. The mass point calculated rate is the slope of the line fitted to the air mass/time data by the method of least squares. The calculated mass point leakage rate is 0.0394 weight percent/day. The mass point UCL is 0.0473 weight percent/day < 0.1500 weight percent/day. Details on the mass point method are found in Reference 5.

6.0 REFERENCES

1. Code of Federal Regulations, Title 10, Part 50, Appendix J, Reactor Containment Leakage Testing for Water Cooled Power Reactors.
2. Vogtle Electric Generating Plant, Units 1 and 2, Technical Specifications.
3. Vogtle Electric Generating Plant, Procedure No. VEGP 28329-2 Revision 3, Containment Integrated Leak Rate Surveillance Test.
4. Vogtle Electric Generating Plant Units 1 and 2, Final Safety Analysis Report.
5. ANSI/ANS 56.8-1987, Containment System Leakage Testing Requirements.
6. ANSI N45.4-1972, Leakage Rate Testing of Containment Structures for Nuclear Reactors.
7. Bechtel Topical Report BN-TOP-1, Testing Criteria for Integrated Leakage Rate Testing of Primary Containment Structures for Nuclear Power Plants, Revision 1, 1972.

TABLES AND FIGURES

TABLE 1

DRYBULB AND DEW POINT TEMPERATURE SENSOR LOCATIONS

DRYBULB SENSORS

| <u>Sensor Number</u> | <u>Elevation (feet)</u> | <u>Azimuth (degrees)</u> | <u>Distance From Ctr of Ctmt (ft)</u> | <u>Volume Fractions</u> |
|--------------------------|-----------------------------|------------------------------|---|-----------------------------|
| 1 | 387 | 135 | 24 | 0.018 |
| 2 | 377 | 225 | 24 | 0.026 |
| 3 | 368 | 315 | 24 | 0.032 |
| 4 | 359 | 45 | 24 | 0.037 |
| 5 | 351 | 180 | 49 | 0.038 |
| 6 | 343 | 270 | 49 | 0.039 |
| 7 | 336 | 0 | 49 | 0.037 |
| 8 | 329 | 90 | 49 | 0.037 |
| 9 | 322 | 180 | 49 | 0.038 |
| 10 | 315 | 270 | 49 | 0.038 |
| 11 | 308 | 0 | 49 | 0.038 |
| 12 | 301 | 90 | 49 | 0.038 |
| 13 | 294 | 180 | 49 | 0.038 |
| 14 | 287 | 270 | 49 | 0.038 |
| 15 | 280 | 0 | 49 | 0.038 |
| 16 | 273 | 90 | 49 | 0.038 |
| 17 | 266 | 180 | 49 | 0.037 |
| 18 | 259 | 270 | 49 | 0.036 |
| 19 | 252 | 0 | 49 | 0.034 |
| 20 | 245 | 90 | 49 | 0.033 |
| 21 | 238 | 180 | 49 | 0.033 |
| 22 | 231 | 270 | 49 | 0.033 |
| 23 | 224 | 0 | 49 | 0.036 |
| 24 | 202 | 270 | 12 | 0.017 |
| 25 | 216 | 180 | 58 | 0.022 |
| 26 | 208 | 285 | 60 | 0.029 |
| 27 | 200 | 0 | 59 | 0.029 |
| 28 | 192 | 90 | 63 | 0.029 |
| 29 | 184 | 195 | 60 | 0.029 |
| 30 | 176 | 310 | 62 | 0.035 |
| | | | | <u>1.000</u> |

DEW POINT SENSORS

| | | | | |
|---|-----|-----|----|--------------|
| 1 | 368 | 225 | 24 | 0.151 |
| 2 | 329 | 0 | 49 | 0.189 |
| 3 | 294 | 90 | 49 | 0.190 |
| 4 | 259 | 180 | 48 | 0.178 |
| 5 | 227 | 0 | 60 | 0.119 |
| 6 | 196 | 195 | 59 | 0.173 |
| | | | | <u>1.000</u> |

TABLE 2

TEMPERATURE STABILIZATION REPORT

Start Time = 1000 4/9/92

* = stabilization criterion satisfied

| data set | elapsed time, hr | temp. deg F | dT ₁ avg dT (1 hr) | dT ₄ avg dT (4 hr) | dT ₁ -dT ₄ | dT avg (2 hr) | d(dT) avg (2 hr) |
|-------------|---------------------|----------------|-------------------------------------|-------------------------------------|----------------------------------|---------------------|------------------------|
| 1 | 0.00 | 87.030 | | | | | |
| 2 | 0.25 | 86.490 | | | | | |
| 3 | 0.50 | 86.092 | | | | | |
| 4 | 0.75 | 85.771 | | | | | |
| 5 | 1.00 | 85.504 | -1.527 | | | | |
| 6 | 1.25 | 85.279 | -1.211 | | | | |
| 7 | 1.50 | 85.084 | -1.008 | | | | |
| 8 | 1.75 | 85.911 | -0.860 | | | | |
| 9 | 2.00 | 84.751 | -0.753 | | | -1.140 | 0.760 |
| 10 | 2.25 | 84.611 | -0.669 | | | -0.940* | 0.514 |
| 11 | 2.50 | 84.474 | -0.611 | | | -0.809* | 0.369* |
| 12 | 2.75 | 84.347 | -0.564 | | | -0.712* | 0.281* |
| 13 | 3.00 | 84.225 | -0.526 | | | -0.640* | 0.204* |
| 14 | 3.25 | 84.116 | -0.494 | | | -0.581* | 0.173* |
| 15 | 3.50 | 84.012 | -0.462 | | | -0.536* | 0.137* |
| 16 | 3.75 | 83.910 | -0.437 | | | -0.501* | 0.117* |
| 17 | 4.00 | 83.813 | -0.411 | -0.804 | 0.393* | -0.469* | 0.089* |

TABLE 3 (STABILIZATION)

DATA SUMMARY REPORT

| data set | time | date | temperature deg F | pressure psia | vapor pressure psia | dry air mass lbm |
|-------------|------|------|----------------------|------------------|---------------------------|------------------------|
| 1 | 1000 | 419 | 87.0303 | 60.4154 | 0.4450 | 814232.46 |
| 2 | 1015 | 419 | 86.4899 | 60.3634 | 0.4442 | 814341.87 |
| 3 | 1030 | 419 | 86.0924 | 60.3235 | 0.4450 | 814381.54 |
| 4 | 1045 | 419 | 85.7710 | 60.2913 | 0.4439 | 814437.92 |
| 5 | 1100 | 419 | 85.5037 | 60.2643 | 0.4458 | 814444.61 |
| 6 | 1115 | 419 | 85.2792 | 60.2407 | 0.4465 | 814448.73 |
| 7 | 1130 | 419 | 85.0844 | 60.2198 | 0.4467 | 814452.64 |
| 8 | 1145 | 419 | 84.9113 | 60.2011 | 0.4478 | 814441.77 |
| 9 | 1200 | 419 | 84.7510 | 60.1839 | 0.4485 | 814437.82 |
| 10 | 1215 | 419 | 84.6105 | 60.1681 | 0.4494 | 814420.42 |
| 11 | 1230 | 419 | 84.4738 | 60.1533 | 0.4497 | 814418.45 |
| 12 | 1245 | 419 | 84.3469 | 60.1395 | 0.4500 | 814415.97 |
| 13 | 1300 | 419 | 84.2246 | 60.1265 | 0.4513 | 814404.14 |
| 14 | 1315 | 419 | 84.1162 | 60.1140 | 0.4523 | 814381.86 |
| 15 | 1330 | 419 | 84.0115 | 60.1022 | 0.4526 | 814373.39 |
| 16 | 1345 | 419 | 83.9095 | 60.0911 | 0.4534 | 814363.74 |
| 17 | 1400 | 419 | 83.8135 | 60.0803 | 0.4539 | 814353.67 |

TABLE 3 (TYPE A TEST)

DATA SUMMARY REPORT

| data set | time | date | temperature deg F | pressure psia | vapor pressure psia | dry air mass lbm |
|-------------|------|------|----------------------|------------------|---------------------------|------------------------|
| 1 | 1400 | 419 | 83.8135 | 60.0803 | 0.4539 | 814353.67 |
| 2 | 1415 | 419 | 83.7264 | 60.0701 | 0.4560 | 814315.60 |
| 3 | 1430 | 419 | 83.6367 | 60.0603 | 0.4540 | 814343.99 |
| 4 | 1445 | 419 | 83.5538 | 60.0508 | 0.4580 | 814280.25 |
| 5 | 1500 | 419 | 83.4621 | 60.0418 | 0.4580 | 814298.31 |
| 6 | 1515 | 419 | 83.3985 | 60.0328 | 0.4581 | 814269.47 |
| 7 | 1530 | 419 | 83.3209 | 60.0243 | 0.4586 | 814262.57 |
| 8 | 1545 | 419 | 83.2473 | 60.0139 | 0.4588 | 814255.68 |
| 9 | 1600 | 419 | 83.1817 | 60.0079 | 0.4595 | 814235.07 |
| 10 | 1615 | 419 | 83.1138 | 60.0000 | 0.4596 | 814227.69 |
| 11 | 1630 | 419 | 83.0532 | 59.9927 | 0.4597 | 814217.01 |
| 12 | 1645 | 419 | 82.9878 | 59.9857 | 0.4595 | 814221.47 |
| 13 | 1700 | 419 | 82.9296 | 59.9790 | 0.4599 | 814211.94 |
| 14 | 1715 | 419 | 82.8739 | 59.9724 | 0.4605 | 814197.33 |
| 15 | 1730 | 419 | 82.8071 | 59.9664 | 0.4602 | 814219.96 |
| 16 | 1745 | 419 | 82.7520 | 59.9602 | 0.4599 | 814221.03 |
| 17 | 1800 | 419 | 82.7030 | 59.9542 | 0.4602 | 814209.47 |
| 18 | 1815 | 419 | 82.6519 | 59.9484 | 0.4597 | 814212.37 |
| 19 | 1830 | 419 | 82.6038 | 59.9428 | 0.4595 | 814211.23 |
| 20 | 1845 | 419 | 82.5480 | 59.9372 | 0.4590 | 814225.03 |
| 21 | 1900 | 419 | 82.5000 | 59.9321 | 0.4598 | 814217.22 |
| 22 | 1915 | 419 | 82.4574 | 59.9269 | 0.4597 | 814210.69 |
| 23 | 1930 | 419 | 82.4104 | 59.9217 | 0.4595 | 814213.46 |
| 24 | 1945 | 419 | 82.3674 | 59.9165 | 0.4596 | 814204.87 |
| 25 | 2000 | 419 | 82.3246 | 59.9114 | 0.4596 | 814199.54 |
| 26 | 2015 | 419 | 82.2775 | 59.9066 | 0.4593 | 814208.54 |
| 27 | 2030 | 419 | 82.2272 | 59.9008 | 0.4595 | 814201.46 |
| 28 | 2045 | 419 | 82.1736 | 59.8948 | 0.4595 | 814200.31 |
| 29 | 2100 | 419 | 82.1230 | 59.8891 | 0.4599 | 814193.42 |
| 30 | 2115 | 419 | 82.0731 | 59.8836 | 0.4593 | 814201.02 |
| 31 | 2130 | 419 | 82.0300 | 59.8784 | 0.4596 | 814189.79 |
| 32 | 2145 | 419 | 81.9874 | 59.8735 | 0.4590 | 814194.99 |
| 33 | 2200 | 419 | 81.9373 | 59.8689 | 0.4594 | 814201.29 |
| 34 | 2215 | 419 | 81.8992 | 59.8643 | 0.4593 | 814197.51 |
| 35 | 2230 | 419 | 81.8630 | 59.8597 | 0.4595 | 814186.92 |
| 36 | 2245 | 419 | 81.8255 | 59.8553 | 0.4593 | 814184.63 |

TABLE 3 (VERIFICATION)

DATA SUMMARY REPORT

| data set | time | date | temperature deg F | pressure psia | vapor pressure psia | dry air mass lbm |
|-------------|------|------|----------------------|------------------|---------------------------|------------------------|
| 1 | 0 | 420 | 81.6413 | 59.8269 | 0.4589 | 814105.24 |
| 2 | 15 | 420 | 81.6074 | 59.8238 | 0.4584 | 814093.86 |
| 3 | 30 | 420 | 81.5766 | 59.8187 | 0.4585 | 814068.69 |
| 4 | 45 | 420 | 81.5497 | 59.8137 | 0.4583 | 814043.27 |
| 5 | 100 | 420 | 81.5168 | 59.8089 | 0.4581 | 814030.12 |
| 6 | 115 | 420 | 81.4826 | 59.8043 | 0.4581 | 814018.14 |
| 7 | 130 | 420 | 81.4544 | 59.7995 | 0.4578 | 813997.85 |
| 8 | 145 | 420 | 81.4240 | 59.7945 | 0.4578 | 813976.01 |
| 9 | 200 | 420 | 81.3974 | 59.7902 | 0.4574 | 813961.94 |
| 10 | 215 | 420 | 81.3690 | 59.7859 | 0.4575 | 813944.55 |
| 11 | 230 | 420 | 81.3379 | 59.7813 | 0.4575 | 813928.88 |
| 12 | 245 | 420 | 81.3145 | 59.7770 | 0.4574 | 813905.76 |
| 13 | 300 | 420 | 81.2866 | 59.7726 | 0.4572 | 813890.35 |
| 14 | 315 | 420 | 81.2612 | 59.7680 | 0.4566 | 813872.82 |
| 15 | 330 | 420 | 81.2394 | 59.7636 | 0.4566 | 813846.36 |
| 16 | 345 | 420 | 81.2115 | 59.7593 | 0.4566 | 813828.96 |
| 17 | 400 | 420 | 81.1856 | 59.7546 | 0.4558 | 813814.86 |
| 18 | 415 | 420 | 81.1592 | 59.7506 | 0.4558 | 813799.70 |
| 19 | 430 | 420 | 81.1318 | 59.7460 | 0.4554 | 813782.72 |

TABLE 4

TOTAL TIME LEAKAGE RATE REPORT

| data set | time | date | elapsed time (hrs) | dry air mass (lbm) | measured rate (%/day) | leakage rate (%/day) | UCL rate (%/day) |
|-------------|------|------|--------------------------|-----------------------|-----------------------------|----------------------------|------------------------|
| 1 | 1400 | 419 | 0.00 | 814353.67 | 0.0000 | 0.0000 | 0.0000 |
| 2 | 1415 | 419 | 0.25 | 814315.60 | 0.4488 | 0.4488 | 0.4488 |
| 3 | 1430 | 419 | 0.50 | 814343.99 | 0.0571 | 0.0571 | 0.0571 |
| 4 | 1445 | 419 | 0.75 | 814280.25 | 0.2885 | 0.1846 | 2.6494 |
| 5 | 1500 | 419 | 1.00 | 814298.31 | 0.1632 | 0.1456 | 1.0562 |
| 6 | 1515 | 419 | 1.25 | 814269.47 | 0.1985 | 0.1523 | 0.7491 |
| 7 | 1530 | 419 | 1.50 | 814262.57 | 0.1790 | 0.1475 | 0.6032 |
| 8 | 1545 | 419 | 1.75 | 814255.68 | 0.1650 | 0.1396 | 0.5156 |
| 9 | 1600 | 419 | 2.00 | 814235.07 | 0.1748 | 0.1397 | 0.4668 |
| 10 | 1615 | 419 | 2.25 | 814227.69 | 0.1650 | 0.1369 | 0.4284 |
| 11 | 1630 | 419 | 2.50 | 814217.01 | 0.1611 | 0.1342 | 0.3992 |
| 12 | 1645 | 419 | 2.75 | 814221.47 | 0.1417 | 0.1266 | 0.3699 |
| 13 | 1700 | 419 | 3.00 | 814211.94 | 0.1392 | 0.1207 | 0.3468 |
| 14 | 1715 | 419 | 3.25 | 814197.33 | 0.1418 | 0.1173 | 0.3298 |
| 15 | 1730 | 419 | 3.50 | 814219.96 | 0.1126 | 0.1076 | 0.3076 |
| 16 | 1745 | 419 | 3.75 | 814221.03 | 0.1042 | 0.0982 | 0.2876 |
| 17 | 1800 | 419 | 4.00 | 814209.47 | 0.1062 | 0.0914 | 0.2720 |
| 18 | 1815 | 419 | 4.25 | 814212.37 | 0.0980 | 0.0844 | 0.2572 |
| 19 | 1830 | 419 | 4.50 | 814211.23 | 0.0933 | 0.0780 | 0.2439 |
| 20 | 1845 | 419 | 4.75 | 814225.03 | 0.0798 | 0.0703 | 0.2300 |
| 21 | 1900 | 419 | 5.00 | 814217.22 | 0.0804 | 0.0642 | 0.2184 |
| 22 | 1915 | 419 | 5.25 | 814210.69 | 0.0803 | 0.0592 | 0.2087 |
| 23 | 1930 | 419 | 5.50 | 814213.46 | 0.0751 | 0.0542 | 0.1995 |
| 24 | 1945 | 419 | 5.75 | 814204.87 | 0.0763 | 0.0504 | 0.1919 |
| 25 | 2000 | 419 | 6.00 | 814199.54 | 0.0757 | 0.0471 | 0.1855 |
| 26 | 2015 | 419 | 6.25 | 814208.54 | 0.0684 | 0.0433 | 0.1785 |
| 27 | 2030 | 419 | 6.50 | 814201.46 | 0.0690 | 0.0402 | 0.1727 |
| 28 | 2045 | 419 | 6.75 | 814200.31 | 0.0670 | 0.0374 | 0.1674 |
| 29 | 2100 | 419 | 7.00 | 814193.42 | 0.0675 | 0.0350 | 0.1629 |
| 30 | 2115 | 419 | 7.25 | 814201.02 | 0.0621 | 0.0324 | 0.1581 |
| 31 | 2130 | 419 | 7.50 | 814189.79 | 0.0644 | 0.0304 | 0.1544 |
| 32 | 2145 | 419 | 7.75 | 814194.99 | 0.0603 | 0.0283 | 0.1504 |
| 33 | 2200 | 419 | 8.00 | 814201.29 | 0.0561 | 0.0259 | 0.1464 |
| 34 | 2215 | 419 | 8.25 | 814197.51 | 0.0558 | 0.0239 | 0.1427 |
| 35 | 2230 | 419 | 8.50 | 814186.92 | 0.0578 | 0.0223 | 0.1399 |
| 36 | 2245 | 419 | 8.75 | 814184.63 | 0.0569 | 0.0209 | 0.1373 |

Allowable leakage rate, La = 0.2000 %/day
 75% La = 0.1500 %/day
 Total time leakage rate = 0.0209 %/day
 Total time UCL = 0.1373 %/day

TABLE 5
TOTAL TIME LEAKAGE RATE REPORT

VERIFICATION

| data set | time | date | elapsed time (hrs) | dry air mass (lbm) | measured rate (%/day) | leakage rate (%/day) |
|-------------|------|------|--------------------------|--------------------------|-----------------------------|----------------------------|
| 1 | 0 | 420 | 0.00 | 814105.24 | 0.0000 | 0.0000 |
| 2 | 15 | 420 | 0.25 | 814093.86 | 0.1342 | 0.1342 |
| 3 | 30 | 420 | 0.50 | 814068.69 | 0.2155 | 0.2155 |
| 4 | 45 | 420 | 0.75 | 814043.27 | 0.2436 | 0.2524 |
| 5 | 100 | 420 | 1.00 | 814030.12 | 0.2215 | 0.2472 |
| 6 | 115 | 420 | 1.25 | 814018.14 | 0.2054 | 0.2337 |
| 7 | 130 | 420 | 1.50 | 813997.85 | 0.2111 | 0.2289 |
| 8 | 145 | 420 | 1.75 | 813976.01 | 0.2177 | 0.2288 |
| 9 | 200 | 420 | 2.00 | 813961.94 | 0.2112 | 0.2257 |
| 10 | 215 | 420 | 2.25 | 813944.55 | 0.2105 | 0.2232 |
| 11 | 230 | 420 | 2.50 | 813928.88 | 0.2080 | 0.2205 |
| 12 | 245 | 420 | 2.75 | 813905.76 | 0.2138 | 0.2203 |
| 13 | 300 | 420 | 3.00 | 813890.35 | 0.2112 | 0.2193 |
| 14 | 315 | 420 | 3.25 | 813872.82 | 0.2108 | 0.2183 |
| 15 | 330 | 420 | 3.50 | 813846.36 | 0.2181 | 0.2194 |
| 16 | 345 | 420 | 3.75 | 813828.96 | 0.2172 | 0.2201 |
| 17 | 400 | 420 | 4.00 | 813814.86 | 0.2140 | 0.2198 |
| 18 | 415 | 420 | 4.25 | 813799.70 | 0.2119 | 0.2191 |
| 19 | 430 | 420 | 4.50 | 813782.72 | 0.2113 | 0.2184 |

Upper limit on leakage rate = 0.2665 %/day
Mass point leakage rate = 0.2184 %/day
Lower limit on leakage rate = 0.1665 %/day

TABLE 6

MASS POINT LEAKAGE RATE REPORT

| data set | time | date | elapsed time (hrs) | dry air mass (lbm) | leakage rate (%/day) | UCL rate (%/day) |
|-------------|------|------|--------------------------|--------------------------|----------------------------|------------------------|
| 1 | 1400 | 419 | 0.00 | 814353.67 | 0.0000 | 0.0000 |
| 2 | 1415 | 419 | 0.25 | 814315.60 | 0.4488 | 0.4488 |
| 3 | 1430 | 419 | 0.50 | 814343.99 | 0.0571 | 1.9926 |
| 4 | 1445 | 419 | 0.75 | 814280.25 | 0.2262 | 0.6399 |
| 5 | 1500 | 419 | 1.00 | 814298.31 | 0.1722 | 0.3769 |
| 6 | 1515 | 419 | 1.25 | 814269.47 | 0.1807 | 0.3025 |
| 7 | 1530 | 419 | 1.50 | 814262.57 | 0.1731 | 0.2550 |
| 8 | 1545 | 419 | 1.75 | 814255.68 | 0.1623 | 0.2224 |
| 9 | 1600 | 419 | 2.00 | 814235.07 | 0.1626 | 0.2080 |
| 10 | 1615 | 419 | 2.25 | 814227.69 | 0.1587 | 0.1945 |
| 11 | 1630 | 419 | 2.50 | 814217.01 | 0.1550 | .1841 |
| 12 | 1645 | 419 | 2.75 | 814221.47 | 0.1449 | 0.1711 |
| 13 | 1700 | 419 | 3.00 | 814211.94 | 0.1378 | 0.1609 |
| 14 | 1715 | 419 | 3.25 | 814197.33 | 0.1342 | 0.1542 |
| 15 | 1730 | 419 | 3.50 | 814219.96 | 0.1219 | 0.1432 |
| 16 | 1745 | 419 | 3.75 | 814221.03 | 0.1107 | 0.1325 |
| 17 | 1800 | 419 | 4.00 | 814209.47 | 0.1035 | 0.1240 |
| 18 | 1815 | 419 | 4.25 | 814212.37 | 0.0961 | 0.1157 |
| 19 | 1830 | 419 | 4.50 | 814211.23 | 0.0894 | 0.1081 |
| 20 | 1845 | 419 | 4.75 | 814225.03 | 0.0810 | 0.0998 |
| 21 | 1900 | 419 | 5.00 | 814217.22 | 0.0749 | 0.0929 |
| 22 | 1915 | 419 | 5.25 | 814210.69 | 0.0703 | 0.0872 |
| 23 | 1930 | 419 | 5.50 | 814213.46 | 0.0657 | 0.0818 |
| 24 | 1945 | 419 | 5.75 | 814204.87 | 0.0625 | 0.0776 |
| 25 | 2000 | 419 | 6.00 | 814199.54 | 0.0601 | 0.0741 |
| 26 | 2015 | 419 | 6.25 | 814208.54 | 0.0567 | 0.0701 |
| 27 | 2030 | 419 | 6.50 | 814201.46 | 0.0542 | 0.0668 |
| 28 | 2045 | 419 | 6.75 | 814200.31 | 0.0520 | 0.0638 |
| 29 | 2100 | 419 | 7.00 | 814193.42 | 0.0504 | 0.0615 |
| 30 | 2115 | 419 | 7.25 | 814201.02 | 0.0481 | 0.0587 |
| 31 | 2130 | 419 | 7.50 | 814189.79 | 0.0468 | 0.0568 |
| 32 | 2145 | 419 | 7.75 | 814194.99 | 0.0451 | 0.0546 |
| 33 | 2200 | 419 | 8.00 | 814201.29 | 0.0431 | 0.0522 |
| 34 | 2215 | 419 | 8.25 | 814197.51 | 0.0414 | 0.0501 |
| 35 | 2230 | 419 | 8.50 | 814186.92 | 0.0404 | 0.0487 |
| 36 | 2245 | 419 | 8.75 | 814184.63 | 0.0394 | 0.0473 |

Allowable leakage rate, I_a = 0.2000 %/day
 75% I_a = 0.1500 %/day
 Mass point leakage rate = 0.0394 %/day
 Mass point UCL = 0.0473 %/day

TABLE 7
MASS POINT LEAKAGE RATE REPORT

VERIFICATION

| data set | time | date | elapsed time (hrs) | dry air mass (lbm) | leakage rate (%/day) |
|-------------|------|------|--------------------------|--------------------------|----------------------------|
| 1 | 0 | 420 | 0.00 | 814105.24 | 0.0000 |
| 2 | 15 | 420 | 0.25 | 814053.86 | 0.1342 |
| 3 | 30 | 420 | 0.50 | 814068.69 | 0.2155 |
| 4 | 45 | 420 | 0.75 | 814043.27 | 0.3489 |
| 5 | 100 | 420 | 1.00 | 814030.12 | 0.2368 |
| 6 | 115 | 420 | 1.25 | 814018.14 | 0.2197 |
| 7 | 130 | 420 | 1.50 | 813997.85 | 0.2157 |
| 8 | 145 | 420 | 1.75 | 813976.01 | 0.2175 |
| 9 | 200 | 420 | 2.00 | 813961.94 | 0.2149 |
| 10 | 215 | 420 | 2.25 | 813944.55 | 0.2131 |
| 11 | 230 | 420 | 2.50 | 813928.88 | 0.2108 |
| 12 | 245 | 420 | 2.75 | 813905.76 | 0.2118 |
| 13 | 300 | 420 | 3.00 | 813890.35 | 0.2115 |
| 14 | 315 | 420 | 3.25 | 813872.82 | 0.2111 |
| 15 | 330 | 420 | 3.50 | 813846.36 | 0.2134 |
| 16 | 345 | 420 | 3.75 | 813828.96 | 0.2147 |
| 17 | 400 | 420 | 4.00 | 813814.86 | 0.2147 |
| 18 | 415 | 420 | 4.25 | 813799.70 | 0.2141 |
| 19 | 430 | 420 | 4.50 | 813782.72 | 0.2134 |

Upper limit on leakage rate = 0.2850 %/day
Mass point leakage rate = 0.2134 %/day
Lower limit on leakage rate = 0.1850 %/day

VOGTLE UNIT 2 1992 ILRT TEMPERATURE DURING STABILIZATION

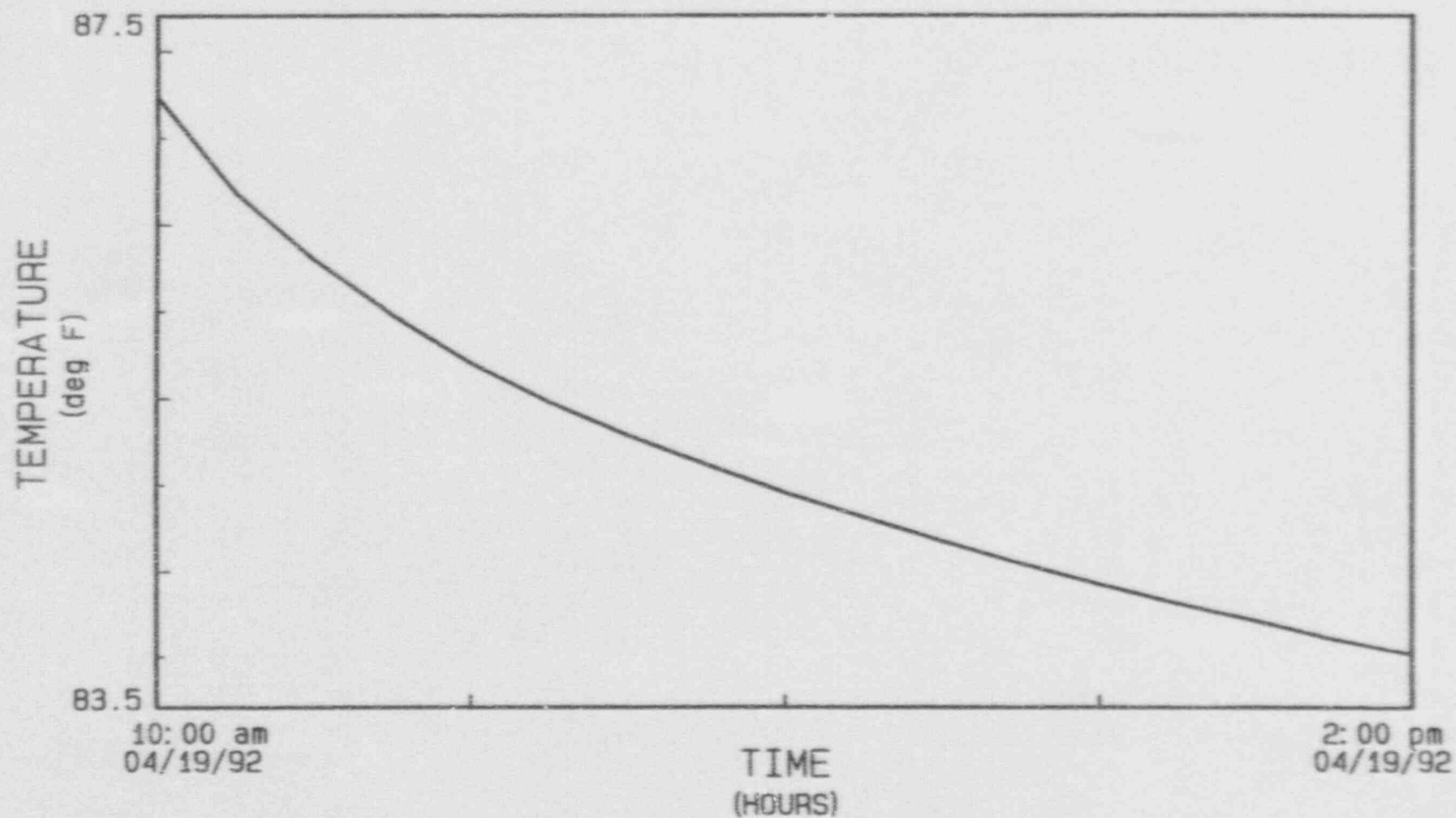


FIGURE 1

VOGTLE UNIT 2 1992 ILRT

AIR MASS - TYPE A TEST

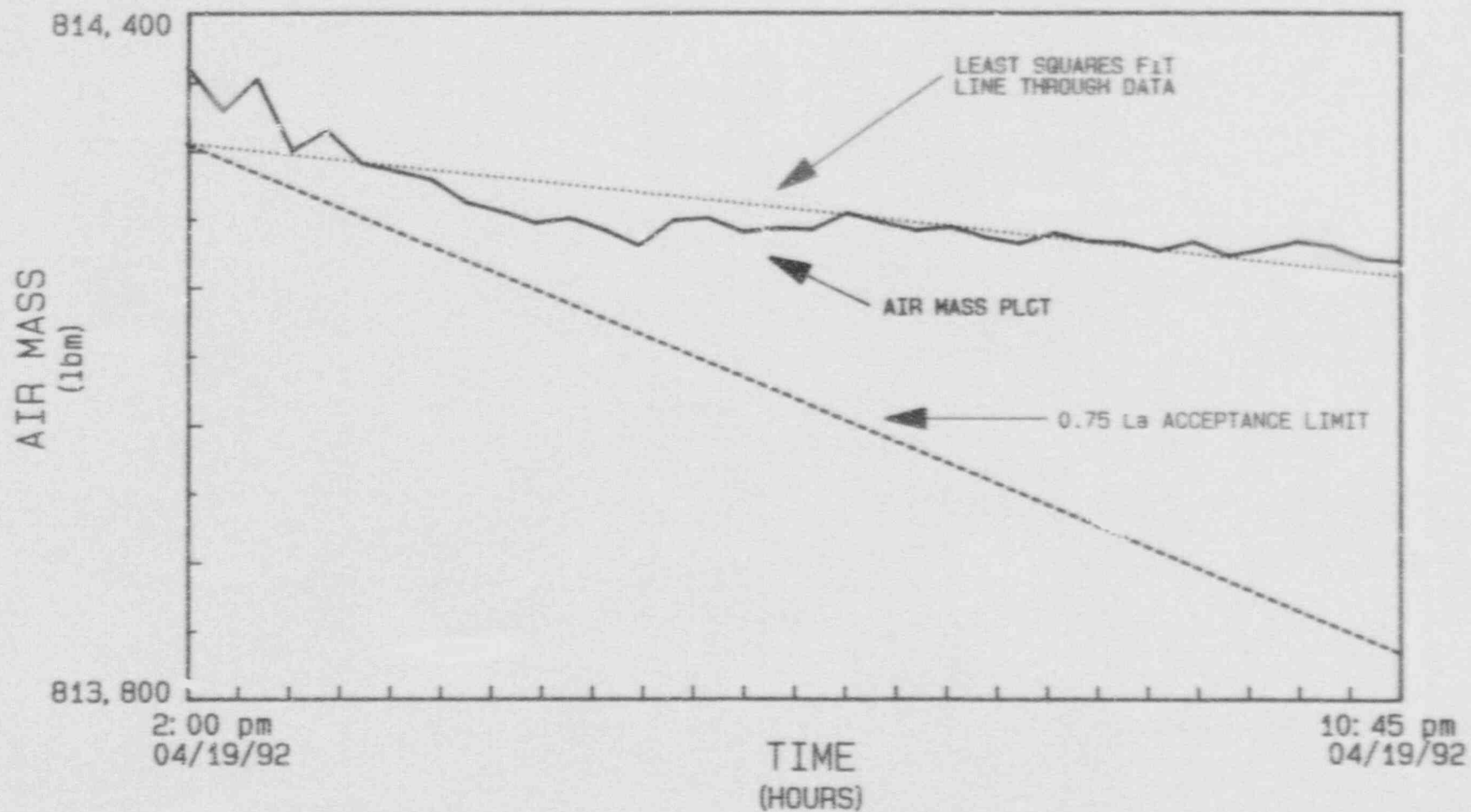


FIGURE 2

VOGTLE UNIT 2 1992 ILRT
MEAN TEMPERATURE - TYPE A TEST

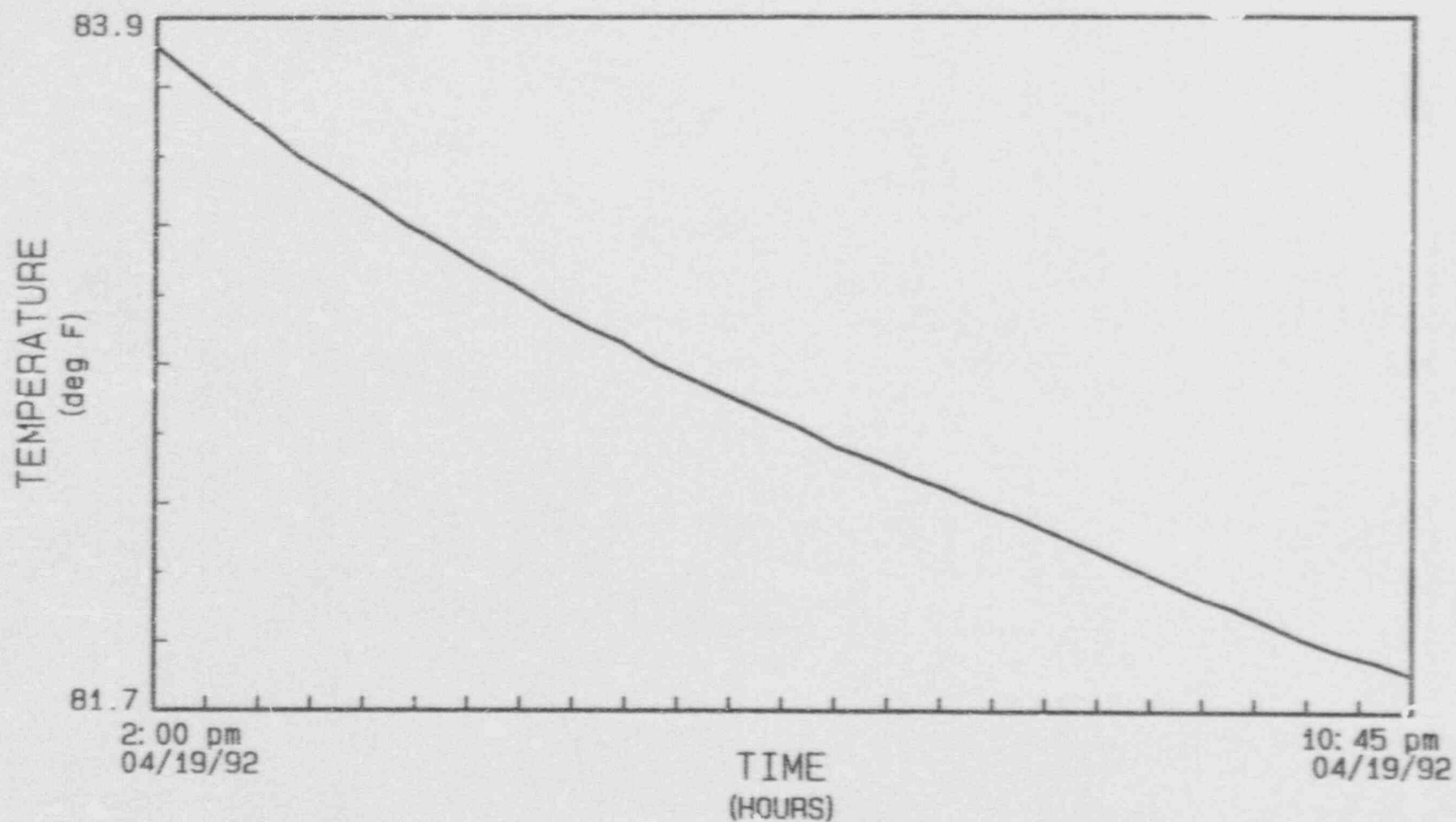


FIGURE 3

VOGTLE UNIT 2 1992 ILRT
TOTAL PRESSURE - TYPE A TEST

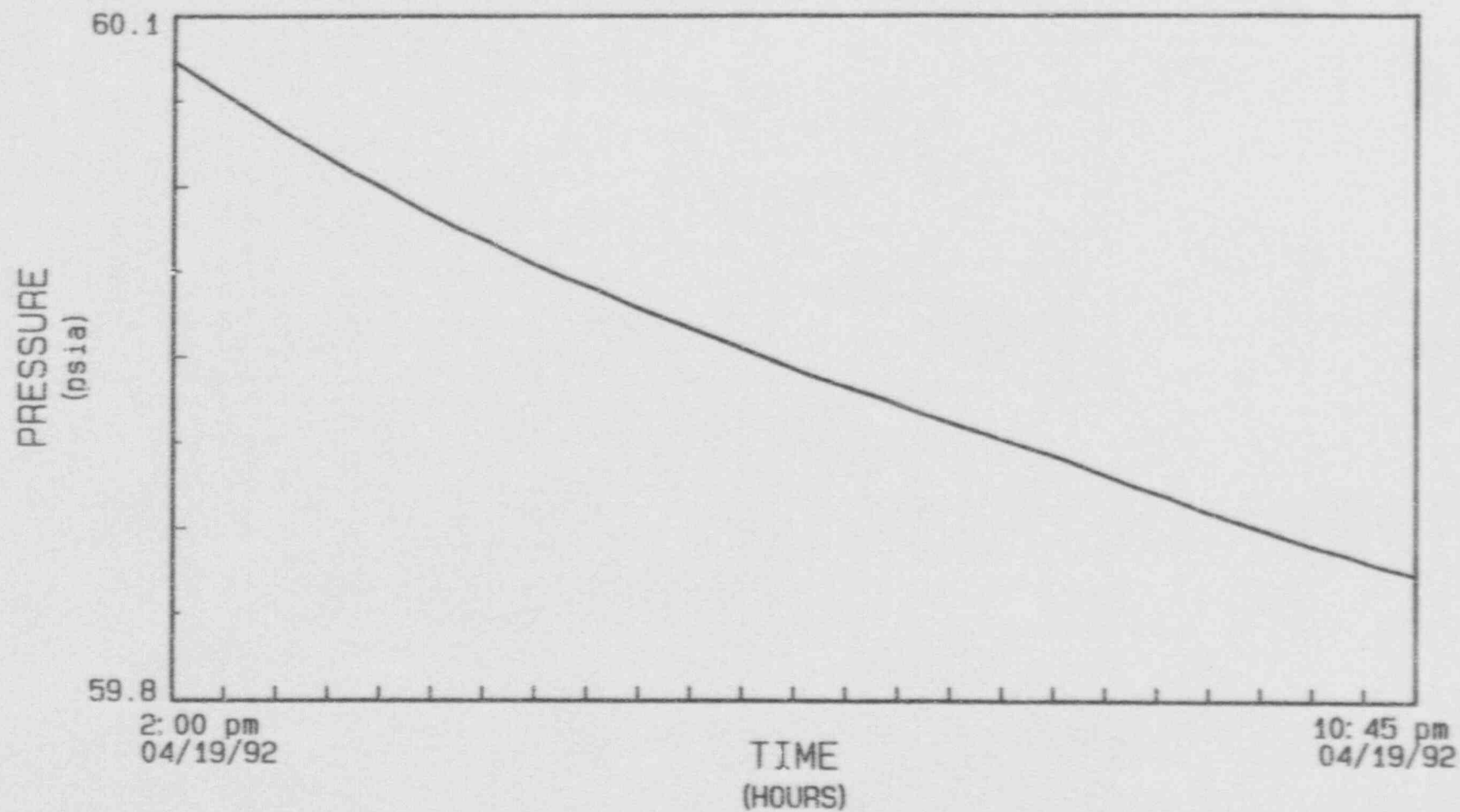


FIGURE 4

VOGTLE UNIT 2 1992 ILRT
VAPOR PRESSURE - TYPE A TEST

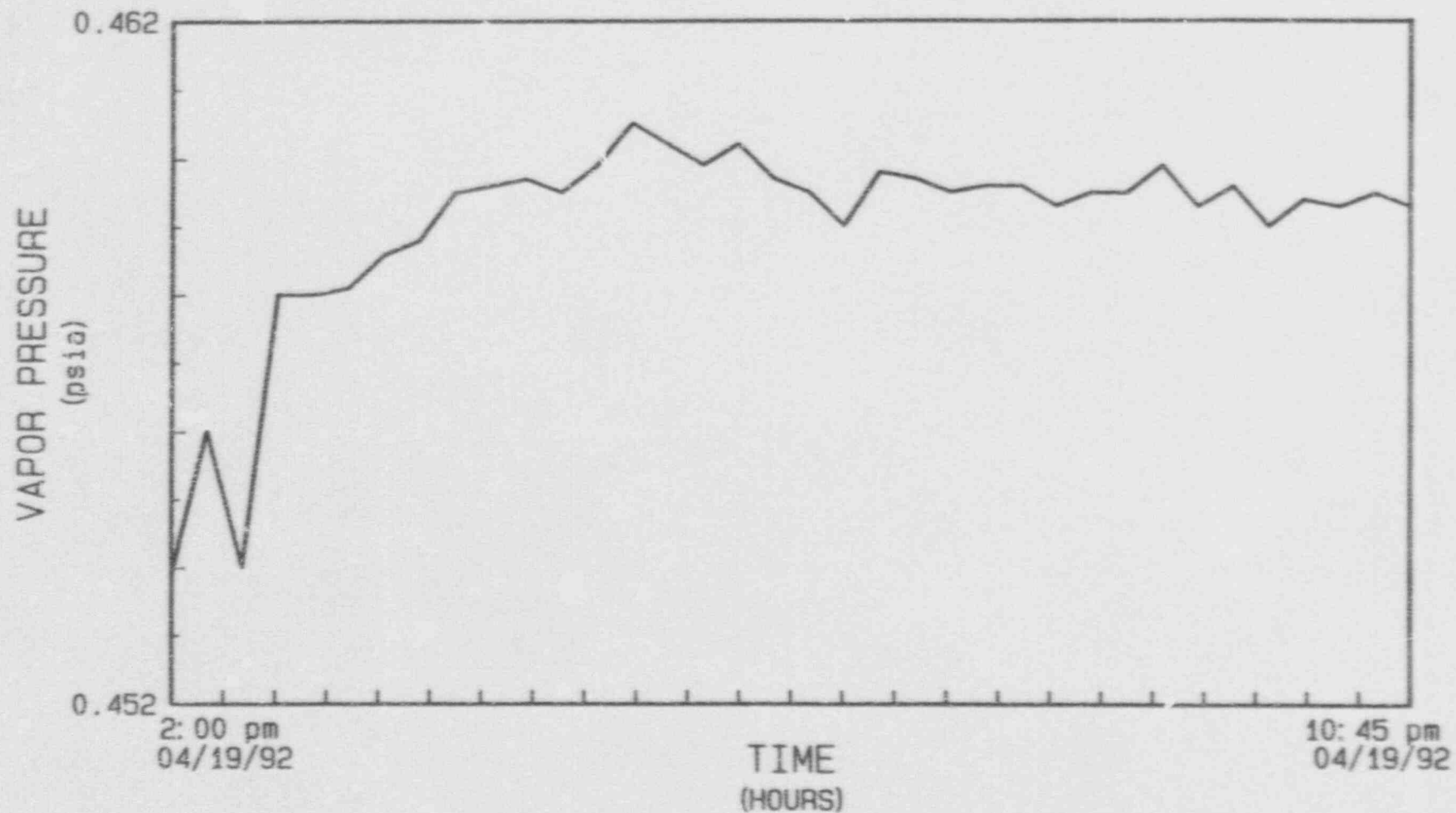


FIGURE 5

VOGTLE UNIT 2 1992 ILRT
TOTAL TIME LEAKAGE RATE
TYPE A TEST

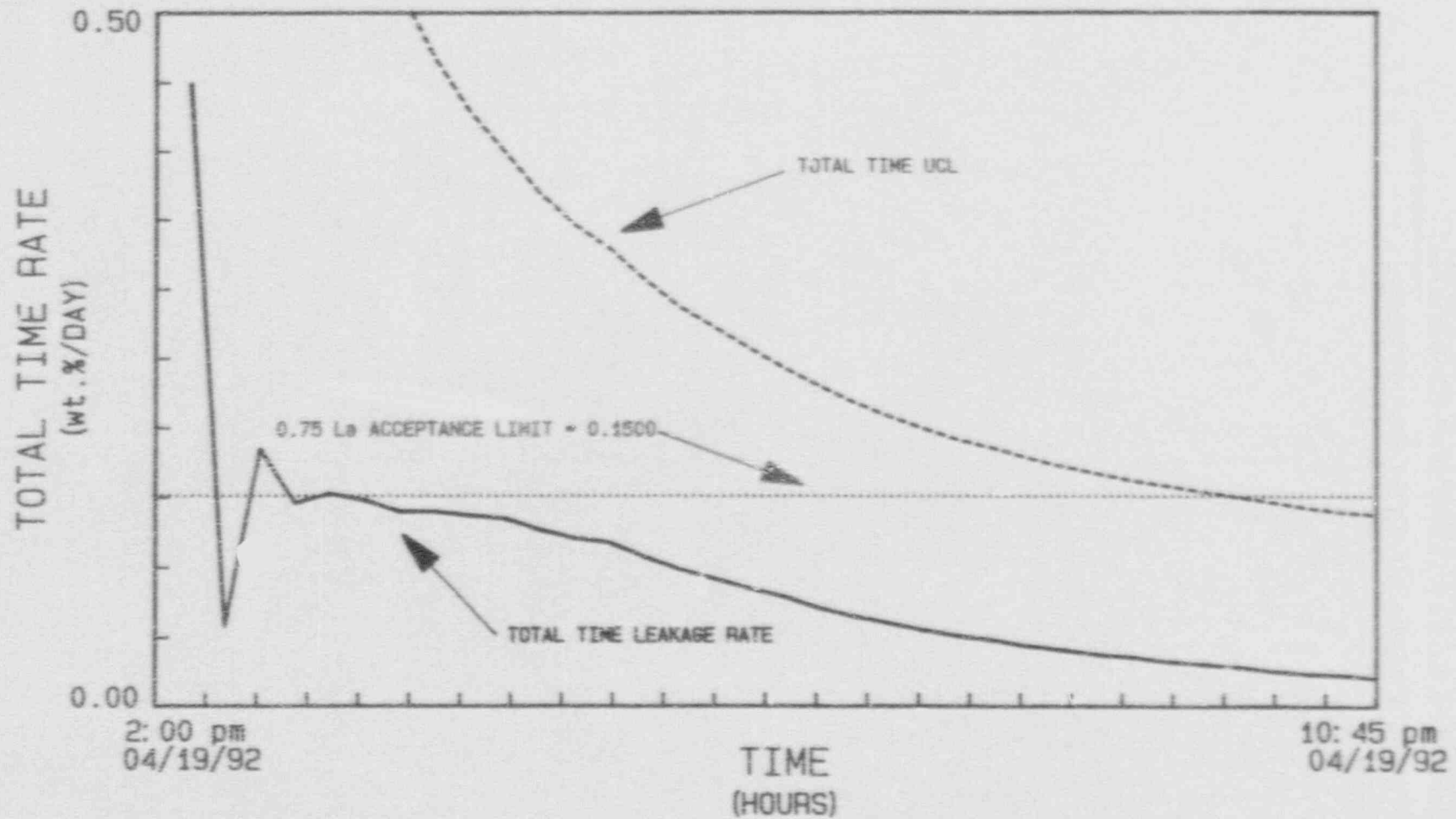


FIGURE 6

VOGTLE UNIT 2 1992 ILRT

AIR MASS - VERIFICATION

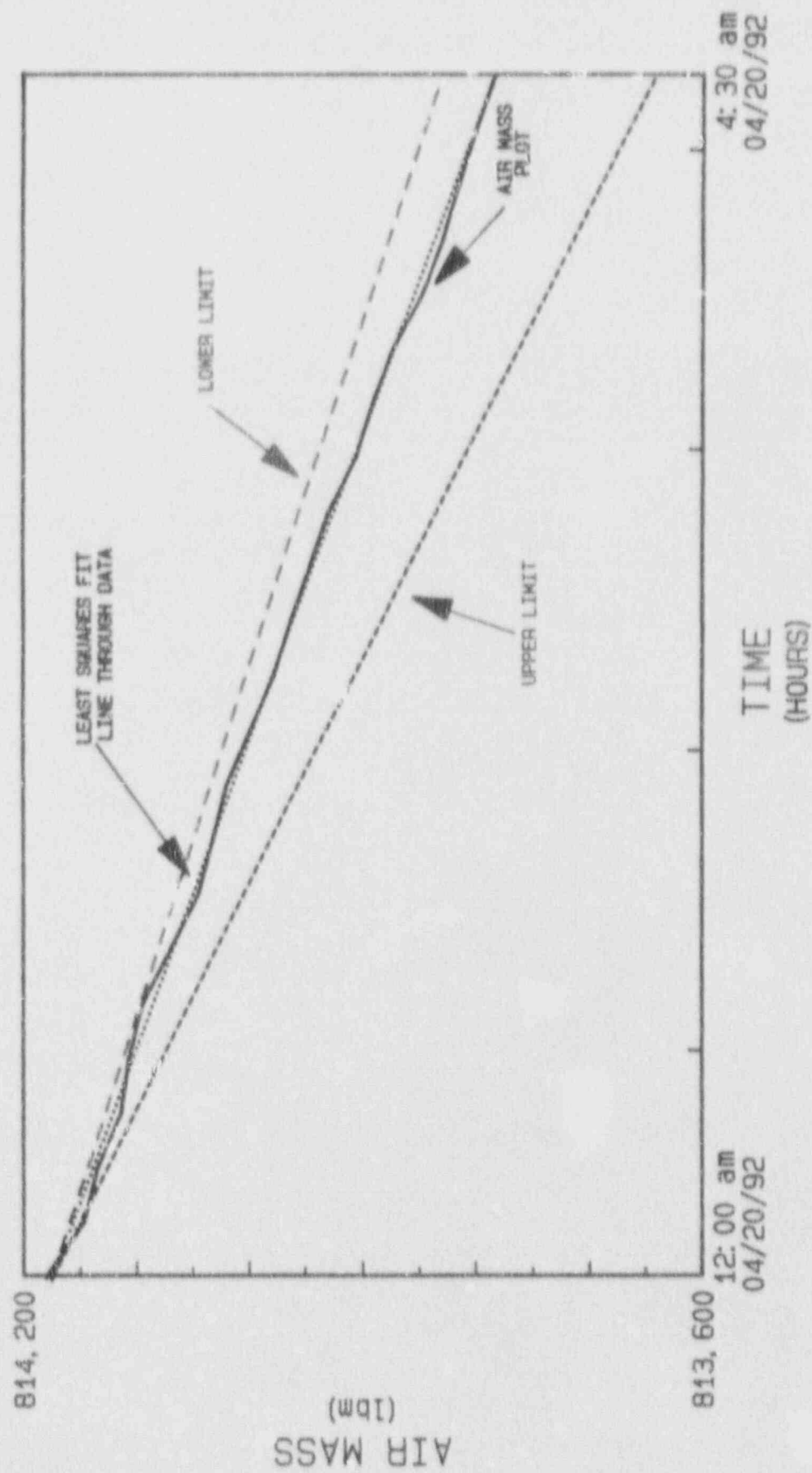


FIGURE 7

VOGTLE UNIT 2 1992 ILRT
TOTAL TIME - VERIFICATION

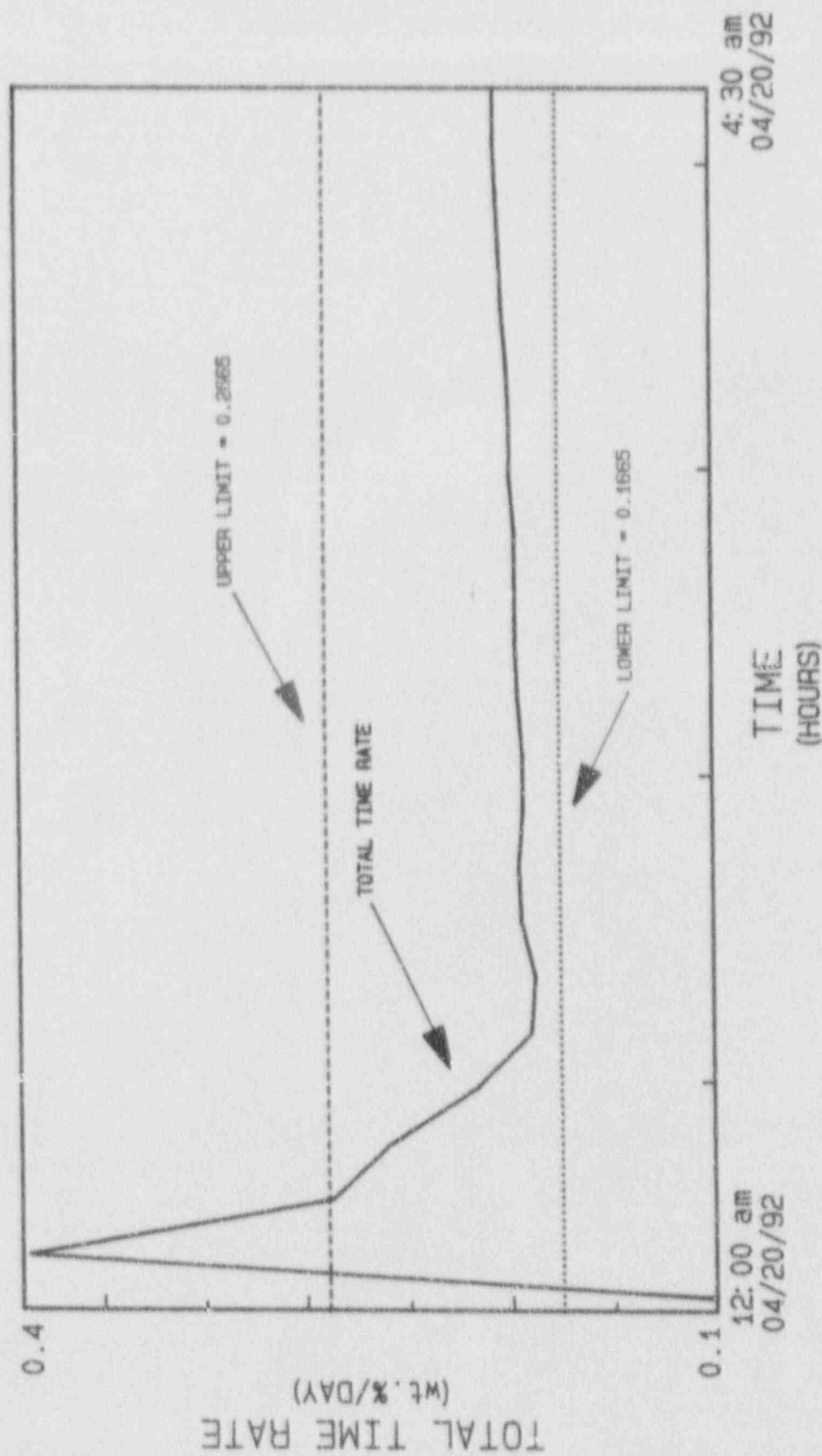


FIGURE 8

APPENDIX I

ILRT COMPUTER PROGRAM DESCRIPTION

The ILRT computer program used in this test was a program purchased by Southern Company Services (SCS) from BCP Technical Services. The program is a modified version of the BCP standard ILRT program prepared for specific use at VEGP. Complete verification of the VEGP version has been performed and documented. The program source code was included in the purchase of the software should there be the need to review the routines used to calculate the various ILRT parameters. The BCP ILRT program is written in Microsoft QuickBASIC, Version 4.5, for IBM Personal Computers and Compatibles.

Upon starting the program the user is prompted for the following predata:

- Number of temperature sensors
- Number of dewpoint sensors
- Number of pressure sensors
- Containment free air volume
- Allowable leakage rate, La
- Sensor volume fractions

Once the test is started the following data is received from the data acquisition system during the test:

- Time and date
- Containment atmosphere drybulb temperatures
- Containment atmosphere pressure
- Containment atmosphere dew point temperatures

Program options provide calculation of the following reports:

DATA SUMMARY REPORT. Displays data set number, time, date, temperature, pressure, vapor pressure and dry air mass for all data sets.

DATA SET REPORT. Displays data set number, time, date, sensor data (raw data and calibrated values), weighted average temperature, pressure and vapor pressure, and volume and dry air mass.

MASS POINT LEAKAGE RATE REPORT. (ANSI/ANS 56.8 - 1987).

Displays data set number, time, date, elapsed time, dry air mass, mass point leakage rate and UCL for all data sets.

TOTAL TIME LEAKAGE RATE REPORT. (BN-TOP-1, rev. 1). Displays data set number, time, date, elapsed time, dry air mass, total time measured leakage rate, leakage rate (calculated) and UCL for all data sets.

TREND REPORT. Displays data set number, time, date, elapsed time, total time measured leakage rate, leakage rate (calculated) and UCL, and mass point leakage rate and UCL for

all data sets.

DATA REJECTION REPORT. (ANSI/ANS 56.8 - 1987). Displays data set number, time, air mass, linear least square fit (air mass), residual from least square fit, standard error of residual and standardized residual for all data sets.

TEMPERATURE STABILIZATION REPORT. (ANSI/ANS 56.8 - 1987 and BN-TOP-1, rev. 1). Displays start time and date, data set number, elapsed time, temperature, 1 hour and 4 hour average rates of temperature change and difference (ANSI criteria), and 2 hour average rate of temperature change and 2 hour average change in rate of temperature change, i.e., second derivative, (BN-TOP-1 criteria) for all data sets.

The following plots are available:

AIR MASS. Plots the air mass, regression line and 75% La line.

LEAK RATES. Plots the mass point and total time leakage rate, UCLs and 75% La line.

TEMPERATURE. Plots the weighted average temperature, temperature for one sensor, or temperature for all sensors.

PRESSURE. Plots the weighted average pressure, pressure for one sensor, or pressure for all sensors.

DEW POINT/VAPOR PRESSURE. Plots the weighted average vapor pressure, dew point temperature for one sensor, or dew point temperature for all sensors.

In addition the program allows for manual data entry, data correction, data set insertion, and deletion of a data set from calculations.

APPENDIX II

TYPE B AND C LOCAL LEAKAGE RATE TEST RESULTS

Results for Type B and C local leakage rate tests performed between the completion of the pre-operational ILRT and the start of the 1992 ILRT are presented herein.

TYPE B AND C RESULTS - 1992 OUTAGE

PAGE 1

| <u>PENETRATION</u> | <u>VALVE</u> | <u>AS-FOUND</u> | | <u>AS-LEFT</u> | |
|--------------------|--------------|-----------------|--------------------------|----------------|----------------|
| | | <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
| 5 | N/A | 3/11/92 | 9.1 SCCM | 4/02/92 | 17.3 SCCM |
| 11A | 21411U4031 | 1/28/92 | 546.0 SCCM | 1/28/92 | 546.0 SCCM |
| 11A | 2HV-5280 | 1/28/92 | 54.5 SCCM | 1/28/92 | 54.5 SCCM |
| 12A | 21411U4029 | 1/30/92 | 8260.0 SCCM | 4/16/92 | 809.0 SCCM |
| 12A | 2HV-5281 | 4/16/92 | 588.0 SCCM | 4/16/92 | 588.0 SCCM |
| 13A | 2HV-12976 | 3/14/92 | 497.0 SCCM | 3/14/92 | 497.0 SCCM |
| 13A | 2HV-12975 | 3/14/92 | 413.0 SCCM | 3/14/92 | 413.0 SCCM |
| 13B | 2HV-12978 | 3/13/92 | 6.9 SCCM | 3/13/92 | 6.9 SCCM |
| 13B | 2HV-12977 | 3/13/92 | 8.1 SCCM | 3/13/92 | 8.1 SCCM |
| 15 | 21213U6051 | 4/04/92 | 6.0 SCCM | 4/07/92 | 47.3 SCCM |
| 15 | 21213U6050 | 4/04/92 | 6.3 SCCM | 4/07/92 | 40.3 SCCM |
| 22 | 21418U4038 | 2/18/92 | 10.7 SCCM | 2/18/92 | 10.7 SCCM |
| 22 | 21418U4005 | 2/18/92 | 7.3 SCCM | 2/18/92 | 7.3 SCCM |
| 23 | 22401U4184 | 1/23/92 | 344000.0 SCCM | 4/06/92 | 72.3 SCCM |
| 23 | 22401U4211 | 4/06/92 | 220.0 SCCM | 4/06/92 | 220.0 SCCM |
| 24 | 2HV-3548 | 3/17/92 | 31.8 SCCM | 4/22/92 | 112.0 SCCM |
| 24 | 2HV-3502 | 3/17/92 | 767.0 SCCM | 4/22/92 | 6.0 SCCM |
| 24 | 2HV-8779 | 3/17/92 | 767.0 SCCM | 4/22/92 | 6.0 SCCM |
| 28 | 2HV-15.3 | 3/24/92 | 49.1 SCCM | 4/07/92 | 49.2 SCCM |
| 28 | 2HV-1979 | 3/24/92 | 90.6 SCCM | 4/07/92 | 69.7 SCCM |
| 29 | 2HV-1974 | 3/24/92 | 29.1 SCCM | 4/04/92 | 99.6 SCCM |
| 29 | 21217U4113 | 3/24/92 | 29.1 SCCM | 4/04/92 | 99.6 SCCM |
| 29 | 2HV-1975 | 3/24/92 | 19.3 SCCM | 4/04/92 | 136.3 SCCM |
| 34 | 21206U6016 | 3/30/92 | 500.0 SCCM | 4/06/92 | 695.0 SCCM |
| 34 | 2HV-9001B | 3/30/92 | 49.0 SCCM | 4/06/92 | 55.2 SCCM |
| 35 | 21206U6015 | 3/13/92 | 121.0 SCCM | 3/19/92 | 87.0 SCCM |
| 35 | 2HV-9001A | 3/13/92 | 6.0 SCCM | 3/19/92 | 245.3 SCCM |
| 36 | 21205V4002 | 3/12/92 | 661.0 SCCM | 4/04/92 | 62.3 SCCM |
| 37 | 21205V4001 | 3/12/92 | 68.2 SCCM | 4/04/92 | 78.2 SCCM |
| 38 | 21206V4001 | 3/12/92 | 433.0 SCCM | 3/22/92 | 232.0 SCCM |
| 39 | 21206V4002 | 3/12/92 | 245.0 SCCM | 3/26/92 | 84.5 SCCM |
| 40 | 22301U4036 | 3/27/92 | 10930.0 SCCM | 4/17/92 | 1922.0 SCCM |
| 40 | 2HV-27901 | 3/27/92 | >20000 ^a SCCM | 4/17/92 | 399.0 SCCM |
| 41 | 2HV-8871 | 3/23/92 | 137.6 SCCM | 3/23/92 | 137.6 SCCM |
| 41 | 2HV-8964 | 3/23/92 | 148.5 SCCM | 3/23/92 | 148.5 SCCM |
| 41 | 2HV-8888 | 3/23/92 | 148.5 SCCM | 3/23/92 | 148.5 SCCM |
| 42 | 22402U4017 | 3/12/92 | 232.0 SCCM | 3/12/92 | 232.0 SCCM |

(a) Leak rate exceeded range of leak rate monitor used.

TYPE B AND C RESULTS - 1992 OUTAGE

PAGE 2

| <u>PENETRATION</u> | <u>VALVE</u> | <u>AS-FOUND</u> | | <u>AS-LEFT</u> | |
|--------------------|--------------|-----------------|----------------|----------------|----------------|
| | | <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
| 42 | 2HV-8880 | 3/12/92 | 77.4 SCCM | 3/12/92 | 77.4 SCCM |
| 48 | 2HV-8160 | 3/17/92 | 6.0 SCCM | 4/04/92 | 7.6 SCCM |
| 48 | 2HV-8152 | 3/18/92 | 7.7 SCCM | 4/04/92 | 14.5 SCCM |
| 49 | 2HV-811? | 3/31/92 | 117.0 SCCM | 4/09/92 | 70.5 SCCM |
| 49 | 21208U4021 | 3/31/92 | 117.0 SCCM | 4/09/92 | 70.5 SCCM |
| 49 | 2HV-8100 | 3/31/92 | 74.4 SCCM | 4/09/92 | 11.9 SCCM |
| 50 | 21208U6032 | 4/07/92 | 1124.0 SCCM | 4/13/92 | 1617.0 SCCM |
| 50 | 2HV-8105 | 4/07/92 | 19.4 SCCM | 4/13/92 | 1.2 SCCM |
| 55 | N/A | 3/11/92 | 6.3 SCCM | 4/12/92 | 119.2 SCCM |
| 62 | 2HV-8047 | 2/13/92 | 6.0 SCCM | 2/13/92 | 6.0 SCCM |
| 62 | 2HV-8033 | 2/13/92 | 12.0 SCCM | 2/13/92 | 12.0 SCCM |
| 63 | 21201U6112 | 3/20/92 | 25.2 SCCM | 4/04/92 | 272.0 SCCM |
| 63 | 2HV-8028 | 3/20/92 | 17.2 SCCM | 4/04/92 | 595.0 SCCM |
| 64A | N/A | 3/14/92 | 8.8 SCCM | 3/14/92 | 8.8 SCCM |
| 64B | N/A | 3/14/92 | 6.0 SCCM | 3/14/92 | 6.0 SCCM |
| 67A | 2HV-3513 | 3/16/92 | 12.0 SCCM | 3/16/92 | 12.0 SCCM |
| 67A | 2HV-3514 | 3/16/92 | 26.0 SCCM | 3/16/92 | 26.0 SCCM |
| 67B | 2HV-3507 | 3/16/92 | 6.0 SCCM | 4/09/92 | 7.3 SCCM |
| 67B | 2HV-3508 | 3/16/92 | 34.4 SCCM | 4/09/92 | 16.8 SCCM |
| 68 | N/A | 3/14/92 | 196.5 SCCM | 4/23/92 | 6.0 SCCM |
| 69A | 21411U4043 | 1/30/92 | 340.0 SCCM | 1/30/92 | 340.0 SCCM |
| 69A | 2HV-5278 | 1/30/92 | 7.6 SCCM | 1/30/92 | 7.6 SCCM |
| 69B | 21411U4044 | 1/28/92 | 60.7 SCCM | 1/28/92 | 60.7 SCCM |
| 69B | 2HV-5279 | 1/28/92 | 15.4 SCCM | 1/28/92 | 15.4 SCCM |
| 70A | 2HV-2790A | 3/14/92 | 6.0 SCCM | 3/14/92 | 6.0 SCCM |
| 70A | 2HV-2791A | 3/14/92 | 6.0 SCCM | 3/14/92 | 6.0 SCCM |
| 70A | 2HV-2790B | 3/14/92 | 6.0 SCCM | 3/14/92 | 6.0 SCCM |
| 70B | 21513U4001 | 3/13/92 | 18.1 SCCM | 3/13/92 | 18.1 SCCM |
| 70B | 2HV-2793A | 3/13/92 | 14.0 SCCM | 3/13/92 | 14.0 SCCM |
| 71A | 2HV-2792A | 3/14/92 | 6.0 SCCM | 3/14/92 | 6.0 SCCM |
| 71A | 2HV-2791B | 3/14/92 | 22.3 SCCM | 3/14/92 | 22.3 SCCM |
| 71A | 2HV-2792B | 3/14/92 | 6.0 SCCM | 3/14/92 | 6.0 SCCM |
| 71B | 21513U4002 | 3/13/92 | 228.0 SCCM | 3/13/92 | 228.0 SCCM |
| 71B | 2HV-2793B | 3/13/92 | 6.8 SCCM | 3/13/92 | 6.8 SCCM |
| 72A | 2HV-10950 | 3/13/92 | 123.3 SCCM | 3/13/92 | 123.3 SCCM |
| 72A | 21204U4159 | 3/13/92 | 4.2 SCCM | 3/13/92 | 4.2 SCCM |
| 72B | 2HV-10952 | 3/13/92 | 136.0 SCCM | 3/13/92 | 136.0 SCCM |

TYPE B AND C RESULTS - 1992 OUTAGE

PAGE 3

| <u>AS-FOUND</u> | | | | <u>AS-LEFT</u> | |
|--------------------|--------------|-------------|--------------------------|----------------|----------------|
| <u>PENETRATION</u> | <u>VALVE</u> | <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
| 72B | 21204U4161 | 3/13/92 | 6.3 SCCM | 3/13/92 | 6.3 SCCM |
| 73A | 2HV-10951 | 3/13/92 | 48.5 SCCM | 3/13/92 | 48.5 SCCM |
| 73A | 21204U4160 | 3/13/92 | 29.3 SCCM | 3/13/92 | 29.3 SCCM |
| 73B | 2HV-10953 | 3/13/92 | 331.0 SCCM | 3/13/92 | 331.0 SCCM |
| 73B | 21204U4162 | 3/13/92 | 39.9 SCCM | 3/13/92 | 39.9 SCCM |
| 77 | 2HV-7699 | 4/14/92 | 50.5 SCCM | 4/14/92 | 50.5 SCCM |
| 77 | 2HV-7136 | 4/14/92 | 57.6 SCCM | 4/14/92 | 57.6 SCCM |
| 78 | 2HV-0780 | 3/31/92 | 137.1 SCCM | 3/31/92 | 137.1 SCCM |
| 78 | 2HV-0781 | 3/31/92 | 250.0 SCCM | 3/31/92 | 250.0 SCCM |
| 79 | 2HV-7126 | 3/12/92 | 8.5 SCCM | 3/12/92 | 5 SCCM |
| 79 | 2HV-7150 | 3/12/92 | 6.0 SCCM | 3/12/92 | 6.0 SCCM |
| 80 | 22401U4034 | 1/23/92 | 330000.0 SCCM | 2/18/92 | 1781.0 SCCM |
| 80 | 2HV-9385 | 3/10/92 | 340.0 SCCM | 3/10/92 | 340.0 SCCM |
| 81 | 22420U4049 | 3/27/92 | 3850.0 SCCM | 3/29/92 | 588.0 SCCM |
| 81 | 2HV-9378 | 3/27/92 | >20000 ^a SCCM | 3/29/92 | 27.0 SCCM |
| 83 | 2HV-2626A | 1/07/92 | 3120.0 SCCM | 4/15/92 | 36.3 SCCM |
| 83 | 2HV-2626B | 1/07/92 | 2740.0 SCCM | 4/15/92 | 255.0 SCCM |
| 83 | 2HV-2627A/B | 1/07/92 | 4550.0 SCCM | 4/15/92 | 38.4 SCCM |
| 84 | 2HV-2628A | 1/08/92 | 526.0 SCCM | 4/16/92 | 1186.0 SCCM |
| 84 | 2HV-2628B | 1/08/92 | 101.3 SCCM | 4/16/92 | 85.4 SCCM |
| 84 | 2HV-2629A/B | 1/08/92 | 910.0 SCCM | 4/16/92 | 519.0 SCCM |
| 86A | 2HV-8211 | 2/06/92 | 6.0 SCCM | 2/06/92 | 6.0 SCCM |
| 86A | 2HV-8212 | 2/06/92 | 7.4 SCCM | 2/06/92 | 7.4 SCCM |
| 86C | 2HV-8209 | 3/15/92 | 152.4 SCCM | 3/15/92 | 152.4 SCCM |
| 86C | 2HV-8208 | 3/15/92 | 157.5 SCCM | 3/15/92 | 157.5 SCCM |
| 87 | N/A | 3/14/92 | 8.8 SCCM | 4/23/92 | 6.0 SCCM |
| 89 | N/A | 4/14/92 | 6.0 SCCM | 4/14/92 | 6.0 SCCM |
| 90 | N/A | 3/11/92 | 10.6 SCCM | 4/02/92 | 10.5 SCCM |
| 100 | 2HV-2624A | 3/13/92 | 138.2 SCCM | 3/21/92 | 25.8 SCCM |
| 100 | 21508U4012 | 3/13/92 | 64.1 SCCM | 3/21/92 | 33.9 SCCM |
| 100 | 2HV-2624B | 3/13/92 | 64.7 SCCM | 3/21/92 | 50.8 SCCM |
| Personnel Airlock | | 3/10/92 | 271.0 SCCM | 4/17/92 | 880.2 SCCM |
| Escape Airlock | | 4/14/92 | 779.0 SCCM | 4/14/92 | 779.0 SCCM |
| Equipment Hatch | | 3/11/92 | 13.9 SCCM | 4/18/92 | 11.1 SCCM |
| Electrical (1-72) | | Various | Insignificant | | |

(a) Leak rate exceeded range of leak rate monitor used.

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TYPE B AND C RESULTS - 1990 OUTAGE

PAGE 1

| <u>AS-FOUND</u> | | | | <u>AS-LEFT</u> | |
|--------------------|--------------|-------------|----------------|----------------|----------------|
| <u>PENETRATION</u> | <u>VALVE</u> | <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
| 5 | N/A | 9/16/90 | 19.3 SCCM | 10/11/90 | 7.0 SCCM |
| 11A | 21411U4031 | 8/30/90 | 242.0 SCCM | 8/03/90 | 242.0 SCCM |
| 11A | 2HV-5280 | 8/03/90 | 78.2 SCCM | 8/03/90 | 78.2 SCCM |
| 12A | 21411U4029 | 8/03/90 | 25.7 SCCM | 8/03/90 | 25.7 SCCM |
| 12A | 2HV-5281 | 8/03/90 | 34.8 SCCM | 8/03/90 | 34.8 SCCM |
| 13A | 2HV-12976 | 9/18/90 | 175.1 SCCM | 9/18/90 | 175.1 SCCM |
| 13A | 2HV-12975 | 9/18/90 | 142.6 SCCM | 9/18/90 | 142.6 SCCM |
| 13B | 2HV-12978 | 9/18/90 | 7.9 SCCM | 9/18/90 | 7.9 SCCM |
| 13B | 2HV-12977 | 9/18/90 | 6.0 SCCM | 9/18/90 | 6.0 SCCM |
| 15 | 21213U6051 | 10/17/90 | 6.0 SCCM | 10/17/90 | 6.0 SCCM |
| 15 | 21213U6050 | 10/17/90 | 8.2 SCCM | 10/17/90 | 8.2 SCCM |
| 22 | 21418U4038 | 7/24/90 | 7.4 SCCM | 7/24/90 | 7.4 SCCM |
| 22 | 21418U4005 | 7/24/90 | 41.8 SCCM | 7/24/90 | 41.8 SCCM |
| 23 | 22401U4184 | 9/05/90 | 8.0 SCCM | 9/05/90 | 8.0 SCCM |
| 23 | 22401U4211 | 9/05/90 | 411.0 SCCM | 9/05/90 | 411.0 SCCM |
| 24 | 2HV-3548 | 9/19/90 | 31.6 SCCM | 10/17/90 | 57.8 SCCM |
| 24 | 2HV-3502 | 9/19/90 | 37.2 SCCM | 10/17/90 | 95.5 SCCM |
| 24 | 2HV-8220 | 9/19/90 | 37.2 SCCM | 10/17/90 | 95.5 SCCM |
| 28 | 2HV-1978 | 10/03/90 | 32.5 SCCM | 10/08/90 | 30.3 SCCM |
| 28 | 2HV-1979 | 10/03/90 | 53.2 SCCM | 10/08/90 | 47.6 SCCM |
| 29 | 2HV-1974 | 10/04/90 | 35.2 SCCM | 10/04/90 | 35.2 SCCM |
| 29 | 21217U4113 | 10/04/90 | 35.2 SCCM | 10/04/90 | 35.2 SCCM |
| 29 | 2HV-1975 | 10/04/90 | 24.4 SCCM | 10/04/90 | 24.4 SCCM |
| 34 | 21206U6016 | 10/03/90 | 368.0 SCCM | 10/03/90 | 368.0 SCCM |
| 34 | 2HV-9001B | 10/03/90 | 39.2 SCCM | 10/03/90 | 39.2 SCCM |
| 35 | 21206U6015 | 9/18/90 | 334.0 SCCM | 9/20/90 | 946.0 SCCM |
| 35 | 2HV-9001A | 9/18/90 | 25.1 SCCM | 9/20/90 | 59.9 SCCM |
| 36 | 21205V4002 | 9/18/90 | 11060.0 SCCM | 10/27/90 | 682.0 SCCM |
| 37 | 21205V4001 | 9/16/90 | 56.8 SCCM | 10/29/80 | 319.0 SCCM |
| 38 | 21206V4001 | 9/17/90 | 702.0 SCCM | 10/24/90 | 360.0 SCCM |
| 39 | 21206V4002 | 9/17/90 | 317.0 SCCM | 10/24/90 | 152.1 SCCM |
| 40 | 22301U4036 | 10/03/90 | 1306.0 SCCM | 10/03/90 | 7.0 SCCM |
| 40 | 2HV-27901 | 10/03/90 | 10170.0 SCCM | 10/23/90 | 2450.0 SCCM |
| 41 | 2HV-8871 | 10/03/90 | 149.0 SCCM | 10/25/90 | 7.4 SCCM |
| 41 | 2HV-9964 | 10/03/90 | 156.5 SCCM | 10/25/90 | 10.9 SCCM |
| 41 | 2HV-8888 | 10/03/90 | 156.5 SCCM | 10/25/90 | 10.9 SCCM |
| 42 | 22402U4017 | 9/26/90 | 127.0 SCCM | 9/26/90 | 127.0 SCCM |

TYPE B AND C RESULTS - 1990 OUTAGE

PAGE 2

| <u>AS-FOUND</u> | | | | <u>AS-LEFT</u> | |
|--------------------|--------------|-------------|----------------|----------------|----------------|
| <u>PENETRATION</u> | <u>VALVE</u> | <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
| 42 | 2HV-8880 | 9/26/90 | 11.2 SCCM | 9/26/90 | 11.2 SCCM |
| 48 | 2HV-8160 | 9/19/90 | 470.0 SCCM | 9/25/90 | 6.9 SCCM |
| 48 | 2HV-8152 | 9/19/90 | 391.0 SCCM | 9/25/90 | 6.0 SCCM |
| 49 | 2HV-8112 | 10/03/90 | 110.7 SCCM | 10/03/90 | 110.7 SCCM |
| 49 | 21208U4021 | 10/03/90 | 110.7 SCCM | 10/03/90 | 110.7 SCCM |
| 49 | 2HV-8100 | 10/03/90 | 31.7 SCCM | 10/03/90 | 31.7 SCCM |
| 50 | 21208U6032 | 10/10/90 | 67.0 SCCM | 10/10/90 | 67.0 SCCM |
| 50 | 2HV-8105 | 10/10/90 | 6.0 SCCM | 10/10/90 | 6.0 SCCM |
| 55 | N/A | 9/16/90 | 242.0 SCCM | 10/11/90 | 34.5 SCCM |
| 62 | 2HV-8047 | 8/09/90 | 6.0 SCCM | 8/09/90 | 6.0 SCCM |
| 62 | 2HV-8033 | 8/09/90 | 6.0 SCCM | 8/09/90 | 6.0 SCCM |
| 63 | 21201U6112 | 9/21/90 | 74.4 SCCM | 10/19/90 | 6.0 SCCM |
| 63 | 2HV-8028 | 9/21/90 | 12.8 SCCM | 10/19/90 | 6.0 SCCM |
| 64A | N/A | 9/24/90 | 120.2 SCCM | 9/24/90 | 120.2 SCCM |
| 64B | N/A | 9/24/90 | 6.6 SCCM | 9/24/90 | 6.6 SCCM |
| 67A | 2HV-3513 | 9/18/90 | 14970.0 SCCM | 10/16/90 | 4.2 SCCM |
| 67A | 2HV-3514 | 9/18/90 | 14000.0 SCCM | 10/16/90 | 4.2 SCCM |
| 67B | 2HV-3507 | 9/19/90 | 167.1 SCCM | 11/01/90 | 6.0 SCCM |
| 67B | 2HV-3508 | 9/19/90 | 46.6 SCCM | 11/01/90 | 24.5 SCCM |
| 68 | N/A | 9/24/90 | 151.2 SCCM | 9/24/90 | 151.2 SCCM |
| 69A | 21411U4043 | 8/02/90 | 1140.0 SCCM | 8/02/90 | 1140.0 SCCM |
| 69A | 2HV-5278 | 8/02/90 | 1553.0 SCCM | 8/02/90 | 1553.0 SCCM |
| 69B | 21411U4044 | 8/02/90 | 178.6 SCCM | 8/02/90 | 178.6 SCCM |
| 69B | 2HV-5279 | 8/02/90 | 1172.0 SCCM | 8/02/90 | 1172.0 SCCM |
| 70A | 2HV-2790A | 9/04/90 | 6.0 SCCM | 9/04/90 | 6.0 SCCM |
| 70A | 2HV-2791B | 9/04/90 | 8.9 SCCM | 9/04/90 | 8.9 SCCM |
| 70A | 2HV-2790B | 9/04/90 | 6.0 SCCM | 9/04/90 | 6.0 SCCM |
| 70B | 21513U4001 | 9/04/90 | 272.0 SCCM | 9/04/90 | 272.0 SCCM |
| 70B | 2HV-2793A | 9/04/90 | 8.9 SCCM | 9/04/90 | 8.9 SCCM |
| 71A | 2HV-2792A | 9/06/90 | 3.2 SCCM | 9/06/90 | 3.2 SCCM |
| 71A | 2HV-2791B | 9/06/90 | 3.9 SCCM | 9/06/90 | 3.9 SCCM |
| 71A | 2HV-2792B | 9/06/90 | 13.5 SCCM | 9/06/90 | 13.5 SCCM |
| 71B | 21513U4002 | 9/06/90 | 24.2 SCCM | 9/06/90 | 24.2 SCCM |
| 71B | 2HV-2793B | 9/06/90 | 7.2 SCCM | 9/06/90 | 7.2 SCCM |
| 72A | 2HV-10950 | 9/24/90 | 2010.0 SCCM | 10/03/90 | 145.7 SCCM |
| 72A | 21204U4159 | 9/24/90 | 1856.0 SCCM | 10/03/90 | 6.0 SCCM |
| 72B | 2HV-10952 | 9/24/90 | 366.0 SCCM | 10/09/90 | 225.6 SCCM |

TYPE B AND C RESULTS - 1990 OUTAGE

PAGE 3

| | | | AS-FOUND | AS-LEFT | | |
|-------------------|-------------|----------|---------------|----------|-------------|--|
| PENETRATION | VALVE | DATE | LEAKAGE | DATE | LEAKAGE | |
| 72B | 21204U4161 | 9/24/90 | 3370.0 SCCM | 10/09/90 | 7.6 SCCM | |
| 73A | 2HV-10951 | 9/25/90 | 789.0 SCCM | 10/18/90 | 91.0 SCCM | |
| 73A | 21204U4160 | 9/25/90 | 20.0 SCCM | 10/18/90 | 13.8 SCCM | |
| 73B | 2HV-10953 | 9/25/90 | 462.0 SCCM | 10/10/90 | 465.0 SCCM | |
| 73B | 21204U4162 | 9/25/90 | 29.0 SCCM | 10/10/90 | 7.1 SCCM | |
| 77 | 2HV-7699 | 9/21/90 | 231.8 SCCM | 9/21/90 | 231.8 SCCM | |
| 77 | 2HV-7136 | 9/21/90 | 147.3 SCCM | 9/21/90 | 147.3 SCCM | |
| 78 | 2HV-0780 | 8/23/90 | 99.5 SCCM | 8/23/90 | 99.5 SCCM | |
| 78 | 2HV-0781 | 8/23/90 | 162.5 SCCM | 8/23/90 | 162.5 SCCM | |
| 79 | 2HV-7126 | 9/19/90 | 6.8 SCCM | 9/19/90 | 6.8 SCCM | |
| 79 | 2HV-7150 | 9/19/90 | 7.2 SCCM | 9/19/90 | 7.2 SCCM | |
| 80 | 22401U4034 | 7/26/90 | 2320.0 SCCM | 7/26/90 | 2320.0 SCCM | |
| 90 | 2HV-9385 | 7/26/90 | 67.0 SCCM | 7/26/90 | 67.0 SCCM | |
| 81 | 22420U4049 | 10/04/90 | 520.0 SCCM | 10/04/90 | 520.0 SCCM | |
| 81 | 2HV-9378 | 10/04/90 | 166.0 SCCM | 10/04/90 | 166.0 SCCM | |
| 83 | 2HV-2626A | 10/22/90 | 178.4 SCCM | 10/22/90 | 178.4 SCCM | |
| 83 | 2HV-2626B | 10/22/90 | 46.9 SCCM | 10/22/90 | 46.9 SCCM | |
| 83 | 2HV-2627A/B | 10/22/90 | 23.0 SCCM | 10/22/90 | 23.0 SCCM | |
| 84 | 2HV-2628A | 10/22/90 | 3760.0 SCCM | 10/23/90 | 578.0 SCCM | |
| 84 | 2HV-2628B | 10/22/90 | 32.0 SCCM | 10/23/90 | 108.0 SCCM | |
| 84 | 2HV-2629A/B | 10/22/90 | 69.5 SCCM | 10/23/90 | 672.0 SCCM | |
| 86A | 2HV-8211 | 8/07/90 | 6.0 SCCM | 8/07/90 | 6.0 SCCM | |
| 86A | 2HV-8212 | 8/07/90 | 6.0 SCCM | 8/07/90 | 6.0 SCCM | |
| 86C | 2HV-8209 | 9/21/90 | 157.2 SCCM | 9/21/90 | 157.2 SCCM | |
| 85C | 2HV-8208 | 9/21/90 | 166.4 SCCM | 9/21/90 | 166.4 SCCM | |
| 87 | N/A | 9/24/90 | 6.0 SCCM | 9/24/90 | 6.0 SCCM | |
| 89 | N/A | 9/17/90 | 11.2 SCCM | 10/20/90 | 14.0 SCCM | |
| 90 | N/A | 9/16/90 | 24.1 SCCM | 10/11/90 | 18.2 SCCM | |
| 100 | 2HV-2624A | 9/16/90 | 44.5 SCCM | 9/16/90 | 44.5 SCCM | |
| 100 | 21508U4012 | 9/16/90 | 29.3 SCCM | 9/16/90 | 29.3 SCCM | |
| 100 | 2HV-2624B | 9/16/90 | 37.6 SCCM | 9/16/90 | 37.6 SCCM | |
| Personnel Airlock | | 8/30/90 | 50.9 SCCM | 10/29/90 | 3766.0 SCCM | |
| Escape Airlock | | 10/26/90 | 367.8 SCCM | 10/26/90 | 367.8 SCCM | |
| Equipment Hatch | | 9/15/90 | 145.2 SCCM | 10/30/90 | 12.2 SCCM | |
| Electrical (1-72) | | Various | Insignificant | N/A | | |

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TYPE B AND C RESULTS - NONSCHEDULED TESTS

PAGE 1

| <u>AS-FOUND</u> | | | | <u>AS-LEFT</u> | |
|--------------------|--------------|-------------|----------------|----------------|----------------|
| <u>PENETRATION</u> | <u>VALVE</u> | <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
| 5 | N/A | 3/02/89 | 391.0 SCCM | 3/02/89 | 391.0 SCCM |
| 11A | 21411U4031 | 2/25/89 | 1800.0 SCCM | 2/25/89 | 1800.0 SCCM |
| 11A | 2HV-5280 | 2/14/89 | 291.0 SCCM | 2/14/89 | 291.0 SCCM |
| 12A | 21411U4029 | 2/24/89 | 1580.0 SCCM | 2/24/89 | 1580.0 SCCM |
| 12A | 2HV-5281 | 2/24/89 | 22.1 SCCM | 2/24/89 | 22.1 SCCM |
| 15 | 21213U6051 | 2/15/89 | 23.7 SCCM | 2/15/89 | 23.7 SCCM |
| 15 | 21213U6050 | 2/15/89 | 23.7 SCCM | 2/15/89 | 23.7 SCCM |
| 22 | 21418U4038 | 1/23/89 | 3.1 SCCM | 1/23/89 | 3.1 SCCM |
| 22 | 21418U4005 | 1/23/89 | 75.4 SCCM | 1/23/89 | 75.4 SCCM |
| 23 | 22401U4184 | 2/23/89 | 9065.0 SCCM | 2/23/89 | 9065.0 SCCM |
| 23 | 22401U4211 | 2/25/89 | 5205.0 SCCM | 2/25/89 | 5205.0 SCCM |
| 24 | 2HV-3548 | 2/27/89 | 29.1 SCCM | 2/27/89 | 29.1 SCCM |
| 24 | 2HV-3502 | 2/27/89 | 29.1 SCCM | 2/27/89 | 29.1 SCCM |
| 24 | 2HV-8220 | 2/27/89 | 29.1 SCCM | 2/27/89 | 29.1 SCCM |
| 28 | 2HV-1978 | 2/26/89 | 299.0 SCCM | 2/26/89 | 299.0 SCCM |
| 28 | 2HV-1979 | 2/26/89 | 125.1 SCCM | 2/26/89 | 125.1 SCCM |
| 34 | 21206U6016 | 1/30/89 | 871.0 SCCM | 1/30/89 | 871.0 SCCM |
| 34 | 2HV-9001B | 1/30/89 | 31.6 SCCM | 1/30/89 | 31.6 SCCM |
| 35 | 21206U6015 | 2/02/89 | 186.0 SCCM | 2/02/89 | 186.0 SCCM |
| 35 | 2HV-9001A | 2/02/89 | 16.5 SCCM | 2/02/89 | 16.5 SCCM |
| 36 | 21205V4002 | 1/25/89 | 1440.0 SCCM | 1/25/89 | 1440.0 SCCM |
| 37 | 21205V4001 | 2/02/89 | 1479.0 SCCM | 2/02/89 | 1479.0 SCCM |
| 38 | 21206V4001 | 2/03/89 | 670.0 SCCM | 2/03/89 | 670.0 SCCM |
| 39 | 21206V4002 | 2/04/89 | 960.0 SCCM | 2/04/89 | 960.0 SCCM |
| 40 | 22301U4036 | 2/04/89 | 306.0 SCCM | 2/04/89 | 306.0 SCCM |
| 40 | 2HV-27901 | 2/28/89 | 2950.0 SCCM | 2/28/89 | 2950.0 SCCM |
| 41 | 2HV-8871 | 2/23/89 | 29.6 SCCM | 2/23/89 | 29.6 SCCM |
| 41 | 2HV-8964 | 2/23/89 | 29.6 SCCM | 2/23/89 | 29.6 SCCM |
| 41 | 2HV-8888 | 2/23/89 | 29.6 SCCM | 2/23/89 | 29.6 SCCM |
| 42 | 22402U4017 | 2/15/89 | 363.0 SCCM | 2/15/89 | 363.0 SCCM |

TYPE B AND C RESULTS - NONSCHEDULED TESTS

PAGE 2

| <u>PENETRATION</u> | <u>VALVE</u> | <u>AS-FOUND</u> | | <u>AS-LEFT</u> | |
|--------------------|--------------|-----------------|----------------|----------------|----------------|
| | | <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
| 42 | 2HV-8880 | 2/15/89 | 29.6 SCCM | 2/15/89 | 29.6 SCCM |
| 48 | 2HV-3160 | 2/22/89 | 21.9 SCCM | 2/22/89 | 21.9 SCCM |
| 49 | 2HV-8152 | 2/22/89 | 21.9 SCCM | 2/22/89 | 21.9 SCCM |
| 49 | 2HV-8112 | 2/27/89 | 82.5 SCCM | 2/27/89 | 82.5 SCCM |
| 49 | 21208U4021 | 2/27/89 | 82.5 SCCM | 2/27/89 | 82.5 SCCM |
| 49 | 2HV-8100 | 2/27/89 | 11.5 SCCM | 2/27/89 | 11.5 SCCM |
| 50 | 21208U6032 | 2/03/89 | 2970.0 SCCM | 2/03/89 | 2970.0 SCCM |
| 50 | 2HV-8105 | 2/03/89 | 542.0 SCCM | 2/03/89 | 542.0 SCCM |
| 55 | N/A | 3/02/89 | 28.4 SCCM | 3/02/89 | 28.4 SCCM |
| 62 | 2HV-8047 | 2/10/89 | 29.6 SCCM | 2/10/89 | 29.6 SCCM |
| 62 | 2HV-8033 | 2/10/89 | 29.6 SCCM | 2/10/89 | 29.6 SCCM |
| 63 | 21201U6112 | 2/13/89 | 29.6 SCCM | 2/13/89 | 29.6 SCCM |
| 63 | 2HV-8028 | 2/13/89 | 29.6 SCCM | 2/13/89 | 29.6 SCCM |
| 64A | N/A | 1/29/89 | 28.3 SCCM | 1/29/89 | 28.3 SCCM |
| 64B | N/A | 1/29/89 | 28.4 SCCM | 1/29/89 | 28.4 SCCM |
| 67A | 2HV-3513 | 2/14/89 | 1656.0 SCCM | 2/14/89 | 1656.0 SCCM |
| 67A | 2HV-3514 | 2/14/89 | 1513.0 SCCM | 2/14/89 | 1513.0 SCCM |
| 67B | 2HV-3507 | 2/01/89 | 397.0 SCCM | 2/01/89 | 397.0 SCCM |
| 67B | 2HV-3508 | 2/01/89 | 435.0 SCCM | 2/01/89 | 435.0 SCCM |
| 68 | N/A | 2/02/89 | 292.0 SCCM | 2/02/89 | 292.0 SCCM |
| 69A | 21411U4043 | 1/18/89 | 377.0 SCCM | 1/18/89 | 377.0 SCCM |
| 69A | 2HV-5278 | 1/18/89 | 29.6 SCCM | 1/18/89 | 29.6 SCCM |
| 69B | 21411U4044 | 2/27/89 | 90.6 SCCM | 2/27/89 | 90.6 SCCM |
| 69B | 2HV-5279 | 2/22/89 | 29.6 SCCM | 2/22/89 | 29.6 SCCM |
| 71A | 2HV-2792A | 2/05/89 | 29.6 SCCM | 2/05/89 | 29.6 SCCM |
| 71A | 2HV-2791B | 2/05/89 | 29.6 SCCM | 2/05/89 | 29.6 SCCM |
| 71A | 2HV-2792B | 2/05/89 | 30.2 SCCM | 2/05/89 | 30.2 SCCM |
| 71B | 21513U4002 | 2/04/89 | 62.3 SCCM | 2/04/89 | 62.3 SCCM |
| 71B | 2HV-2793B | 2/04/89 | 26.4 SCCM | 2/04/89 | 26.4 SCCM |
| 72A | 2HV-10950 | 1/20/89 | 1667.0 SCCM | 1/20/89 | 1667.0 SCCM |
| 72A | 21204U4159 | 1/20/89 | 29.6 SCCM | 1/20/89 | 29.6 SCCM |
| 72B | 2HV-10952 | 1/31/89 | 29.6 SCCM | 1/31/89 | 29.6 SCCM |

TYPE B AND C RESULTS - NONSCHEDULED TESTS

PAGE 3

| <u>PENETRATION</u> | <u>VALVE</u> | <u>AS-FOUND</u> | | <u>AS-LEFT</u> | |
|--------------------|--------------|-----------------|----------------|----------------|----------------|
| | | <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
| 72B | 21204U4161 | 1/31/89 | 29.6 SCCM | 1/31/89 | 29.6 SCCM |
| 73A | 2HV-10951 | 1/31/89 | 869.0 SCCM | 1/31/89 | 869.0 SCCM |
| 73A | 21204U4160 | 1/31/89 | 2.9 SCCM | 1/31/89 | 2.9 SCCM |
| 73B | 2HV-10953 | 1/31/89 | 807.0 SCCM | 1/31/89 | 807.0 SCCM |
| 73B | 21204U4162 | 1/31/89 | 93.6 SCCM | 1/31/89 | 93.6 SCCM |
| 77 | 2HV-7699 | 1/26/89 | 25.8 SCCM | 1/26/89 | 25.8 SCCM |
| 77 | 2HV-7136 | 1/26/89 | 58.9 SCCM | 1/26/89 | 58.9 SCCM |
| 78 | 2HV-0780 | 2/16/89 | 1202.0 SCCM | 2/16/89 | 1202.0 SCCM |
| 78 | 2HV-0781 | 2/25/89 | 1150.0 SCCM | 2/25/89 | 1150.0 SCCM |
| 79 | 2HV-7126 | 2/10/89 | 29.6 SCCM | 2/10/89 | 29.6 SCCM |
| 79 | 2HV-7150 | 2/10/89 | 29.6 SCCM | 2/10/89 | 29.6 SCCM |
| 80 | 22401U4034 | 2/25/89 | 1323.0 SCCM | 2/25/89 | 1323.0 SCCM |
| 80 | 2HV-9385 | 2/25/89 | 362.0 SCCM | 2/25/89 | 362.0 SCCM |
| 81 | 22420U4049 | 2/21/89 | 1157.0 SCCM | 2/21/89 | 1157.0 SCCM |
| 81 | 2HV-9378 | 2/21/89 | 500.0 SCCM | 2/21/89 | 500.0 SCCM |
| 86A | 2HV-8211 | 2/17/89 | 3.1 SCCM | 2/17/89 | 3.1 SCCM |
| 86A | 2HV-8212 | 2/17/89 | 159.2 SCCM | 2/17/89 | 159.2 SCCM |
| 86C | 2HV-8209 | 2/18/89 | 111.0 SCCM | 2/18/89 | 111.0 SCCM |
| 86C | 2HV-8208 | 2/18/89 | 186.7 SCCM | 2/18/89 | 186.7 SCCM |
| 87 | N/A | 2/01/89 | 29.5 SCCM | 2/01/89 | 29.5 SCCM |
| 89 | N/A | 2/20/89 | 29.6 SCCM | 2/20/89 | 29.6 SCCM |
| 90 | N/A | 3/02/89 | 395.0 SCCM | 3/02/89 | 395.0 SCCM |
| 100 | 2HV-2624A | 2/01/89 | 61.4 SCCM | 2/01/89 | 61.4 SCCM |
| 100 | 21508U4012 | 2/01/89 | 385.0 SCCM | 2/01/89 | 385.0 SCCM |
| 100 | 2HV-2624B | 2/01/89 | 47.2 SCCM | 2/01/89 | 47.2 SCCM |

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TYPE B AND C RESULTS - QUARTERLY SURVEILLANCES

PENETRATION 83

| <u>PENETRATION</u> | <u>VALVE</u> | <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
|--------------------|--------------|-------------|----------------|-------------|----------------|
| 83 | 2HV-2626A | 8/10/89 | 638.0 SCCM | 11/01/89 | 338.0 SCCM |
| 83 | 2HV-2626B | 8/10/89 | 34.1 SCCM | 11/01/89 | 150.0 SCCM |
| 83 | 2HV-2627A/B | 8/10/89 | 700.0 SCCM | 11/01/89 | 3500.0 SCCM |
| 83 | 2HV-2626A | 2/07/90 | 240.0 SCCM | 4/18/90 | 269.0 SCCM |
| 83 | 2HV-2626B | 2/07/90 | 174.0 SCCM | 4/18/90 | 244.0 SCCM |
| 83 | 2HV-2627A/B | 2/07/90 | 737.0 SCCM | 4/18/90 | 138.0 SCCM |
| 83 | 2HV-2626A | 7/10/90 | 162.9 SCCM | 10/22/90 | 178.4 SCCM |
| 83 | 2HV-2626B | 7/10/90 | 62.1 SCCM | 10/22/90 | 46.9 SCCM |
| 83 | 2HV-2627A/B | 7/10/90 | 922.0 SCCM | 10/22/90 | 23.0 SCCM |
| 83 | 2HV-2626A | 1/24/91 | 64.3 SCCM | 4/17/91 | 334.0 SCCM |
| 83 | 2HV-2626B | 1/24/91 | 20.4 SCCM | 4/17/91 | 30.0 SCCM |
| 83 | 2HV-2627A/B | 1/24/91 | 227.3 SCCM | 4/17/91 | 433.0 SCCM |
| 83 | 2HV-2626A | 7/09/91 | 92.4 SCCM | 10/02/91 | 259.0 SCCM |
| 83 | 2HV-2626B | 7/09/91 | 74.6 SCCM | 10/02/91 | 81.0 SCCM |
| 83 | 2HV-2627A/B | 7/09/91 | 491.0 SCCM | 10/02/91 | 783.0 SCCM |
| 83 | 2HV-2626A | 1/07/92 | 3120.0 SCCM | 4/15/92 | 36.3 SCCM |
| 83 | 2HV-2626B | 1/07/92 | 2740.0 SCCM | 4/15/92 | 255.0 SCCM |
| 83 | 2HV-2627A/B | 1/07/92 | 4550.0 SCCM | 4/15/92 | 38.4 SCCM |

TYPE B AND C RESULTS - QUARTERLY SURVEILLANCES

PENETRATION 84

| <u>PENETRATION</u> | <u>VALVE</u> | <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
|--------------------|--------------|-------------|----------------|-------------|----------------|
| 84 | 2HV-2628A | 8/10/89 | 280.0 SCCM | 11/02/89 | 335.0 SCCM |
| 84 | 2HV-2628B | 8/10/89 | 608.0 SCCM | 11/02/89 | 91.9 SCCM |
| 84 | 2HV-2629A/B | 8/10/89 | 1562.0 SCCM | 11/02/89 | 6010.0 SCCM |
| 84 | 2HV-2628A | 2/08/90 | 440.0 SCCM | 4/20/90 | 1103.0 SCCM |
| 84 | 2HV-2628B | 2/08/90 | 108.0 SCCM | 4/20/90 | 863.0 SCCM |
| 84 | 2HV-2629A/B | 2/08/90 | 191.0 SCCM | 4/20/90 | 1008.0 SCCM |
| 84 | 2HV-2628A | 7/10/90 | 425.0 SCCM | 10/23/90 | 578.0 SCCM |
| 84 | 2HV-2628B | 7/10/90 | 42.0 SCCM | 10/23/90 | 108.0 SCCM |
| 84 | 2HV-2629A/B | 7/10/90 | 7.0 SCCM | 10/23/90 | 672.0 SCCM |
| 84 | 2HV-2628A | 1/24/91 | 560.0 SCCM | 4/17/91 | 284.0 SCCM |
| 84 | 2HV-2628B | 1/24/91 | 65.8 SCCM | 4/17/91 | 68.8 SCCM |
| 84 | 2HV-2629A/B | 1/24/91 | 5700.0 SCCM | 4/17/91 | 433.0 SCCM |
| *84 | 2HV-2629A/B | 3/21/91 | 472.0 SCCM | | |
| 84 | 2HV-2628A | 7/10/91 | 87.0 SCCM | 10/04/91 | 435.0 SCCM |
| 84 | 2HV-2628B | 7/10/91 | 50.0 SCCM | 10/04/91 | 29.0 SCCM |
| 84 | 2HV-2629A/B | 7/10/91 | 1150.0 SCCM | 10/04/91 | 1796.0 SCCM |
| 84 | 2HV-2628A | 1/08/92 | 526.0 SCCM | 4/16/92 | 1186.0 SCCM |
| 84 | 2HV-2628B | 1/08/92 | 101.3 SCCM | 4/16/92 | 85.4 SCCM |
| 84 | 2HV-2629A/B | 1/08/92 | 910.0 SCCM | 4/16/92 | 519.0 SCCM |

* Due to high leakage rate on 1/24/91, additional LLRT performed on outboard valves on 3/21/91.

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TYPE B AND C RESULTS - PERSONNEL AIRLOCK
COMPOSITE TESTS

| <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
|-------------|----------------|-------------|----------------|
| 2/08/89 | 1411.6 SCCM | 4/18/91 | 3956.0 SCCM |
| 8/08/89 | 1018.0 SCCM | 10/01/91 | 9686.1 SCCM |
| 1/23/90 | 7316.0 SCCM | 12/11/91 | 687.5 SCCM |
| 6/15/90 | 101.8 SCCM | 4/17/92 | 880.2 SCCM |
| 10/29/90 | 3766.0 SCCM | | |

TYPE B AND C RESULTS - ESCAPE LOCK
COMPOSITE TESTS

| <u>DATE</u> | <u>LEAKAGE</u> | <u>DATE</u> | <u>LEAKAGE</u> |
|-------------|----------------|-------------|----------------|
| 3/02/89 | 79.8 SCCM | 10/26/90 | 367.8 SCCM |
| 3/03/89 | 782.6 SCCM | 4/13/91 | 1366.0 SCCM |
| 8/14/89 | 485.3 SCCM | 9/28/91 | 1091.3 SCCM |
| 1/31/90 | 173.0 SCCM | 2/28/92 | 375.6 SCCM |
| 6/27/90 | 1669.2 SCCM | 4/14/92 | 779.0 SCCM |

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TYPE B AND C RESULTS - EQUIPMENT HATCH

DATE

LEAKAGE

2/25/89
10/30/90
4/18/92

23.2 SCCM
12.2 SCCM
11.1 SCCM

TYPE C RESULTS - ELECTRICAL PENETRATIONS

Total electrical penetration leakage for 72 electrical penetrations has been insignificant.

APPENDIX III

INSTRUMENT CALIBRATION SUMMARY

| <u>Parameter/Instrument</u> | <u>Data</u> |
|--|--|
| Pressure/ Volumetrics Model PPM-1000 Precision Pressure Gauge | Range: 0 - 100 psia Accuracy: +/-0.015% RDG +/-0.002% F.S. Repeatability: +/-0.001% F.S. Resolution: 0.001% F.S. Cal. Date: 1-27-92 |
| Drybulb Temperature/ 100 OHM Platinum Resistance Temperature Detectors | Range: 0 to +150 degrees F Accuracy: +/-0.1 degrees F Sensitivity: 0.01 degrees F Repeatability: 0.01 degrees F Cal. Date: 3-5-92 |
| Dew point Temperature/ EG&G Dewtrak Humidity Transmitter | Range: -40 to +140 degrees F Accuracy: +/-1 degrees F Cal. Date: 2-12-92 |
| Flow/ Brooks Rotameter Model GT-1000 | Range: 0 to 13.4 scfm Accuracy: +/-2.0% FS Cal. Date: 3-5-92 |

APPENDIX IV

GENERAL INFORMATION

General Data

Owner - Georgia Power Company
Plant Name - Vogtle Electric Generating Plant (VEGP)
Unit - 2
Outage Cycle - 2nd refueling
Containment Description - steel lined prestressed concrete
Date test was completed - April 19, 1992

Test Data

Test Method - absolute
Test Duration - 8.75 hours
Data Analysis Technique - total time
Test Pressure 45.0 (+1.0 psig, -0 psig)
Maximum Allowable Leakage Rate (La) 0.200 wt.%/day
Acceptance Limit (0.75La) 0.150 wt.%/day
Calculated Leakage Rate (Lam) 0.0209 wt.%/day
Calculated leakage rate at upper confidence limit (UCL)
0.1373 wt.%/day
Final leakage rate (UCL + penalties) 0.1410 wt.%/day

Verification Test

Calibrated Leak Superimposed 0.1956 wt.%/day
Upper limit rate 0.2665 wt.%/day
Lower limit rate 0.1665 wt.%/day
Total time calculated rate 0.2185 wt.%/day

Duration of Test Segments

| | |
|------------------|--------------------|
| Pressurization | 11.1 hours |
| Stabilization | 4 hours |
| Type A Test | 8.75 hours |
| Verification | 1 hour + 4.5 hours |
| Depressurization | 7.03 hours |
| Total | 36.38 hours |

APPENDIX V

TEST DATA

Raw data for the Type A Test and the Verification Test are presented in this appendix.

1992 VEGP Unit 2 Type A Test

data set 1

time = 1400 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (86.640) | = 86.640 deg. F |
| temperature 2 | (86.020) | = 86.020 deg. F |
| temperature 3 | (86.540) | = 86.540 deg. F |
| temperature 4 | (86.520) | = 86.520 deg. F |
| temperature 5 | (86.820) | = 86.820 deg. F |
| temperature 6 | (86.680) | = 86.680 deg. F |
| temperature 7 | (86.740) | = 86.740 deg. F |
| temperature 8 | (87.540) | = 87.540 deg. F |
| temperature 9 | (86.610) | = 86.610 deg. F |
| temperature 10 | (86.410) | = 86.410 deg. F |
| temperature 11 | (84.930) | = 84.930 deg. F |
| temperature 12 | (86.440) | = 86.440 deg. F |
| temperature 13 | (85.330) | = 85.330 deg. F |
| temperature 14 | (85.850) | = 85.850 deg. F |
| temperature 15 | (84.530) | = 84.530 deg. F |
| temperature 16 | (84.470) | = 84.470 deg. F |
| temperature 17 | (84.610) | = 84.610 deg. F |
| temperature 18 | (84.340) | = 84.340 deg. F |
| temperature 19 | (81.220) | = 81.220 deg. F |
| temperature 20 | (83.940) | = 83.940 deg. F |
| temperature 21 | (82.020) | = 82.020 deg. F |
| temperature 22 | (80.800) | = 80.800 deg. F |
| temperature 23 | (80.780) | = 80.780 deg. F |
| temperature 24 | (79.160) | = 79.160 deg. F |
| temperature 25 | (80.420) | = 80.420 deg. F |
| temperature 26 | (79.750) | = 79.750 deg. F |
| temperature 27 | (79.620) | = 79.620 deg. F |
| temperature 28 | (78.470) | = 78.470 deg. F |
| temperature 29 | (77.970) | = 77.970 deg. F |
| temperature 30 | (75.780) | = 75.780 deg. F |
| dewpoint 1 | (82.120) | = 82.120 deg. F , 0.5430 psia |
| dewpoint 2 | (80.650) | = 80.650 deg. F , 0.5177 psia |
| dewpoint 3 | (78.790) | = 78.790 deg. F , 0.4871 psia |
| dewpoint 4 | (71.940) | = 71.940 deg. F , 0.3876 psia |
| dewpoint 5 | (71.680) | = 71.680 deg. F , 0.3843 psia |
| dewpoint 6 | (71.810) | = 71.810 deg. F , 0.3859 psia |
| pressure 1 | (60.0803) | = 60.0803 psia |
| pressure 2 | (60.0900) | = 60.0900 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 83.81346 deg. F |
| pressure | = | 60.08030 psia |
| vapor pressure | = | 0.45389 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814353.67 lbm |

1992 VEGP Unit 2 Type A Test

data set 2

time = 1415 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (86.530) | = 86.530 deg. F |
| temperature 2 | (85.920) | = 85.920 deg. F |
| temperature 3 | (86.420) | = 86.420 deg. F |
| temperature 4 | (86.410) | = 86.410 deg. F |
| temperature 5 | (86.720) | = 86.720 deg. F |
| temperature 6 | (86.550) | = 86.550 deg. F |
| temperature 7 | (86.640) | = 86.640 deg. F |
| temperature 8 | (87.430) | = 87.430 deg. F |
| temperature 9 | (86.510) | = 86.510 deg. F |
| temperature 10 | (86.270) | = 86.270 deg. F |
| temperature 11 | (84.800) | = 84.800 deg. F |
| temperature 12 | (86.320) | = 86.320 deg. F |
| temperature 13 | (85.210) | = 85.210 deg. F |
| temperature 14 | (85.730) | = 85.730 deg. F |
| temperature 15 | (84.420) | = 84.420 deg. F |
| temperature 16 | (84.360) | = 84.360 deg. F |
| temperature 17 | (84.470) | = 84.470 deg. F |
| temperature 18 | (84.240) | = 84.240 deg. F |
| temperature 19 | (81.150) | = 81.150 deg. F |
| temperature 20 | (83.820) | = 83.820 deg. F |
| temperature 21 | (81.980) | = 81.980 deg. F |
| temperature 22 | (80.780) | = 80.780 deg. F |
| temperature 23 | (80.750) | = 80.750 deg. F |
| temperature 24 | (79.130) | = 79.130 deg. F |
| temperature 25 | (80.400) | = 80.400 deg. F |
| temperature 26 | (79.720) | = 79.720 deg. F |
| temperature 27 | (79.600) | = 79.600 deg. F |
| temperature 28 | (78.460) | = 78.460 deg. F |
| temperature 29 | (77.960) | = 77.960 deg. F |
| temperature 30 | (75.760) | = 75.760 deg. F |
| dewpoint 1 | (82.080) | = 82.080 deg. F , 0.5423 psia |
| dewpoint 2 | (80.580) | = 80.580 deg. F , 0.5165 psia |
| dewpoint 3 | (78.750) | = 78.750 deg. F , 0.4865 psia |
| dewpoint 4 | (72.820) | = 72.820 deg. F , 0.3993 psia |
| dewpoint 5 | (71.790) | = 71.790 deg. F , 0.3857 psia |
| dewpoint 6 | (71.960) | = 71.960 deg. F , 0.3879 psia |
| pressure 1 | (60.0701) | = 60.0701 psia |
| pressure 2 | (60.0798) | = 60.0798 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 83.72638 deg. F |
| pressure | = | 60.07010 psia |
| vapor pressure | = | 0.45603 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814315.60 lbm |

1992 VEGP Unit 2 Type A Test

data set 3

time = 1430 date = 419

| sensor | raw data | value |
|----------------|---------------|-----------------------------|
| temperature 1 | (86.420) = | 86.420 deg. F |
| temperature 2 | (85.810) = | 85.810 deg. F |
| temperature 3 | (86.310) = | 86.310 deg. F |
| temperature 4 | (86.270) = | 86.270 deg. F |
| temperature 5 | (86.600) = | 86.600 deg. F |
| temperature 6 | (86.440) = | 86.440 deg. F |
| temperature 7 | (86.490) = | 86.490 deg. F |
| temperature 8 | (87.300) = | 87.300 deg. F |
| temperature 9 | (86.380) = | 86.380 deg. F |
| temperature 10 | (86.170) = | 86.170 deg. F |
| temperature 11 | (84.660) = | 84.660 deg. F |
| temperature 12 | (86.190) = | 86.190 deg. F |
| temperature 13 | (85.080) = | 85.080 deg. F |
| temperature 14 | (85.610) = | 85.610 deg. F |
| temperature 15 | (84.280) = | 84.280 deg. F |
| temperature 16 | (84.220) = | 84.220 deg. F |
| temperature 17 | (84.320) = | 84.320 deg. F |
| temperature 18 | (84.120) = | 84.120 deg. F |
| temperature 19 | (81.080) = | 81.080 deg. F |
| temperature 20 | (83.730) = | 83.730 deg. F |
| temperature 21 | (81.950) = | 81.950 deg. F |
| temperature 22 | (80.760) = | 80.760 deg. F |
| temperature 23 | (80.720) = | 80.720 deg. F |
| temperature 24 | (79.110) = | 79.110 deg. F |
| temperature 25 | (80.380) = | 80.380 deg. F |
| temperature 26 | (79.720) = | 79.720 deg. F |
| temperature 27 | (79.590) = | 79.590 deg. F |
| temperature 28 | (78.460) = | 78.460 deg. F |
| temperature 29 | (77.980) = | 77.980 deg. F |
| temperature 30 | (75.780) = | 75.780 deg. F |
| dewpoint 1 | (82.070) = | 82.070 deg. F , 0.5422 psia |
| dewpoint 2 | (80.310) = | 80.310 deg. F , 0.5120 psia |
| dewpoint 3 | (78.630) = | 78.630 deg. F , 0.4846 psia |
| dewpoint 4 | (72.150) = | 72.150 deg. F , 0.3904 psia |
| dewpoint 5 | (72.020) = | 72.020 deg. F , 0.3887 psia |
| dewpoint 6 | (72.150) = | 72.150 deg. F , 0.3904 psia |
| pressure 1 | (60.0603) = | 60.0603 psia |
| pressure 2 | (60.0699) = | 60.0699 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 83.63675 deg. F |
| pressure | = | 60.06030 psia |
| vapor pressure | = | 0.45399 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814343.99 lbm |

1992 VEGP Unit 2 Type A Test

data set 4

time = 1445 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (86.310) | = 86.310 deg. F |
| temperature 2 | (85.700) | = 85.700 deg. F |
| temperature 3 | (86.190) | = 86.190 deg. F |
| temperature 4 | (86.160) | = 86.160 deg. F |
| temperature 5 | (86.490) | = 86.490 deg. F |
| temperature 6 | (86.340) | = 86.340 deg. F |
| temperature 7 | (86.370) | = 86.370 deg. F |
| temperature 8 | (87.190) | = 87.190 deg. F |
| temperature 9 | (86.280) | = 86.280 deg. F |
| temperature 10 | (86.060) | = 86.060 deg. F |
| temperature 11 | (84.540) | = 84.540 deg. F |
| temperature 12 | (86.110) | = 86.110 deg. F |
| temperature 13 | (84.930) | = 84.930 deg. F |
| temperature 14 | (85.490) | = 85.490 deg. F |
| temperature 15 | (84.170) | = 84.170 deg. F |
| temperature 16 | (84.110) | = 84.110 deg. F |
| temperature 17 | (84.220) | = 84.220 deg. F |
| temperature 18 | (84.000) | = 84.000 deg. F |
| temperature 19 | (81.010) | = 81.010 deg. F |
| temperature 20 | (83.640) | = 83.640 deg. F |
| temperature 21 | (81.900) | = 81.900 deg. F |
| temperature 22 | (80.740) | = 80.740 deg. F |
| temperature 23 | (80.710) | = 80.710 deg. F |
| temperature 24 | (79.090) | = 79.090 deg. F |
| temperature 25 | (80.380) | = 80.380 deg. F |
| temperature 26 | (79.710) | = 79.710 deg. F |
| temperature 27 | (79.590) | = 79.590 deg. F |
| temperature 28 | (78.460) | = 78.460 deg. F |
| temperature 29 | (77.980) | = 77.980 deg. F |
| temperature 30 | (75.760) | = 75.760 deg. F |
| dewpoint 1 | (82.080) | = 82.080 deg. F , 0.5423 psia |
| dewpoint 2 | (80.470) | = 80.470 deg. F , 0.5147 psia |
| dewpoint 3 | (78.950) | = 78.950 deg. F , 0.4897 psia |
| dewpoint 4 | (73.050) | = 73.050 deg. F , 0.4024 psia |
| dewpoint 5 | (72.140) | = 72.140 deg. F , 0.3903 psia |
| dewpoint 6 | (72.240) | = 72.240 deg. F , 0.3916 psia |
| pressure 1 | (60.0508) | = 60.0508 psia |
| pressure 2 | (60.0605) | = 60.0605 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 83.55584 deg. F |
| pressure | = | 60.05080 psia |
| vapor pressure | = | 0.45803 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814280.25 lbm |

1992 VEGP Unit 2 Type A Test

data set 5

time = 1500 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (86.200) | = 86.200 deg. F |
| temperature 2 | (85.580) | = 85.580 deg. F |
| temperature 3 | (86.090) | = 86.090 deg. F |
| temperature 4 | (86.030) | = 86.030 deg. F |
| temperature 5 | (86.370) | = 86.370 deg. F |
| temperature 6 | (86.210) | = 86.210 deg. F |
| temperature 7 | (86.270) | = 86.270 deg. F |
| temperature 8 | (87.090) | = 87.090 deg. F |
| temperature 9 | (86.160) | = 86.160 deg. F |
| temperature 10 | (85.900) | = 85.900 deg. F |
| temperature 11 | (84.410) | = 84.410 deg. F |
| temperature 12 | (85.990) | = 85.990 deg. F |
| temperature 13 | (84.820) | = 84.820 deg. F |
| temperature 14 | (85.350) | = 85.350 deg. F |
| temperature 15 | (84.040) | = 84.040 deg. F |
| temperature 16 | (83.980) | = 83.980 deg. F |
| temperature 17 | (84.070) | = 84.070 deg. F |
| temperature 18 | (83.880) | = 83.880 deg. F |
| temperature 19 | (80.940) | = 80.940 deg. F |
| temperature 20 | (83.520) | = 83.520 deg. F |
| temperature 21 | (81.850) | = 81.850 deg. F |
| temperature 22 | (80.700) | = 80.700 deg. F |
| temperature 23 | (80.670) | = 80.670 deg. F |
| temperature 24 | (79.060) | = 79.060 deg. F |
| temperature 25 | (80.350) | = 80.350 deg. F |
| temperature 26 | (79.680) | = 79.680 deg. F |
| temperature 27 | (79.570) | = 79.570 deg. F |
| temperature 28 | (78.440) | = 78.440 deg. F |
| temperature 29 | (77.970) | = 77.970 deg. F |
| temperature 30 | (75.760) | = 75.760 deg. F |
| dewpoint 1 | (81.280) | = 81.980 deg. F , 0.5406 psia |
| dewpoint 2 | (80.430) | = 80.430 deg. F , 0.5140 psia |
| dewpoint 3 | (78.950) | = 78.950 deg. F , 0.4897 psia |
| dewpoint 4 | (72.990) | = 72.990 deg. F , 0.4016 psia |
| dewpoint 5 | (72.270) | = 72.270 deg. F , 0.3920 psia |
| dewpoint 6 | (72.370) | = 72.370 deg. F , 0.3933 psia |
| pressure 1 | (60.0418) | = 60.0418 psia |
| pressure 2 | (60.0516) | = 60.0516 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 83.46207 deg. F |
| pressure | = | 60.04180 psia |
| vapor pressure | = | 0.45800 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814298.31 lbm |

1992 VEGP Unit 2 Type A Test

data set 6

time = 1515 date = 419

| sensor | | raw data | | value | |
|-------------|----|-------------|---|---------------|-------------|
| temperature | 1 | (86.080) | = | 86.080 deg. F | |
| temperature | 2 | (85.490) | = | 85.490 deg. F | |
| temperature | 3 | (85.990) | = | 85.990 deg. F | |
| temperature | 4 | (85.940) | = | 85.940 deg. F | |
| temperature | 5 | (86.280) | = | 86.280 deg. F | |
| temperature | 6 | (86.120) | = | 86.120 deg. F | |
| temperature | 7 | (86.180) | = | 86.180 deg. F | |
| temperature | 8 | (87.000) | = | 87.000 deg. F | |
| temperature | 9 | (86.070) | = | 86.070 deg. F | |
| temperature | 10 | (85.830) | = | 85.830 deg. F | |
| temperature | 11 | (84.300) | = | 84.300 deg. F | |
| temperature | 12 | (85.930) | = | 85.930 deg. F | |
| temperature | 13 | (84.720) | = | 84.720 deg. F | |
| temperature | 14 | (85.240) | = | 85.240 deg. F | |
| temperature | 15 | (83.930) | = | 83.930 deg. F | |
| temperature | 16 | (83.890) | = | 83.890 deg. F | |
| temperature | 17 | (83.970) | = | 83.970 deg. F | |
| temperature | 18 | (83.800) | = | 83.800 deg. F | |
| temperature | 19 | (80.870) | = | 80.870 deg. F | |
| temperature | 20 | (83.460) | = | 83.460 deg. F | |
| temperature | 21 | (81.840) | = | 81.840 deg. F | |
| temperature | 22 | (80.700) | = | 80.700 deg. F | |
| temperature | 23 | (80.670) | = | 80.670 deg. F | |
| temperature | 24 | (79.060) | = | 79.060 deg. F | |
| temperature | 25 | (80.330) | = | 80.330 deg. F | |
| temperature | 26 | (79.670) | = | 79.670 deg. F | |
| temperature | 27 | (79.570) | = | 79.570 deg. F | |
| temperature | 28 | (78.460) | = | 78.460 deg. F | |
| temperature | 29 | (77.990) | = | 77.990 deg. F | |
| temperature | 30 | (75.760) | = | 75.760 deg. F | |
| dewpoint | 1 | (81.960) | = | 81.960 deg. F | 0.5402 psia |
| dewpoint | 2 | (80.310) | = | 80.310 deg. F | 0.5120 psia |
| dewpoint | 3 | (78.670) | = | 78.670 deg. F | 0.4852 psia |
| dewpoint | 4 | (73.330) | = | 73.330 deg. F | 0.4063 psia |
| dewpoint | 5 | (72.440) | = | 72.440 deg. F | 0.3943 psia |
| dewpoint | 6 | (72.490) | = | 72.490 deg. F | 0.3949 psia |
| pressure | 1 | (60.0328) | = | 60.0328 psia | |
| pressure | 2 | (60.0428) | = | 60.0428 psia | |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 83.39849 deg. F |
| pressure | = | 60.03280 psia |
| vapor pressure | = | 0.45808 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814269.47 lbm |

1992 VEGP Unit 2 Type A Test

data set 7

time = 1530 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (86.000) | = 86.000 deg. F |
| temperature 2 | (85.400) | = 85.400 deg. F |
| temperature 3 | (85.890) | = 85.890 deg. F |
| temperature 4 | (85.860) | = 85.860 deg. F |
| temperature 5 | (86.160) | = 86.160 deg. F |
| temperature 6 | (86.030) | = 86.030 deg. F |
| temperature 7 | (86.070) | = 86.070 deg. F |
| temperature 8 | (86.880) | = 86.880 deg. F |
| temperature 9 | (85.990) | = 85.990 deg. F |
| temperature 10 | (85.700) | = 85.700 deg. F |
| temperature 11 | (84.190) | = 84.190 deg. F |
| temperature 12 | (85.820) | = 85.820 deg. F |
| temperature 13 | (84.580) | = 84.580 deg. F |
| temperature 14 | (85.140) | = 85.140 deg. F |
| temperature 15 | (83.850) | = 83.850 deg. F |
| temperature 16 | (83.780) | = 83.780 deg. F |
| temperature 17 | (83.870) | = 83.870 deg. F |
| temperature 18 | (83.700) | = 83.700 deg. F |
| temperature 19 | (80.810) | = 80.810 deg. F |
| temperature 20 | (83.380) | = 83.380 deg. F |
| temperature 21 | (81.770) | = 81.770 deg. F |
| temperature 22 | (80.670) | = 80.670 deg. F |
| temperature 23 | (80.650) | = 80.650 deg. F |
| temperature 24 | (79.020) | = 79.020 deg. F |
| temperature 25 | (80.330) | = 80.330 deg. F |
| temperature 26 | (79.660) | = 79.660 deg. F |
| temperature 27 | (79.560) | = 79.560 deg. F |
| temperature 28 | (78.430) | = 78.430 deg. F |
| temperature 29 | (77.980) | = 77.980 deg. F |
| temperature 30 | (75.760) | = 75.760 deg. F |
| dewpoint 1 | (81.940) | = 81.940 deg. F , 0.5399 psia |
| dewpoint 2 | (80.270) | = 80.270 deg. F , 0.5113 psia |
| dewpoint 3 | (78.740) | = 78.740 deg. F , 0.4863 psia |
| dewpoint 4 | (73.380) | = 73.380 deg. F , 0.4069 psia |
| dewpoint 5 | (72.540) | = 72.540 deg. F , 0.3956 psia |
| dewpoint 6 | (72.580) | = 72.580 deg. F , 0.3961 psia |
| pressure 1 | (60.0243) | = 60.0243 psia |
| pressure 2 | (60.0344) | = 60.0344 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 83.32086 deg. F |
| pressure | = | 60.02430 psia |
| vapor pressure | = | 0.45860 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814262.57 lbm |

1992 VEGF Unit 2 Type A Test

data set 8

time = 1545 date = 419

| sensor | | raw data | | value | |
|-------------|------|-----------|---|-----------------|-------------|
| temperature | 1 (| 85.900) | = | 85.900 deg. F | |
| temperature | 2 (| 85.290) | = | 85.290 deg. F | |
| temperature | 3 (| 85.800) | = | 85.800 deg. F | |
| temperature | 4 (| 85.750) | = | 85.750 deg. F | |
| temperature | 5 (| 86.070) | = | 86.070 deg. F | |
| temperature | 6 (| 85.940) | = | 85.940 deg. F | |
| temperature | 7 (| 85.960) | = | 85.960 deg. F | |
| temperature | 8 (| 86.770) | = | 86.770 deg. F | |
| temperature | 9 (| 85.870) | = | 85.870 deg. F | |
| temperature | 10 (| 85.630) | = | 85.630 deg. F | |
| temperature | 11 (| 84.090) | = | 84.090 deg. F | |
| temperature | 12 (| 85.720) | = | 85.720 deg. F | |
| temperature | 13 (| 84.470) | = | 84.470 deg. F | |
| temperature | 14 (| 85.040) | = | 85.040 deg. F | |
| temperature | 15 (| 83.750) | = | 83.750 deg. F | |
| temperature | 16 (| 83.680) | = | 83.680 deg. F | |
| temperature | 17 (| 83.780) | = | 83.780 deg. F | |
| temperature | 18 (| 83.600) | = | 83.600 deg. F | |
| temperature | 19 (| 80.740) | = | 80.740 deg. F | |
| temperature | 20 (| 83.290) | = | 83.290 deg. F | |
| temperature | 21 (| 81.740) | = | 81.740 deg. F | |
| temperature | 22 (| 80.640) | = | 80.640 deg. F | |
| temperature | 23 (| 80.640) | = | 80.640 deg. F | |
| temperature | 24 (| 79.010) | = | 79.010 deg. F | |
| temperature | 25 (| 80.310) | = | 80.310 deg. F | |
| temperature | 26 (| 79.640) | = | 79.640 deg. F | |
| temperature | 27 (| 79.550) | = | 79.550 deg. F | |
| temperature | 28 (| 78.430) | = | 78.430 deg. F | |
| temperature | 29 (| 77.980) | = | 77.980 deg. F | |
| temperature | 30 (| 75.750) | = | 75.750 deg. F | |
| dewpoint | 1 (| 81.830) | = | 81.830 deg. F , | 0.5380 psia |
| dewpoint | 2 (| 80.300) | = | 80.300 deg. F , | 0.5118 psia |
| dewpoint | 3 (| 78.700) | = | 78.700 deg. F , | 0.4857 psia |
| dewpoint | 4 (| 73.390) | = | 73.390 deg. F , | 0.4071 psia |
| dewpoint | 5 (| 72.670) | = | 72.670 deg. F , | 0.3973 psia |
| dewpoint | 6 (| 72.690) | = | 72.690 deg. F , | 0.3976 psia |
| pressure | 1 (| 60.0159) | = | 60.0159 psia | |
| pressure | 2 (| 60.0263) | = | 60.0263 psia | |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 83.24734 deg. F |
| pressure | = | 60.01590 psia |
| vapor pressure | = | 0.45877 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814255.68 lbm |

1992 VEGP Unit 2 Type A Test

data set 9

time = 1600 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (85.800) | = 85.800 deg. F |
| temperature 2 | (85.200) | = 85.200 deg. F |
| temperature 3 | (85.700) | = 85.700 deg. F |
| temperature 4 | (85.660) | = 85.660 deg. F |
| temperature 5 | (85.980) | = 85.980 deg. F |
| temperature 6 | (85.830) | = 85.830 deg. F |
| temperature 7 | (85.850) | = 85.850 deg. F |
| temperature 8 | (86.680) | = 86.680 deg. F |
| temperature 9 | (85.790) | = 85.790 deg. F |
| temperature 10 | (85.540) | = 85.540 deg. F |
| temperature 11 | (83.980) | = 83.980 deg. F |
| temperature 12 | (85.640) | = 85.640 deg. F |
| temperature 13 | (84.370) | = 84.370 deg. F |
| temperature 14 | (84.920) | = 84.920 deg. F |
| temperature 15 | (83.660) | = 83.660 deg. F |
| temperature 16 | (83.600) | = 83.600 deg. F |
| temperature 17 | (83.700) | = 83.700 deg. F |
| temperature 18 | (83.500) | = 83.500 deg. F |
| temperature 19 | (80.690) | = 80.690 deg. F |
| temperature 20 | (83.240) | = 83.240 deg. F |
| temperature 21 | (81.720) | = 81.720 deg. F |
| temperature 22 | (80.630) | = 80.630 deg. F |
| temperature 23 | (80.610) | = 80.610 deg. F |
| temperature 24 | (78.990) | = 78.990 deg. F |
| temperature 25 | (80.310) | = 80.310 deg. F |
| temperature 26 | (79.640) | = 79.640 deg. F |
| temperature 27 | (79.550) | = 79.550 deg. F |
| temperature 28 | (78.440) | = 78.440 deg. F |
| temperature 29 | (77.990) | = 77.990 deg. F |
| temperature 30 | (75.760) | = 75.760 deg. F |
| dewpoint 1 | (81.780) | = 81.780 deg. F , 0.5371 psia |
| dewpoint 2 | (80.310) | = 80.310 deg. F , 0.5120 psia |
| dewpoint 3 | (78.600) | = 78.600 deg. F , 0.4841 psia |
| dewpoint 4 | (73.710) | = 73.710 deg. F , 0.4115 psia |
| dewpoint 5 | (72.790) | = 72.790 deg. F , 0.3989 psia |
| dewpoint 6 | (72.750) | = 72.750 deg. F , 0.3984 psia |
| pressure 1 | (60.0079) | = 60.0079 psia |
| pressure 2 | (60.0182) | = 60.0182 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 83.18168 deg. F |
| pressure | = | 60.00790 psia |
| vapor pressure | = | 0.45948 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814235.07 lbm |

1992 VEGP Unit 2 Type A Test

data set 10

time = 1615 date = 419

| sensor | | raw data | | value | |
|-------------|----|-------------|---|---------------|-------------|
| temperature | 1 | (85.720) | = | 85.720 deg. F | |
| temperature | 2 | (85.110) | = | 85.110 deg. F | |
| temperature | 3 | (85.600) | = | 85.600 deg. F | |
| temperature | 4 | (85.560) | = | 85.560 deg. F | |
| temperature | 5 | (85.880) | = | 85.880 deg. F | |
| temperature | 6 | (85.760) | = | 85.760 deg. F | |
| temperature | 7 | (85.760) | = | 85.760 deg. F | |
| temperature | 8 | (86.600) | = | 86.600 deg. F | |
| temperature | 9 | (85.700) | = | 85.700 deg. F | |
| temperature | 10 | (85.470) | = | 85.470 deg. F | |
| temperature | 11 | (83.870) | = | 83.870 deg. F | |
| temperature | 12 | (85.540) | = | 85.540 deg. F | |
| temperature | 13 | (84.280) | = | 84.280 deg. F | |
| temperature | 14 | (84.820) | = | 84.820 deg. F | |
| temperature | 15 | (83.570) | = | 83.570 deg. F | |
| temperature | 16 | (83.490) | = | 83.490 deg. F | |
| temperature | 17 | (83.600) | = | 83.600 deg. F | |
| temperature | 18 | (83.400) | = | 83.400 deg. F | |
| temperature | 19 | (80.610) | = | 80.610 deg. F | |
| temperature | 20 | (83.170) | = | 83.170 deg. F | |
| temperature | 21 | (81.680) | = | 81.680 deg. F | |
| temperature | 22 | (80.620) | = | 80.620 deg. F | |
| temperature | 23 | (80.600) | = | 80.600 deg. F | |
| temperature | 24 | (78.970) | = | 78.970 deg. F | |
| temperature | 25 | (80.300) | = | 80.300 deg. F | |
| temperature | 26 | (79.630) | = | 79.630 deg. F | |
| temperature | 27 | (79.550) | = | 79.550 deg. F | |
| temperature | 28 | (78.430) | = | 78.430 deg. F | |
| temperature | 29 | (77.990) | = | 77.990 deg. F | |
| temperature | 30 | (75.760) | = | 75.760 deg. F | |
| dewpoint | 1 | (81.760) | = | 81.760 deg. F | 0.5367 psia |
| dewpoint | 2 | (80.230) | = | 80.230 deg. F | 0.5107 psia |
| dewpoint | 3 | (78.640) | = | 78.640 deg. F | 0.4847 psia |
| dewpoint | 4 | (73.630) | = | 73.630 deg. F | 0.4104 psia |
| dewpoint | 5 | (72.920) | = | 72.920 deg. F | 0.4007 psia |
| dewpoint | 6 | (72.860) | = | 72.860 deg. F | 0.3999 psia |
| pressure | 1 | (60.0000) | = | 60.0000 psia | |
| pressure | 2 | (60.0104) | = | 60.0104 psia | |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 83.11382 deg. F |
| pressure | = | 60.00000 psia |
| vapor pressure | = | 0.45957 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814227.69 lbm |

1992 VEGP Unit 2 Type A Test

data set 11

time = 1630 date = 419

| sensor | raw data | value |
|----------------|---------------|-----------------------------|
| temperature 1 | (85.680) = | 85.680 deg. F |
| temperature 2 | (85.050) = | 85.050 deg. F |
| temperature 3 | (85.560) = | 85.560 deg. F |
| temperature 4 | (85.480) = | 85.480 deg. F |
| temperature 5 | (85.800) = | 85.800 deg. F |
| temperature 6 | (85.680) = | 85.680 deg. F |
| temperature 7 | (85.670) = | 85.670 deg. F |
| temperature 8 | (86.510) = | 86.510 deg. F |
| temperature 9 | (85.620) = | 85.620 deg. F |
| temperature 10 | (85.380) = | 85.380 deg. F |
| temperature 11 | (83.790) = | 83.790 deg. F |
| temperature 12 | (85.470) = | 85.470 deg. F |
| temperature 13 | (84.180) = | 84.180 deg. F |
| temperature 14 | (84.750) = | 84.750 deg. F |
| temperature 15 | (83.500) = | 83.500 deg. F |
| temperature 16 | (83.410) = | 83.410 deg. F |
| temperature 17 | (83.510) = | 83.510 deg. F |
| temperature 18 | (83.320) = | 83.320 deg. F |
| temperature 19 | (80.560) = | 80.560 deg. F |
| temperature 20 | (83.040) = | 83.040 deg. F |
| temperature 21 | (81.630) = | 81.630 deg. F |
| temperature 22 | (80.610) = | 80.610 deg. F |
| temperature 23 | (80.580) = | 80.580 deg. F |
| temperature 24 | (78.970) = | 78.970 deg. F |
| temperature 25 | (80.290) = | 80.290 deg. F |
| temperature 26 | (79.610) = | 79.610 deg. F |
| temperature 27 | (79.530) = | 79.530 deg. F |
| temperature 28 | (78.430) = | 78.430 deg. F |
| temperature 29 | (77.980) = | 77.980 deg. F |
| temperature 30 | (75.750) = | 75.750 deg. F |
| dewpoint 1 | (81.730) = | 81.730 deg. F , 0.5362 psia |
| dewpoint 2 | (80.170) = | 80.170 deg. F , 0.5097 psia |
| dewpoint 3 | (78.740) = | 78.740 deg. F , 0.4863 psia |
| dewpoint 4 | (73.570) = | 73.570 deg. F , 0.4095 psia |
| dewpoint 5 | (72.980) = | 72.980 deg. F , 0.4015 psia |
| dewpoint 6 | (72.920) = | 72.920 deg. F , 0.4007 psia |
| pressure 1 | (59.9927) = | 59.9927 psia |
| pressure 2 | (60.0030) = | 60.0030 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 83.05324 deg. F |
| pressure | = | 59.99270 psia |
| vapor pressure | = | 0.45969 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814217.01 lbm |

1992 VEGP Unit 2 Type A Test

data set 12

time = 1645 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (85.560) | = 85.560 deg. F |
| temperature 2 | (84.950) | = 84.950 deg. F |
| temperature 3 | (85.490) | = 85.490 deg. F |
| temperature 4 | (85.400) | = 85.400 deg. F |
| temperature 5 | (85.720) | = 85.720 deg. F |
| temperature 6 | (85.590) | = 85.590 deg. F |
| temperature 7 | (85.590) | = 85.590 deg. F |
| temperature 8 | (86.430) | = 86.430 deg. F |
| temperature 9 | (85.530) | = 85.530 deg. F |
| temperature 10 | (85.280) | = 85.280 deg. F |
| temperature 11 | (83.690) | = 83.690 deg. F |
| temperature 12 | (85.360) | = 85.360 deg. F |
| temperature 13 | (84.090) | = 84.090 deg. F |
| temperature 14 | (84.650) | = 84.650 deg. F |
| temperature 15 | (83.410) | = 83.410 deg. F |
| temperature 16 | (83.340) | = 83.340 deg. F |
| temperature 17 | (83.410) | = 83.410 deg. F |
| temperature 18 | (83.260) | = 83.260 deg. F |
| temperature 19 | (80.500) | = 80.500 deg. F |
| temperature 20 | (82.950) | = 82.950 deg. F |
| temperature 21 | (81.600) | = 81.600 deg. F |
| temperature 22 | (80.590) | = 80.590 deg. F |
| temperature 23 | (80.560) | = 80.560 deg. F |
| temperature 24 | (78.940) | = 78.940 deg. F |
| temperature 25 | (80.280) | = 80.280 deg. F |
| temperature 26 | (79.600) | = 79.600 deg. F |
| temperature 27 | (79.530) | = 79.530 deg. F |
| temperature 28 | (78.420) | = 78.420 deg. F |
| temperature 29 | (77.980) | = 77.980 deg. F |
| temperature 30 | (75.750) | = 75.750 deg. F |
| dewpoint 1 | (81.710) | = 81.710 deg. F , 0.5359 psia |
| dewpoint 2 | (80.130) | = 80.130 deg. F , 0.5090 psia |
| dewpoint 3 | (78.580) | = 78.580 deg. F , 0.4838 psia |
| dewpoint 4 | (73.680) | = 73.680 deg. F , 0.4111 psia |
| dewpoint 5 | (72.990) | = 72.990 deg. F , 0.4016 psia |
| dewpoint 6 | (73.020) | = 73.020 deg. F , 0.4020 psia |
| pressure 1 | (59.9857) | = 59.9857 psia |
| pressure 2 | (59.9959) | = 59.9959 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.98775 deg. F |
| pressure | = | 59.98570 psia |
| vapor pressure | = | 0.45955 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814221.47 lbm |

1992 VEGP Unit 2 Type A Test

data set 13

time = 1700 date = 419

| sensor | | raw data | | value | |
|-------------|----|-------------|---|---------------|-------------|
| temperature | 1 | (85.480) | = | 85.480 deg. F | |
| temperature | 2 | (84.860) | = | 84.860 deg. F | |
| temperature | 3 | (85.410) | = | 85.410 deg. F | |
| temperature | 4 | (85.300) | = | 85.300 deg. F | |
| temperature | 5 | (85.640) | = | 85.540 deg. F | |
| temperature | 6 | (85.530) | = | 85.530 deg. F | |
| temperature | 7 | (85.490) | = | 85.490 deg. F | |
| temperature | 8 | (86.330) | = | 86.330 deg. F | |
| temperature | 9 | (85.450) | = | 85.450 deg. F | |
| temperature | 10 | (85.170) | = | 85.170 deg. F | |
| temperature | 11 | (83.600) | = | 83.600 deg. F | |
| temperature | 12 | (85.310) | = | 85.310 deg. F | |
| temperature | 13 | (84.000) | = | 84.000 deg. F | |
| temperature | 14 | (84.560) | = | 84.560 deg. F | |
| temperature | 15 | (83.320) | = | 83.320 deg. F | |
| temperature | 16 | (83.260) | = | 83.260 deg. F | |
| temperature | 17 | (83.340) | = | 83.340 deg. F | |
| temperature | 18 | (83.170) | = | 83.170 deg. F | |
| temperature | 19 | (80.440) | = | 80.440 deg. F | |
| temperature | 20 | (82.900) | = | 82.900 deg. F | |
| temperature | 21 | (81.590) | = | 81.590 deg. F | |
| temperature | 22 | (80.580) | = | 80.580 deg. F | |
| temperature | 23 | (80.560) | = | 80.560 deg. F | |
| temperature | 24 | (78.940) | = | 78.940 deg. F | |
| temperature | 25 | (80.280) | = | 80.280 deg. F | |
| temperature | 26 | (79.600) | = | 79.600 deg. F | |
| temperature | 27 | (79.520) | = | 79.520 deg. F | |
| temperature | 28 | (78.430) | = | 78.430 deg. F | |
| temperature | 29 | (77.990) | = | 77.990 deg. F | |
| temperature | 30 | (75.760) | = | 75.760 deg. F | |
| dewpoint | 1 | (81.660) | = | 81.660 deg. F | 0.5350 psia |
| dewpoint | 2 | (80.000) | = | 80.000 deg. F | 0.5068 psia |
| dewpoint | 3 | (78.660) | = | 78.660 deg. F | 0.4850 psia |
| dewpoint | 4 | (73.700) | = | 73.700 deg. F | 0.4113 psia |
| dewpoint | 5 | (73.250) | = | 73.250 deg. F | 0.4052 psia |
| dewpoint | 6 | (73.110) | = | 73.110 deg. F | 0.4033 psia |
| pressure | 1 | (59.9790) | = | 59.9790 psia | |
| pressure | 2 | (59.9891) | = | 59.9891 psia | |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.92955 deg. F |
| pressure | = | 59.97900 psia |
| vapor pressure | = | 0.45993 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814211.94 lbm |

1992 VEGP Unit 2 Type A Test

data set 14

time = 1715 date = 419

| sensor | | raw data | | value | |
|-------------|----|-------------|---|---------------|-------------|
| temperature | 1 | (85.410) | = | 85.410 deg. F | |
| temperature | 2 | (84.790) | = | 84.790 deg. F | |
| temperature | 3 | (85.320) | = | 85.320 deg. F | |
| temperature | 4 | (85.240) | = | 85.240 deg. F | |
| temperature | 5 | (85.540) | = | 85.540 deg. F | |
| temperature | 6 | (85.450) | = | 85.450 deg. F | |
| temperature | 7 | (85.410) | = | 85.410 deg. F | |
| temperature | 8 | (86.250) | = | 86.250 deg. F | |
| temperature | 9 | (85.360) | = | 85.360 deg. F | |
| temperature | 10 | (85.110) | = | 85.110 deg. F | |
| temperature | 11 | (83.530) | = | 83.530 deg. F | |
| temperature | 12 | (85.220) | = | 85.220 deg. F | |
| temperature | 13 | (83.890) | = | 83.890 deg. F | |
| temperature | 14 | (84.480) | = | 84.480 deg. F | |
| temperature | 15 | (83.260) | = | 83.260 deg. F | |
| temperature | 16 | (83.180) | = | 83.180 deg. F | |
| temperature | 17 | (83.270) | = | 83.270 deg. F | |
| temperature | 18 | (83.090) | = | 83.090 deg. F | |
| temperature | 19 | (80.380) | = | 80.380 deg. F | |
| temperature | 20 | (82.870) | = | 82.870 deg. F | |
| temperature | 21 | (81.550) | = | 81.550 deg. F | |
| temperature | 22 | (80.580) | = | 80.580 deg. F | |
| temperature | 23 | (80.550) | = | 80.550 deg. F | |
| temperature | 24 | (78.930) | = | 78.930 deg. F | |
| temperature | 25 | (80.270) | = | 80.270 deg. F | |
| temperature | 26 | (79.600) | = | 79.600 deg. F | |
| temperature | 27 | (79.530) | = | 79.530 deg. F | |
| temperature | 28 | (78.420) | = | 78.420 deg. F | |
| temperature | 29 | (78.000) | = | 78.000 deg. F | |
| temperature | 30 | (75.760) | = | 75.760 deg. F | |
| dewpoint | 1 | (81.620) | = | 81.620 deg. F | 0.5343 psia |
| dewpoint | 2 | (80.020) | = | 80.020 deg. F | 0.5072 psia |
| dewpoint | 3 | (78.680) | = | 78.680 deg. F | 0.4854 psia |
| dewpoint | 4 | (73.830) | = | 73.830 deg. F | 0.4131 psia |
| dewpoint | 5 | (73.290) | = | 73.290 deg. F | 0.4057 psia |
| dewpoint | 6 | (73.180) | = | 73.180 deg. F | 0.4042 psia |
| pressure | 1 | (59.9724) | = | 59.9724 psia | |
| pressure | 2 | (59.9826) | = | 59.9826 psia | |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.87394 deg. F |
| pressure | = | 59.97240 psia |
| vapor pressure | = | 0.46050 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814197.33 lbm |

1992 VEGP Unit 2 Type A Test

data set 15

time = 1730 date = 419

| sensor | raw data | value |
|----------------|---------------|-----------------------------|
| temperature 1 | (85.320) = | 85.320 deg. F |
| temperature 2 | (84.720) = | 84.720 deg. F |
| temperature 3 | (85.230) = | 85.230 deg. F |
| temperature 4 | (85.150) = | 85.150 deg. F |
| temperature 5 | (85.470) = | 85.470 deg. F |
| temperature 6 | (85.360) = | 85.360 deg. F |
| temperature 7 | (85.320) = | 85.320 deg. F |
| temperature 8 | (86.160) = | 86.160 deg. F |
| temperature 9 | (85.270) = | 85.270 deg. F |
| temperature 10 | (85.030) = | 85.030 deg. F |
| temperature 11 | (83.430) = | 83.430 deg. F |
| temperature 12 | (85.130) = | 85.130 deg. F |
| temperature 13 | (83.820) = | 83.820 deg. F |
| temperature 14 | (84.400) = | 84.400 deg. F |
| temperature 15 | (83.170) = | 83.170 deg. F |
| temperature 16 | (83.100) = | 83.100 deg. F |
| temperature 17 | (83.180) = | 83.180 deg. F |
| temperature 18 | (83.020) = | 83.020 deg. F |
| temperature 19 | (80.320) = | 80.320 deg. F |
| temperature 20 | (82.760) = | 82.760 deg. F |
| temperature 21 | (81.500) = | 81.500 deg. F |
| temperature 22 | (80.540) = | 80.540 deg. F |
| temperature 23 | (80.520) = | 80.520 deg. F |
| temperature 24 | (78.910) = | 78.910 deg. F |
| temperature 25 | (80.250) = | 80.250 deg. F |
| temperature 26 | (79.570) = | 79.570 deg. F |
| temperature 27 | (79.520) = | 79.520 deg. F |
| temperature 28 | (78.420) = | 78.420 deg. F |
| temperature 29 | (77.990) = | 77.990 deg. F |
| temperature 30 | (75.740) = | 75.740 deg. F |
| dewpoint 1 | (81.580) = | 81.580 deg. F , 0.5336 psia |
| dewpoint 2 | (79.980) = | 79.980 deg. F , 0.5065 psia |
| dewpoint 3 | (78.630) = | 78.630 deg. F , 0.4846 psia |
| dewpoint 4 | (73.720) = | 73.720 deg. F , 0.4116 psia |
| dewpoint 5 | (73.420) = | 73.420 deg. F , 0.4075 psia |
| dewpoint 6 | (73.230) = | 73.230 deg. F , 0.4049 psia |
| pressure 1 | (59.9664) = | 59.9664 psia |
| pressure 2 | (59.9761) = | 59.9761 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.80711 deg. F |
| pressure | = | 59.96640 psia |
| vapor pressure | = | 0.46018 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814219.96 lbm |

1992 VEGP Unit 2 Type A Test

data set 16

time = 1745 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (35.260) | = 85.260 deg. F |
| temperature 2 | (84.650) | = 84.650 deg. F |
| temperature 3 | (85.140) | = 85.140 deg. F |
| temperature 4 | (85.070) | = 85.070 deg. F |
| temperature 5 | (85.390) | = 85.390 deg. F |
| temperature 6 | (85.290) | = 85.290 deg. F |
| temperature 7 | (85.250) | = 85.250 deg. F |
| temperature 8 | (86.090) | = 86.090 deg. F |
| temperature 9 | (85.200) | = 85.200 deg. F |
| temperature 10 | (84.940) | = 84.940 deg. F |
| temperature 11 | (83.350) | = 83.350 deg. F |
| temperature 12 | (85.030) | = 85.030 deg. F |
| temperature 13 | (83.750) | = 83.750 deg. F |
| temperature 14 | (84.310) | = 84.310 deg. F |
| temperature 15 | (83.090) | = 83.090 deg. F |
| temperature 16 | (83.020) | = 83.020 deg. F |
| temperature 17 | (83.110) | = 83.110 deg. F |
| temperature 18 | (82.960) | = 82.960 deg. F |
| temperature 19 | (80.260) | = 80.260 deg. F |
| temperature 20 | (82.720) | = 82.720 deg. F |
| temperature 21 | (81.480) | = 81.480 deg. F |
| temperature 22 | (80.530) | = 80.530 deg. F |
| temperature 23 | (80.510) | = 80.510 deg. F |
| temperature 24 | (78.890) | = 78.890 deg. F |
| temperature 25 | (80.250) | = 80.250 deg. F |
| temperature 26 | (79.570) | = 79.570 deg. F |
| temperature 27 | (79.510) | = 79.510 deg. F |
| temperature 28 | (78.410) | = 78.410 deg. F |
| temperature 29 | (77.990) | = 77.990 deg. F |
| temperature 30 | (75.740) | = 75.740 deg. F |
| dewpoint 1 | (81.540) | = 81.540 deg. F , 0.5329 psia |
| dewpoint 2 | (79.950) | = 79.950 deg. F , 0.5060 psia |
| dewpoint 3 | (78.570) | = 78.570 deg. F , 0.4836 psia |
| dewpoint 4 | (73.740) | = 73.740 deg. F , 0.4119 psia |
| dewpoint 5 | (73.410) | = 73.410 deg. F , 0.4074 psia |
| dewpoint 6 | (73.280) | = 73.280 deg. F , 0.4056 psia |
| pressure 1 | (59.9602) | = 59.9602 psia |
| pressure 2 | (59.9698) | = 59.9698 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.75197 deg. F |
| pressure | = | 59.96020 psia |
| vapor pressure | = | 0.45995 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814221.03 lbm |

1992 VEGF Unit 2 Type A Test

data set 17

time = 1800 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (85.180) | = 85.180 deg. F |
| temperature 2 | (84.560) | = 84.560 deg. F |
| temperature 3 | (85.080) | = 85.080 deg. F |
| temperature 4 | (84.990) | = 84.990 deg. F |
| temperature 5 | (85.320) | = 85.320 deg. F |
| temperature 6 | (85.240) | = 85.240 deg. F |
| temperature 7 | (85.170) | = 85.170 deg. F |
| temperature 8 | (86.020) | = 86.020 deg. F |
| temperature 9 | (85.120) | = 85.120 deg. F |
| temperature 10 | (84.890) | = 84.890 deg. F |
| temperature 11 | (83.280) | = 83.280 deg. F |
| temperature 12 | (84.960) | = 84.960 deg. F |
| temperature 13 | (83.670) | = 83.670 deg. F |
| temperature 14 | (84.240) | = 84.240 deg. F |
| temperature 15 | (83.030) | = 83.030 deg. F |
| temperature 16 | (82.960) | = 82.960 deg. F |
| temperature 17 | (83.040) | = 83.040 deg. F |
| temperature 18 | (82.880) | = 82.880 deg. F |
| temperature 19 | (80.210) | = 80.210 deg. F |
| temperature 20 | (82.660) | = 82.660 deg. F |
| temperature 21 | (81.480) | = 81.480 deg. F |
| temperature 22 | (80.520) | = 80.520 deg. F |
| temperature 23 | (80.500) | = 80.500 deg. F |
| temperature 24 | (78.880) | = 78.880 deg. F |
| temperature 25 | (80.270) | = 80.270 deg. F |
| temperature 26 | (79.560) | = 79.560 deg. F |
| temperature 27 | (79.510) | = 79.510 deg. F |
| temperature 28 | (78.410) | = 78.410 deg. F |
| temperature 29 | (78.000) | = 78.000 deg. F |
| temperature 30 | (75.740) | = 75.740 deg. F |
| dewpoint 1 | (81.560) | = 81.560 deg. F , 0.5333 psia |
| dewpoint 2 | (80.050) | = 80.050 deg. F , 0.5077 psia |
| dewpoint 3 | (78.490) | = 78.490 deg. F , 0.4823 psia |
| dewpoint 4 | (73.720) | = 73.720 deg. F , 0.4116 psia |
| dewpoint 5 | (73.450) | = 73.450 deg. F , 0.4079 psia |
| dewpoint 6 | (73.310) | = 73.310 deg. F , 0.4060 psia |
| pressure 1 | (59.9542) | = 59.9542 psia |
| pressure 2 | (59.9640) | = 59.9640 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.70305 deg. F |
| pressure | = | 59.95420 psia |
| vapor pressure | = | 0.46016 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814209.47 lbm |

1992 VEGP Unit 2 Type A Test

data set 18

time = 1815 date = 419

| sensor | | raw data | | value | |
|-------------|----|-------------|---|---------------|-------------|
| temperature | 1 | (85.120) | = | 85.120 deg. F | |
| temperature | 2 | (84.500) | = | 84.500 deg. F | |
| temperature | 3 | (85.040) | = | 85.040 deg. F | |
| temperature | 4 | (84.920) | = | 84.920 deg. F | |
| temperature | 5 | (85.260) | = | 85.260 deg. F | |
| temperature | 6 | (85.160) | = | 85.160 deg. F | |
| temperature | 7 | (85.090) | = | 85.090 deg. F | |
| temperature | 8 | (85.930) | = | 85.930 deg. F | |
| temperature | 9 | (85.050) | = | 85.050 deg. F | |
| temperature | 10 | (84.810) | = | 84.810 deg. F | |
| temperature | 11 | (83.210) | = | 83.210 deg. F | |
| temperature | 12 | (84.910) | = | 84.910 deg. F | |
| temperature | 13 | (83.590) | = | 83.590 deg. F | |
| temperature | 14 | (84.170) | = | 84.170 deg. F | |
| temperature | 15 | (82.960) | = | 82.960 deg. F | |
| temperature | 16 | (82.880) | = | 82.880 deg. F | |
| temperature | 17 | (82.980) | = | 82.980 deg. F | |
| temperature | 18 | (82.810) | = | 82.810 deg. F | |
| temperature | 19 | (80.180) | = | 80.180 deg. F | |
| temperature | 20 | (82.610) | = | 82.610 deg. F | |
| temperature | 21 | (81.440) | = | 81.440 deg. F | |
| temperature | 22 | (80.510) | = | 80.510 deg. F | |
| temperature | 23 | (80.490) | = | 80.490 deg. F | |
| temperature | 24 | (78.870) | = | 78.870 deg. F | |
| temperature | 25 | (80.250) | = | 80.250 deg. F | |
| temperature | 26 | (79.550) | = | 79.550 deg. F | |
| temperature | 27 | (79.500) | = | 79.500 deg. F | |
| temperature | 28 | (78.410) | = | 78.410 deg. F | |
| temperature | 29 | (77.990) | = | 77.990 deg. F | |
| temperature | 30 | (75.730) | = | 75.730 deg. F | |
| dewpoint | 1 | (81.520) | = | 81.520 deg. F | 0.5326 psia |
| dewpoint | 2 | (79.890) | = | 79.890 deg. F | 0.5050 psia |
| dewpoint | 3 | (78.550) | = | 78.550 deg. F | 0.4833 psia |
| dewpoint | 4 | (73.600) | = | 73.600 deg. F | 0.4100 psia |
| dewpoint | 5 | (73.510) | = | 73.510 deg. F | 0.4087 psia |
| dewpoint | 6 | (73.400) | = | 73.400 deg. F | 0.4072 psia |
| pressure | 1 | (59.9484) | = | 59.9484 psia | |
| pressure | 2 | (59.9581) | = | 59.9581 psia | |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.65194 deg. F |
| pressure | = | 59.94840 psia |
| vapor pressure | = | 0.45975 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814212.37 lbm |

1992 VEG Unit 2 Type A Test

data set 19

time = 1830 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (85.060) | = 85.060 deg. F |
| temperature 2 | (84.430) | = 84.430 deg. F |
| temperature 3 | (84.960) | = 84.960 deg. F |
| temperature 4 | (84.840) | = 84.840 deg. F |
| temperature 5 | (85.180) | = 85.180 deg. F |
| temperature 6 | (85.100) | = 85.100 deg. F |
| temperature 7 | (85.020) | = 85.020 deg. F |
| temperature 8 | (85.850) | = 85.850 deg. F |
| temperature 9 | (84.990) | = 84.990 deg. F |
| temperature 10 | (84.760) | = 84.760 deg. F |
| temperature 11 | (83.150) | = 83.150 deg. F |
| temperature 12 | (84.820) | = 84.820 deg. F |
| temperature 13 | (83.520) | = 83.520 deg. F |
| temperature 14 | (84.110) | = 84.110 deg. F |
| temperature 15 | (82.900) | = 82.900 deg. F |
| temperature 16 | (82.830) | = 82.830 deg. F |
| temperature 17 | (82.920) | = 82.920 deg. F |
| temperature 18 | (82.760) | = 82.760 deg. F |
| temperature 19 | (80.120) | = 80.120 deg. F |
| temperature 20 | (82.550) | = 82.550 deg. F |
| temperature 21 | (81.420) | = 81.420 deg. F |
| temperature 22 | (80.510) | = 80.510 deg. F |
| temperature 23 | (80.470) | = 80.470 deg. F |
| temperature 24 | (78.860) | = 78.860 deg. F |
| temperature 25 | (80.240) | = 80.240 deg. F |
| temperature 26 | (79.550) | = 79.550 deg. F |
| temperature 27 | (79.500) | = 79.500 deg. F |
| temperature 28 | (78.400) | = 78.400 deg. F |
| temperature 29 | (78.000) | = 78.000 deg. F |
| temperature 30 | (75.730) | = 75.730 deg. F |
| dewpoint 1 | (81.470) | = 81.470 deg. F , 0.5317 psia |
| dewpoint 2 | (79.800) | = 79.800 deg. F , 0.5035 psia |
| dewpoint 3 | (78.420) | = 78.420 deg. F , 0.4812 psia |
| dewpoint 4 | (73.720) | = 73.720 deg. F , 0.4116 psia |
| dewpoint 5 | (73.620) | = 73.620 deg. F , 0.4102 psia |
| dewpoint 6 | (73.440) | = 73.440 deg. F , 0.4078 psia |
| pressure 1 | (59.9428) | = 59.9428 psia |
| pressure 2 | (59.9524) | = 59.9524 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.60378 deg. F |
| pressure | = | 59.94280 psia |
| vapor pressure | = | 0.45952 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814211.23 lbm |

data set 20

time = 1845 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.990) | = 84.990 deg. F |
| temperature 2 | (84.370) | = 84.370 deg. F |
| temperature 3 | (84.890) | = 84.890 deg. F |
| temperature 4 | (84.760) | = 84.760 deg. F |
| temperature 5 | (85.100) | = 85.100 deg. F |
| temperature 6 | (85.010) | = 85.010 deg. F |
| temperature 7 | (84.950) | = 84.950 deg. F |
| temperature 8 | (85.780) | = 85.780 deg. F |
| temperature 9 | (84.900) | = 84.900 deg. F |
| temperature 10 | (84.670) | = 84.670 deg. F |
| temperature 11 | (83.080) | = 83.080 deg. F |
| temperature 12 | (84.770) | = 84.770 deg. F |
| temperature 13 | (83.440) | = 83.440 deg. F |
| temperature 14 | (84.020) | = 84.020 deg. F |
| temperature 15 | (82.820) | = 82.820 deg. F |
| temperature 16 | (82.760) | = 82.760 deg. F |
| temperature 17 | (82.850) | = 82.850 deg. F |
| temperature 18 | (82.680) | = 82.680 deg. F |
| temperature 19 | (80.060) | = 80.060 deg. F |
| temperature 20 | (82.490) | = 82.490 deg. F |
| temperature 21 | (81.380) | = 81.380 deg. F |
| temperature 22 | (80.490) | = 80.490 deg. F |
| temperature 23 | (80.470) | = 80.470 deg. F |
| temperature 24 | (78.850) | = 78.850 deg. F |
| temperature 25 | (80.240) | = 80.240 deg. F |
| temperature 26 | (79.530) | = 79.530 deg. F |
| temperature 27 | (79.500) | = 79.500 deg. F |
| temperature 28 | (78.400) | = 78.400 deg. F |
| temperature 29 | (77.990) | = 77.990 deg. F |
| temperature 30 | (75.730) | = 75.730 deg. F |
| dewpoint 1 | (81.470) | = 81.470 deg. F , 0.5317 psia |
| dewpoint 2 | (79.770) | = 79.770 deg. F , 0.5030 psia |
| dewpoint 3 | (78.370) | = 78.370 deg. F , 0.4804 psia |
| dewpoint 4 | (73.560) | = 73.560 deg. F , 0.4094 psia |
| dewpoint 5 | (73.640) | = 73.640 deg. F , 0.4105 psia |
| dewpoint 6 | (73.490) | = 73.490 deg. F , 0.4084 psia |
| pressure 1 | (59.9372) | = 59.9372 psia |
| pressure 2 | (59.9469) | = 59.9469 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.54795 deg. F |
| pressure | = | 59.93720 psia |
| vapor pressure | = | 0.15903 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814225.03 lbm |

1992 VEGP Unit 2 Type A Test

data set 21

time = 1900 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.930) | = 84.930 deg. F |
| temperature 2 | (84.310) | = 84.310 deg. F |
| temperature 3 | (84.830) | = 84.830 deg. F |
| temperature 4 | (84.710) | = 84.710 deg. F |
| temperature 5 | (85.040) | = 85.040 deg. F |
| temperature 6 | (84.940) | = 84.940 deg. F |
| temperature 7 | (84.870) | = 84.870 deg. F |
| temperature 8 | (85.730) | = 85.730 deg. F |
| temperature 9 | (84.830) | = 84.830 deg. F |
| temperature 10 | (84.600) | = 84.600 deg. F |
| temperature 11 | (83.000) | = 83.000 deg. F |
| temperature 12 | (84.710) | = 84.710 deg. F |
| temperature 13 | (83.380) | = 83.380 deg. F |
| temperature 14 | (83.960) | = 83.960 deg. F |
| temperature 15 | (82.760) | = 82.760 deg. F |
| temperature 16 | (82.690) | = 82.690 deg. F |
| temperature 17 | (82.780) | = 82.780 deg. F |
| temperature 18 | (82.620) | = 82.620 deg. F |
| temperature 19 | (80.010) | = 80.010 deg. F |
| temperature 20 | (82.420) | = 82.420 deg. F |
| temperature 21 | (81.360) | = 81.360 deg. F |
| temperature 22 | (80.480) | = 80.480 deg. F |
| temperature 23 | (80.450) | = 80.450 deg. F |
| temperature 24 | (78.830) | = 78.830 deg. F |
| temperature 25 | (80.220) | = 80.220 deg. F |
| temperature 26 | (79.520) | = 79.520 deg. F |
| temperature 27 | (79.490) | = 79.490 deg. F |
| temperature 28 | (78.410) | = 78.410 deg. F |
| temperature 29 | (77.990) | = 77.990 deg. F |
| temperature 30 | (75.730) | = 75.730 deg. F |
| dewpoint 1 | (81.420) | = 81.420 deg. F , 0.5308 psia |
| dewpoint 2 | (79.770) | = 79.770 deg. F , 0.5030 psia |
| dewpoint 3 | (78.430) | = 78.430 deg. F , 0.4814 psia |
| dewpoint 4 | (73.730) | = 73.730 deg. F , 0.4118 psia |
| dewpoint 5 | (73.740) | = 73.740 deg. F , 0.4119 psia |
| dewpoint 6 | (73.530) | = 73.530 deg. F , 0.4090 psia |
| pressure 1 | (59.9321) | = 59.9321 psia |
| pressure 2 | (59.9416) | = 59.9416 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.50003 deg. F |
| pressure | = | 59.93210 psia |
| vapor pressure | = | 0.45976 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814217.22 lbm |

1992 VEGP Unit 2 Type A Test

data set 22

time = 1915 date = 419

| sensor | | raw data | | value | |
|-------------|----|-------------|---|---------------|-------------|
| temperature | 1 | (84.880) | = | 84.880 deg. F | |
| temperature | 2 | (84.260) | = | 84.260 deg. F | |
| temperature | 3 | (84.760) | = | 84.760 deg. F | |
| temperature | 4 | (84.640) | = | 84.640 deg. F | |
| temperature | 5 | (84.990) | = | 84.990 deg. F | |
| temperature | 6 | (84.870) | = | 84.870 deg. F | |
| temperature | 7 | (84.820) | = | 84.820 deg. F | |
| temperature | 8 | (85.670) | = | 85.670 deg. F | |
| temperature | 9 | (84.770) | = | 84.770 deg. F | |
| temperature | 10 | (84.570) | = | 84.570 deg. F | |
| temperature | 11 | (82.950) | = | 82.950 deg. F | |
| temperature | 12 | (84.630) | = | 84.630 deg. F | |
| temperature | 13 | (83.320) | = | 83.320 deg. F | |
| temperature | 14 | (83.910) | = | 83.910 deg. F | |
| temperature | 15 | (82.710) | = | 82.710 deg. F | |
| temperature | 16 | (82.640) | = | 82.640 deg. F | |
| temperature | 17 | (82.720) | = | 82.720 deg. F | |
| temperature | 18 | (82.570) | = | 82.570 deg. F | |
| temperature | 19 | (79.960) | = | 79.960 deg. F | |
| temperature | 20 | (82.340) | = | 82.340 deg. F | |
| temperature | 21 | (81.340) | = | 81.340 deg. F | |
| temperature | 22 | (80.460) | = | 80.460 deg. F | |
| temperature | 23 | (80.440) | = | 80.440 deg. F | |
| temperature | 24 | (78.820) | = | 78.820 deg. F | |
| temperature | 25 | (80.230) | = | 80.230 deg. F | |
| temperature | 26 | (79.510) | = | 79.510 deg. F | |
| temperature | 27 | (79.490) | = | 79.490 deg. F | |
| temperature | 28 | (78.400) | = | 78.400 deg. F | |
| temperature | 29 | (77.990) | = | 77.990 deg. F | |
| temperature | 30 | (75.730) | = | 75.730 deg. F | |
| dewpoint | 1 | (81.410) | = | 81.410 deg. F | 0.5307 psia |
| dewpoint | 2 | (79.700) | = | 79.700 deg. F | 0.5019 psia |
| dewpoint | 3 | (78.370) | = | 78.370 deg. F | 0.4804 psia |
| dewpoint | 4 | (73.750) | = | 73.750 deg. F | 0.4120 psia |
| dewpoint | 5 | (73.910) | = | 73.910 deg. F | 0.4143 psia |
| dewpoint | 6 | (73.550) | = | 73.550 deg. F | 0.4093 psia |
| pressure | 1 | (59.9269) | = | 59.9269 psia | |
| pressure | 2 | (59.9366) | = | 59.9366 psia | |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.45741 deg. F |
| pressure | = | 59.92690 psia |
| vapor pressure | = | 0.45971 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814210.69 lbm |

1992 VEGP Unit 2 Type A Test

data set 23

time = 1930 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.820) | = 84.820 deg. F |
| temperature 2 | (84.190) | = 84.190 deg. F |
| temperature 3 | (84.690) | = 84.690 deg. F |
| temperature 4 | (84.580) | = 84.580 deg. F |
| temperature 5 | (84.910) | = 84.910 deg. F |
| temperature 6 | (84.810) | = 84.810 deg. F |
| temperature 7 | (84.740) | = 84.740 deg. F |
| temperature 8 | (85.580) | = 85.580 deg. F |
| temperature 9 | (84.690) | = 84.690 deg. F |
| temperature 10 | (84.490) | = 84.490 deg. F |
| temperature 11 | (82.890) | = 82.890 deg. F |
| temperature 12 | (84.560) | = 84.560 deg. F |
| temperature 13 | (83.240) | = 83.240 deg. F |
| temperature 14 | (83.850) | = 83.850 deg. F |
| temperature 15 | (82.660) | = 82.660 deg. F |
| temperature 16 | (82.580) | = 82.580 deg. F |
| temperature 17 | (82.670) | = 82.670 deg. F |
| temperature 18 | (82.520) | = 82.520 deg. F |
| temperature 19 | (79.930) | = 79.930 deg. F |
| temperature 20 | (82.300) | = 82.300 deg. F |
| temperature 21 | (81.320) | = 81.320 deg. F |
| temperature 22 | (80.460) | = 80.460 deg. F |
| temperature 23 | (80.430) | = 80.430 deg. F |
| temperature 24 | (78.810) | = 78.810 deg. F |
| temperature 25 | (80.220) | = 80.220 deg. F |
| temperature 26 | (79.500) | = 79.500 deg. F |
| temperature 27 | (79.490) | = 79.490 deg. F |
| temperature 28 | (78.400) | = 78.400 deg. F |
| temperature 29 | (78.000) | = 78.000 deg. F |
| temperature 30 | (75.730) | = 75.730 deg. F |
| dewpoint 1 | (81.380) | = 81.380 deg. F , 0.5302 psia |
| dewpoint 2 | (79.750) | = 79.750 deg. F , 0.5027 psia |
| dewpoint 3 | (78.350) | = 78.350 deg. F , 0.4801 psia |
| dewpoint 4 | (73.620) | = 73.620 deg. F , 0.4102 psia |
| dewpoint 5 | (73.870) | = 73.870 deg. F , 0.4137 psia |
| dewpoint 6 | (73.600) | = 73.600 deg. F , 0.4100 psia |
| pressure 1 | (59.9217) | = 59.9217 psia |
| pressure 2 | (59.9313) | = 59.9313 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.41044 deg. F |
| pressure | = | 59.92170 psia |
| vapor pressure | = | 0.45946 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814213.46 lbm |

1992 VEGP Unit 2 Type A Test

data set 24

time = 1945 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.760) | = 84.760 deg. F |
| temperature 2 | (84.140) | = 84.140 deg. F |
| temperature 3 | (84.660) | = 84.660 deg. F |
| temperature 4 | (84.530) | = 84.530 deg. F |
| temperature 5 | (84.850) | = 84.850 deg. F |
| temperature 6 | (84.750) | = 84.750 deg. F |
| temperature 7 | (84.690) | = 84.690 deg. F |
| temperature 8 | (85.520) | = 85.520 deg. F |
| temperature 9 | (84.630) | = 84.630 deg. F |
| temperature 10 | (84.450) | = 84.450 deg. F |
| temperature 11 | (82.820) | = 82.820 deg. F |
| temperature 12 | (84.500) | = 84.500 deg. F |
| temperature 13 | (83.170) | = 83.170 deg. F |
| temperature 14 | (83.780) | = 83.780 deg. F |
| temperature 15 | (82.610) | = 82.610 deg. F |
| temperature 16 | (82.530) | = 82.530 deg. F |
| temperature 17 | (82.610) | = 82.610 deg. F |
| temperature 18 | (82.450) | = 82.450 deg. F |
| temperature 19 | (79.870) | = 79.870 deg. F |
| temperature 20 | (82.260) | = 82.260 deg. F |
| temperature 21 | (81.300) | = 81.300 deg. F |
| temperature 22 | (80.450) | = 80.450 deg. F |
| temperature 23 | (80.420) | = 80.420 deg. F |
| temperature 24 | (78.800) | = 78.800 deg. F |
| temperature 25 | (80.200) | = 80.200 deg. F |
| temperature 26 | (79.500) | = 79.500 deg. F |
| temperature 27 | (79.470) | = 79.470 deg. F |
| temperature 28 | (78.400) | = 78.400 deg. F |
| temperature 29 | (78.000) | = 78.000 deg. F |
| temperature 30 | (75.710) | = 75.710 deg. F |
| dewpoint 1 | (81.350) | = 81.350 deg. F , 0.5296 psia |
| dewpoint 2 | (79.700) | = 79.700 deg. F , 0.5019 psia |
| dewpoint 3 | (78.340) | = 78.340 deg. F , 0.4800 psia |
| dewpoint 4 | (73.660) | = 73.660 deg. F , 0.4108 psia |
| dewpoint 5 | (73.990) | = 73.990 deg. F , 0.4154 psia |
| dewpoint 6 | (73.650) | = 73.650 deg. F , 0.4107 psia |
| pressure 1 | (59.9165) | = 59.9165 psia |
| pressure 2 | (59.9262) | = 59.9262 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.36736 deg. F |
| pressure | = | 59.91650 psia |
| vapor pressure | = | 0.45961 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814204.87 lbm |

1992 VEGP Unit 2 Type A Test

data set 25

time = 2000 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.690) | = 84.690 deg. F |
| temperature 2 | (84.090) | = 84.090 deg. F |
| temperature 3 | (84.590) | = 84.590 deg. F |
| temperature 4 | (84.470) | = 84.470 deg. F |
| temperature 5 | (84.790) | = 84.790 deg. F |
| temperature 6 | (84.700) | = 84.700 deg. F |
| temperature 7 | (84.610) | = 84.610 deg. F |
| temperature 8 | (85.460) | = 85.460 deg. F |
| temperature 9 | (84.550) | = 84.550 deg. F |
| temperature 10 | (84.370) | = 84.370 deg. F |
| temperature 11 | (82.750) | = 82.750 deg. F |
| temperature 12 | (84.420) | = 84.420 deg. F |
| temperature 13 | (83.130) | = 83.130 deg. F |
| temperature 14 | (83.730) | = 83.730 deg. F |
| temperature 15 | (82.550) | = 82.550 deg. F |
| temperature 16 | (82.470) | = 82.470 deg. F |
| temperature 17 | (82.550) | = 82.550 deg. F |
| temperature 18 | (82.400) | = 82.400 deg. F |
| temperature 19 | (79.830) | = 79.830 deg. F |
| temperature 20 | (82.220) | = 82.220 deg. F |
| temperature 21 | (81.280) | = 81.280 deg. F |
| temperature 22 | (80.440) | = 80.440 deg. F |
| temperature 23 | (80.420) | = 80.420 deg. F |
| temperature 24 | (78.800) | = 78.800 deg. F |
| temperature 25 | (80.210) | = 80.210 deg. F |
| temperature 26 | (79.500) | = 79.500 deg. F |
| temperature 27 | (79.480) | = 79.480 deg. F |
| temperature 28 | (78.400) | = 78.400 deg. F |
| temperature 29 | (78.010) | = 78.010 deg. F |
| temperature 30 | (75.720) | = 75.720 deg. F |
| dewpoint 1 | (81.360) | = 81.360 deg. F , 0.5298 psia |
| dewpoint 2 | (79.690) | = 79.690 deg. F , 0.5017 psia |
| dewpoint 3 | (78.340) | = 78.340 deg. F , 0.4809 psia |
| dewpoint 4 | (73.650) | = 73.650 deg. F , 0.4107 psia |
| dewpoint 5 | (73.950) | = 73.950 deg. F , 0.4148 psia |
| dewpoint 6 | (73.680) | = 73.680 deg. F , 0.4111 psia |
| pressure 1 | (59.9114) | = 59.9114 psia |
| pressure 2 | (59.9211) | = 59.9211 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.32464 deg. F |
| pressure | = | 59.91140 psia |
| vapor pressure | = | 0.45959 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814199.54 lbm |

1992 VEGP Unit 2 Type A Test

data set 26

time = 2015 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.640) | = 84.640 deg. F |
| temperature 2 | (84.030) | = 84.030 deg. F |
| temperature 3 | (84.540) | = 84.540 deg. F |
| temperature 4 | (84.400) | = 84.400 deg. F |
| temperature 5 | (84.720) | = 84.720 deg. F |
| temperature 6 | (84.650) | = 84.650 deg. F |
| temperature 7 | (84.550) | = 84.550 deg. F |
| temperature 8 | (85.390) | = 85.390 deg. F |
| temperature 9 | (84.480) | = 84.480 deg. F |
| temperature 10 | (84.330) | = 84.330 deg. F |
| temperature 11 | (82.690) | = 82.690 deg. F |
| temperature 12 | (84.340) | = 84.340 deg. F |
| temperature 13 | (83.060) | = 83.060 deg. F |
| temperature 14 | (83.660) | = 83.660 deg. F |
| temperature 15 | (82.480) | = 82.480 deg. F |
| temperature 16 | (82.400) | = 82.400 deg. F |
| temperature 17 | (82.500) | = 82.500 deg. F |
| temperature 18 | (82.360) | = 82.360 deg. F |
| temperature 19 | (79.790) | = 79.790 deg. F |
| temperature 20 | (82.150) | = 82.150 deg. F |
| temperature 21 | (81.250) | = 81.250 deg. F |
| temperature 22 | (80.430) | = 80.430 deg. F |
| temperature 23 | (80.400) | = 80.400 deg. F |
| temperature 24 | (78.790) | = 78.790 deg. F |
| temperature 25 | (80.200) | = 80.200 deg. F |
| temperature 26 | (79.490) | = 79.490 deg. F |
| temperature 27 | (79.470) | = 79.470 deg. F |
| temperature 28 | (78.390) | = 78.390 deg. F |
| temperature 29 | (78.000) | = 78.000 deg. F |
| temperature 30 | (75.710) | = 75.710 deg. F |
| dewpoint 1 | (81.340) | = 81.340 deg. F , 0.5295 psia |
| dewpoint 2 | (79.670) | = 79.670 deg. F , 0.5014 psia |
| dewpoint 3 | (78.200) | = 78.200 deg. F , 0.4778 psia |
| dewpoint 4 | (73.690) | = 73.690 deg. F , 0.4112 psia |
| dewpoint 5 | (74.010) | = 74.010 deg. F , 0.4156 psia |
| dewpoint 6 | (73.700) | = 73.700 deg. F , 0.4113 psia |
| pressure 1 | (59.9066) | = 59.9066 psia |
| pressure 2 | (59.9162) | = 59.9162 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.27753 deg. F |
| pressure | = | 59.90660 psia |
| vapor pressure | = | 0.45930 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814208.54 lbm |

1992 VEGP Unit 2 Type A Test

data set 27

time = 2030 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.580) | = 84.580 deg. F |
| temperature 2 | (83.980) | = 83.980 deg. F |
| temperature 3 | (84.480) | = 84.480 deg. F |
| temperature 4 | (84.360) | = 84.360 deg. F |
| temperature 5 | (84.640) | = 84.640 deg. F |
| temperature 6 | (84.570) | = 84.570 deg. F |
| temperature 7 | (84.490) | = 84.490 deg. F |
| temperature 8 | (85.340) | = 85.340 deg. F |
| temperature 9 | (84.400) | = 84.400 deg. F |
| temperature 10 | (84.240) | = 84.240 deg. F |
| temperature 11 | (82.640) | = 82.640 deg. F |
| temperature 12 | (84.250) | = 84.250 deg. F |
| temperature 13 | (83.010) | = 83.010 deg. F |
| temperature 14 | (83.580) | = 83.580 deg. F |
| temperature 15 | (82.440) | = 82.440 deg. F |
| temperature 16 | (82.350) | = 82.350 deg. F |
| temperature 17 | (82.450) | = 82.450 deg. F |
| temperature 18 | (82.310) | = 82.310 deg. F |
| temperature 19 | (79.740) | = 79.740 deg. F |
| temperature 20 | (82.070) | = 82.070 deg. F |
| temperature 21 | (81.220) | = 81.220 deg. F |
| temperature 22 | (80.420) | = 80.420 deg. F |
| temperature 23 | (80.390) | = 80.390 deg. F |
| temperature 24 | (78.770) | = 78.770 deg. F |
| temperature 25 | (80.150) | = 80.150 deg. F |
| temperature 26 | (79.480) | = 79.480 deg. F |
| temperature 27 | (79.450) | = 79.450 deg. F |
| temperature 28 | (78.380) | = 78.380 deg. F |
| temperature 29 | (77.960) | = 77.960 deg. F |
| temperature 30 | (75.690) | = 75.690 deg. F |
| dewpoint 1 | (81.320) | = 81.320 deg. F , 0.5291 psia |
| dewpoint 2 | (79.630) | = 79.630 deg. F , 0.5007 psia |
| dewpoint 3 | (78.270) | = 78.270 deg. F , 0.4789 psia |
| dewpoint 4 | (73.700) | = 73.700 deg. F , 0.4113 psia |
| dewpoint 5 | (74.070) | = 74.070 deg. F , 0.4165 psia |
| dewpoint 6 | (73.730) | = 73.730 deg. F , 0.4118 psia |
| pressure 1 | (59.9008) | = 59.9008 psia |
| pressure 2 | (59.9103) | = 59.9103 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.22725 deg. F |
| pressure | = | 59.90080 psia |
| vapor pressure | = | 0.45953 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814201.46 lbm |

1992 VEGP Unit 2 Type A Test

data set 28

time = 2045 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.480) | = 84.480 deg. F |
| temperature 2 | (83.890) | = 83.890 deg. F |
| temperature 3 | (84.400) | = 84.400 deg. F |
| temperature 4 | (84.280) | = 84.280 deg. F |
| temperature 5 | (84.560) | = 84.560 deg. F |
| temperature 6 | (84.510) | = 84.510 deg. F |
| temperature 7 | (84.440) | = 84.440 deg. F |
| temperature 8 | (85.270) | = 85.270 deg. F |
| temperature 9 | (84.320) | = 84.320 deg. F |
| temperature 10 | (84.170) | = 84.170 deg. F |
| temperature 11 | (82.580) | = 82.580 deg. F |
| temperature 12 | (84.210) | = 84.210 deg. F |
| temperature 13 | (82.920) | = 82.920 deg. F |
| temperature 14 | (83.530) | = 83.530 deg. F |
| temperature 15 | (82.380) | = 82.380 deg. F |
| temperature 16 | (82.290) | = 82.290 deg. F |
| temperature 17 | (82.390) | = 82.390 deg. F |
| temperature 18 | (82.250) | = 82.250 deg. F |
| temperature 19 | (79.700) | = 79.700 deg. F |
| temperature 20 | (82.010) | = 82.010 deg. F |
| temperature 21 | (81.170) | = 81.170 deg. F |
| temperature 22 | (80.390) | = 80.390 deg. F |
| temperature 23 | (80.370) | = 80.370 deg. F |
| temperature 24 | (78.770) | = 78.770 deg. F |
| temperature 25 | (80.120) | = 80.120 deg. F |
| temperature 26 | (79.460) | = 79.460 deg. F |
| temperature 27 | (79.430) | = 79.430 deg. F |
| temperature 28 | (78.360) | = 78.360 deg. F |
| temperature 29 | (77.940) | = 77.940 deg. F |
| temperature 30 | (75.670) | = 75.670 deg. F |
| dewpoint 1 | (81.260) | = 81.260 deg. F , 0.5281 psia |
| dewpoint 2 | (79.570) | = 79.570 deg. F , 0.4997 psia |
| dewpoint 3 | (78.330) | = 78.330 deg. F , 0.4798 psia |
| dewpoint 4 | (73.640) | = 73.640 deg. F , 0.4105 psia |
| dewpoint 5 | (74.220) | = 74.220 deg. F , 0.4186 psia |
| dewpoint 6 | (73.740) | = 73.740 deg. F , 0.4119 psia |
| pressure 1 | (59.8948) | = 59.8948 psia |
| pressure 2 | (59.9044) | = 59.9044 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.17364 deg. F |
| pressure | = | 59.89480 psia |
| vapor pressure | = | 0.45950 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814200.31 lbm |

1992 VEGP Unit 2 Type A Test

data set 29

time = 2100 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.400) | = 84.400 deg. F |
| temperature 2 | (83.790) | = 83.790 deg. F |
| temperature 3 | (84.290) | = 84.290 deg. F |
| temperature 4 | (84.210) | = 84.210 deg. F |
| temperature 5 | (84.480) | = 84.480 deg. F |
| temperature 6 | (84.430) | = 84.430 deg. F |
| temperature 7 | (84.360) | = 84.360 deg. F |
| temperature 8 | (85.210) | = 85.210 deg. F |
| temperature 9 | (84.260) | = 84.260 deg. F |
| temperature 10 | (84.080) | = 84.080 deg. F |
| temperature 11 | (82.510) | = 82.510 deg. F |
| temperature 12 | (84.110) | = 84.110 deg. F |
| temperature 13 | (82.880) | = 82.880 deg. F |
| temperature 14 | (83.470) | = 83.470 deg. F |
| temperature 15 | (82.330) | = 82.330 deg. F |
| temperature 16 | (82.250) | = 82.250 deg. F |
| temperature 17 | (82.340) | = 82.340 deg. F |
| temperature 18 | (82.190) | = 82.190 deg. F |
| temperature 19 | (79.650) | = 79.650 deg. F |
| temperature 20 | (81.990) | = 81.990 deg. F |
| temperature 21 | (81.150) | = 81.150 deg. F |
| temperature 22 | (80.380) | = 80.380 deg. F |
| temperature 23 | (80.350) | = 80.350 deg. F |
| temperature 24 | (78.750) | = 78.750 deg. F |
| temperature 25 | (80.100) | = 80.100 deg. F |
| temperature 26 | (79.460) | = 79.460 deg. F |
| temperature 27 | (79.430) | = 79.430 deg. F |
| temperature 28 | (78.350) | = 78.350 deg. F |
| temperature 29 | (77.930) | = 77.930 deg. F |
| temperature 30 | (75.660) | = 75.660 deg. F |
| dewpoint 1 | (81.250) | = 81.250 deg. F , 0.5279 psia |
| dewpoint 2 | (79.600) | = 79.600 deg. F , 0.5002 psia |
| dewpoint 3 | (78.300) | = 78.300 deg. F , 0.4793 psia |
| dewpoint 4 | (73.720) | = 73.720 deg. F , 0.4116 psia |
| dewpoint 5 | (74.260) | = 74.260 deg. F , 0.4191 psia |
| dewpoint 6 | (73.790) | = 73.790 deg. F , 0.4126 psia |
| pressure 1 | (59.8891) | = 59.8891 psia |
| pressure 2 | (59.8988) | = 59.8988 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.12298 deg. F |
| pressure | = | 59.88910 psia |
| vapor pressure | = | 0.45986 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814193.42 lbm |

1992 VEGP Unit 2 Type A Test

data set 30

time = 2115 date = 419

| sensor | | raw data | | value | |
|-------------|----|-------------|---|---------------|-------------|
| temperature | 1 | (84.330) | = | 84.330 deg. F | |
| temperature | 2 | (83.720) | = | 83.720 deg. F | |
| temperature | 3 | (84.200) | = | 84.200 deg. F | |
| temperature | 4 | (84.150) | = | 84.150 deg. F | |
| temperature | 5 | (84.420) | = | 84.420 deg. F | |
| temperature | 6 | (84.360) | = | 84.360 deg. F | |
| temperature | 7 | (84.280) | = | 84.280 deg. F | |
| temperature | 8 | (85.150) | = | 85.150 deg. F | |
| temperature | 9 | (84.190) | = | 84.190 deg. F | |
| temperature | 10 | (84.000) | = | 84.000 deg. F | |
| temperature | 11 | (82.450) | = | 82.450 deg. F | |
| temperature | 12 | (84.060) | = | 84.060 deg. F | |
| temperature | 13 | (82.820) | = | 82.820 deg. F | |
| temperature | 14 | (83.410) | = | 83.410 deg. F | |
| temperature | 15 | (82.300) | = | 82.300 deg. F | |
| temperature | 16 | (82.190) | = | 82.190 deg. F | |
| temperature | 17 | (82.290) | = | 82.290 deg. F | |
| temperature | 18 | (82.150) | = | 82.150 deg. F | |
| temperature | 19 | (79.610) | = | 79.610 deg. F | |
| temperature | 20 | (81.920) | = | 81.920 deg. F | |
| temperature | 21 | (81.120) | = | 81.120 deg. F | |
| temperature | 22 | (80.350) | = | 80.350 deg. F | |
| temperature | 23 | (80.330) | = | 80.330 deg. F | |
| temperature | 24 | (78.740) | = | 78.740 deg. F | |
| temperature | 25 | (80.080) | = | 80.080 deg. F | |
| temperature | 26 | (79.430) | = | 79.430 deg. F | |
| temperature | 27 | (79.410) | = | 79.410 deg. F | |
| temperature | 28 | (78.320) | = | 78.320 deg. F | |
| temperature | 29 | (77.930) | = | 77.930 deg. F | |
| temperature | 30 | (75.630) | = | 75.630 deg. F | |
| dewpoint | 1 | (81.240) | = | 81.240 deg. F | 0.5277 psia |
| dewpoint | 2 | (79.580) | = | 79.580 deg. F | 0.4999 psia |
| dewpoint | 3 | (78.280) | = | 78.280 deg. F | 0.4790 psia |
| dewpoint | 4 | (73.470) | = | 73.470 deg. F | 0.4082 psia |
| dewpoint | 5 | (74.280) | = | 74.280 deg. F | 0.4194 psia |
| dewpoint | 6 | (73.850) | = | 73.850 deg. F | 0.4134 psia |
| pressure | 1 | (59.8836) | = | 59.8836 psia | |
| pressure | 2 | (59.8934) | = | 59.8934 psia | |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.07309 deg. F |
| pressure | = | 59.88360 psia |
| vapor pressure | = | 0.45927 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814201.02 lbm |

1992 VEGP Unit 2 Type A Test

data set 31

time = 2130 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.260) | = 84.260 deg. F |
| temperature 2 | (83.650) | = 83.650 deg. F |
| temperature 3 | (84.150) | = 84.150 deg. F |
| temperature 4 | (84.080) | = 84.080 deg. F |
| temperature 5 | (84.350) | = 84.350 deg. F |
| temperature 6 | (84.290) | = 84.290 deg. F |
| temperature 7 | (84.220) | = 84.220 deg. F |
| temperature 8 | (85.090) | = 85.090 deg. F |
| temperature 9 | (84.120) | = 84.120 deg. F |
| temperature 10 | (83.960) | = 83.960 deg. F |
| temperature 11 | (82.420) | = 82.420 deg. F |
| temperature 12 | (83.990) | = 83.990 deg. F |
| temperature 13 | (82.760) | = 82.760 deg. F |
| temperature 14 | (83.360) | = 83.360 deg. F |
| temperature 15 | (82.240) | = 82.240 deg. F |
| temperature 16 | (82.140) | = 82.140 deg. F |
| temperature 17 | (82.240) | = 82.240 deg. F |
| temperature 18 | (82.110) | = 82.110 deg. F |
| temperature 19 | (79.580) | = 79.580 deg. F |
| temperature 20 | (81.890) | = 81.890 deg. F |
| temperature 21 | (81.090) | = 81.090 deg. F |
| temperature 22 | (80.330) | = 80.330 deg. F |
| temperature 23 | (80.300) | = 80.300 deg. F |
| temperature 24 | (78.740) | = 78.740 deg. F |
| temperature 25 | (80.060) | = 80.060 deg. F |
| temperature 26 | (79.420) | = 79.420 deg. F |
| temperature 27 | (79.390) | = 79.390 deg. F |
| temperature 28 | (78.320) | = 78.320 deg. F |
| temperature 29 | (77.920) | = 77.920 deg. F |
| temperature 30 | (75.630) | = 75.630 deg. F |
| dewpoint 1 | (81.220) | = 81.220 deg. F , 0.5274 psia |
| dewpoint 2 | (79.580) | = 79.580 deg. F , 0.4999 psia |
| dewpoint 3 | (78.220) | = 78.220 deg. F , 0.4781 psia |
| dewpoint 4 | (73.590) | = 73.590 deg. F , 0.4098 psia |
| dewpoint 5 | (74.420) | = 74.420 deg. F , 0.4214 psia |
| dewpoint 6 | (73.870) | = 73.870 deg. F , 0.4137 psia |
| pressure 1 | (59.8784) | = 59.8784 psia |
| pressure 2 | (59.8883) | = 59.8883 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 82.03002 deg. F |
| pressure | = | 59.87840 psia |
| vapor pressure | = | 0.45962 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814189.79 lbm |

1992 VEGP Unit 2 Type A Test

data set 32

time = 2145 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.200) | = 84.200 deg. F |
| temperature 2 | (83.590) | = 83.590 deg. F |
| temperature 3 | (84.080) | = 84.080 deg. F |
| temperature 4 | (84.000) | = 84.000 deg. F |
| temperature 5 | (84.290) | = 84.290 deg. F |
| temperature 6 | (84.220) | = 84.220 deg. F |
| temperature 7 | (84.160) | = 84.160 deg. F |
| temperature 8 | (85.040) | = 85.040 deg. F |
| temperature 9 | (84.050) | = 84.050 deg. F |
| temperature 10 | (83.910) | = 83.910 deg. F |
| temperature 11 | (82.360) | = 82.360 deg. F |
| temperature 12 | (83.910) | = 83.910 deg. F |
| temperature 13 | (82.720) | = 82.720 deg. F |
| temperature 14 | (83.310) | = 83.310 deg. F |
| temperature 15 | (82.190) | = 82.190 deg. F |
| temperature 16 | (82.090) | = 82.090 deg. F |
| temperature 17 | (82.190) | = 82.190 deg. F |
| temperature 18 | (82.050) | = 82.050 deg. F |
| temperature 19 | (79.530) | = 79.530 deg. F |
| temperature 20 | (81.840) | = 81.840 deg. F |
| temperature 21 | (81.070) | = 81.070 deg. F |
| temperature 22 | (80.340) | = 80.340 deg. F |
| temperature 23 | (80.290) | = 80.290 deg. F |
| temperature 24 | (78.730) | = 78.730 deg. F |
| temperature 25 | (80.060) | = 80.060 deg. F |
| temperature 26 | (79.410) | = 79.410 deg. F |
| temperature 27 | (79.400) | = 79.400 deg. F |
| temperature 28 | (78.330) | = 78.330 deg. F |
| temperature 29 | (77.910) | = 77.910 deg. F |
| temperature 30 | (75.620) | = 75.620 deg. F |
| dewpoint 1 | (81.170) | = 81.170 deg. F , 0.5265 psia |
| dewpoint 2 | (79.490) | = 79.490 deg. F , 0.4984 psia |
| dewpoint 3 | (78.160) | = 78.160 deg. F , 0.4771 psia |
| dewpoint 4 | (73.560) | = 73.560 deg. F , 0.4094 psia |
| dewpoint 5 | (74.380) | = 74.380 deg. F , 0.4208 psia |
| dewpoint 6 | (73.920) | = 73.920 deg. F , 0.4144 psia |
| pressure 1 | (59.8735) | = 59.8735 psia |
| pressure 2 | (59.8834) | = 59.8834 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.98744 deg. F |
| pressure | = | 59.87350 psia |
| vapor pressure | = | 0.45901 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814194.99 lbm |

1992 VEGP Unit 2 Type A Test

data set 33

time = 2200 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.120) | = 84.120 deg. F |
| temperature 2 | (83.520) | = 83.520 deg. F |
| temperature 3 | (84.010) | = 84.010 deg. F |
| temperature 4 | (83.950) | = 83.950 deg. F |
| temperature 5 | (84.230) | = 84.230 deg. F |
| temperature 6 | (84.170) | = 84.170 deg. F |
| temperature 7 | (84.080) | = 84.080 deg. F |
| temperature 8 | (84.950) | = 84.350 deg. F |
| temperature 9 | (83.990) | = 83.990 deg. F |
| temperature 10 | (83.820) | = 83.820 deg. F |
| temperature 11 | (82.300) | = 82.300 deg. F |
| temperature 12 | (83.850) | = 83.850 deg. F |
| temperature 13 | (82.670) | = 82.670 deg. F |
| temperature 14 | (83.250) | = 83.250 deg. F |
| temperature 15 | (82.140) | = 82.140 deg. F |
| temperature 16 | (82.040) | = 82.040 deg. F |
| temperature 17 | (82.140) | = 82.140 deg. F |
| temperature 18 | (81.990) | = 81.990 deg. F |
| temperature 19 | (79.480) | = 79.480 deg. F |
| temperature 20 | (81.790) | = 81.790 deg. F |
| temperature 21 | (81.040) | = 81.040 deg. F |
| temperature 22 | (80.300) | = 80.300 deg. F |
| temperature 23 | (80.270) | = 80.270 deg. F |
| temperature 24 | (78.720) | = 78.720 deg. F |
| temperature 25 | (80.040) | = 80.040 deg. F |
| temperature 26 | (79.390) | = 79.390 deg. F |
| temperature 27 | (79.380) | = 79.380 deg. F |
| temperature 28 | (78.310) | = 78.310 deg. F |
| temperature 29 | (77.890) | = 77.890 deg. F |
| temperature 30 | (75.600) | = 75.600 deg. F |
| dewpoint 1 | (81.170) | = 81.170 deg. F , 0.5265 psia |
| dewpoint 2 | (79.490) | = 79.490 deg. F , 0.4984 psia |
| dewpoint 3 | (78.150) | = 78.150 deg. F , 0.4770 psia |
| dewpoint 4 | (73.700) | = 73.700 deg. F , 0.4113 psia |
| dewpoint 5 | (74.440) | = 74.440 deg. F , 0.4217 psia |
| dewpoint 6 | (73.930) | = 73.930 deg. F , 0.4145 psia |
| pressure 1 | (59.8689) | = 59.8689 psia |
| pressure 2 | (59.8787) | = 59.8787 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.93732 deg. F |
| pressure | = | 59.86890 psia |
| vapor pressure | = | 0.45945 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814201.29 lbm |

1992 VEGP Unit 2 Type A Test

data set 34

time = 2215 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.070) | = 84.070 deg. F |
| temperature 2 | (83.460) | = 83.460 deg. F |
| temperature 3 | (83.940) | = 83.940 deg. F |
| temperature 4 | (83.880) | = 83.880 deg. F |
| temperature 5 | (84.170) | = 84.170 deg. F |
| temperature 6 | (84.110) | = 84.110 deg. F |
| temperature 7 | (84.030) | = 84.030 deg. F |
| temperature 8 | (84.900) | = 84.900 deg. F |
| temperature 9 | (83.910) | = 83.910 deg. F |
| temperature 10 | (83.760) | = 83.760 deg. F |
| temperature 11 | (82.260) | = 82.260 deg. F |
| temperature 12 | (83.800) | = 83.800 deg. F |
| temperature 13 | (82.610) | = 82.610 deg. F |
| temperature 14 | (83.210) | = 83.210 deg. F |
| temperature 15 | (82.080) | = 82.080 deg. F |
| temperature 16 | (81.990) | = 81.990 deg. F |
| temperature 17 | (82.100) | = 82.100 deg. F |
| temperature 18 | (81.950) | = 81.950 deg. F |
| temperature 19 | (79.440) | = 79.440 deg. F |
| temperature 20 | (81.760) | = 81.760 deg. F |
| temperature 21 | (81.030) | = 81.030 deg. F |
| temperature 22 | (80.300) | = 80.300 deg. F |
| temperature 23 | (80.270) | = 80.270 deg. F |
| temperature 24 | (78.710) | = 78.710 deg. F |
| temperature 25 | (80.040) | = 80.040 deg. F |
| temperature 26 | (79.390) | = 79.390 deg. F |
| temperature 27 | (79.370) | = 79.370 deg. F |
| temperature 28 | (78.310) | = 78.310 deg. F |
| temperature 29 | (77.900) | = 77.900 deg. F |
| temperature 30 | (75.600) | = 75.600 deg. F |
| dewpoint 1 | (81.150) | = 81.150 deg. F , 0.5262 psia |
| dewpoint 2 | (79.420) | = 79.420 deg. F , 0.4973 psia |
| dewpoint 3 | (78.130) | = 78.130 deg. F , 0.4767 psia |
| dewpoint 4 | (73.680) | = 73.680 deg. F , 0.4111 psia |
| dewpoint 5 | (74.520) | = 74.520 deg. F , 0.4228 psia |
| dewpoint 6 | (73.970) | = 73.970 deg. F , 0.4151 psia |
| pressure 1 | (59.8643) | = 59.8643 psia |
| pressure 2 | (59.8741) | = 59.8741 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.89922 deg. F |
| pressure | = | 59.86430 psia |
| vapor pressure | = | 0.45930 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814197.51 lbm |

1992 VEGP Unit 2 Type A Test

data set 35

time = 2230 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (84.020) | = 84.020 deg. F |
| temperature 2 | (83.410) | = 83.410 deg. F |
| temperature 3 | (83.910) | = 83.910 deg. F |
| temperature 4 | (83.830) | = 83.830 deg. F |
| temperature 5 | (84.120) | = 84.120 deg. F |
| temperature 6 | (84.060) | = 84.060 deg. F |
| temperature 7 | (83.970) | = 83.970 deg. F |
| temperature 8 | (84.870) | = 84.870 deg. F |
| temperature 9 | (83.870) | = 83.870 deg. F |
| temperature 10 | (83.700) | = 83.700 deg. F |
| temperature 11 | (82.210) | = 82.210 deg. F |
| temperature 12 | (83.740) | = 83.740 deg. F |
| temperature 13 | (82.580) | = 82.580 deg. F |
| temperature 14 | (83.170) | = 83.170 deg. F |
| temperature 15 | (82.050) | = 82.050 deg. F |
| temperature 16 | (81.950) | = 81.950 deg. F |
| temperature 17 | (82.070) | = 82.070 deg. F |
| temperature 18 | (81.910) | = 81.910 deg. F |
| temperature 19 | (79.390) | = 79.390 deg. F |
| temperature 20 | (81.710) | = 81.710 deg. F |
| temperature 21 | (81.000) | = 81.000 deg. F |
| temperature 22 | (80.290) | = 80.290 deg. F |
| temperature 23 | (80.250) | = 80.250 deg. F |
| temperature 24 | (78.690) | = 78.690 deg. F |
| temperature 25 | (80.020) | = 80.020 deg. F |
| temperature 26 | (79.370) | = 79.370 deg. F |
| temperature 27 | (79.350) | = 79.350 deg. F |
| temperature 28 | (78.300) | = 78.300 deg. F |
| temperature 29 | (77.880) | = 77.880 deg. F |
| temperature 30 | (75.600) | = 75.600 deg. F |
| dewpoint 1 | (81.100) | = 81.100 deg. F , 0.5253 psia |
| dewpoint 2 | (79.500) | = 79.500 deg. F , 0.4986 psia |
| dewpoint 3 | (78.110) | = 78.110 deg. F , 0.4763 psia |
| dewpoint 4 | (73.700) | = 73.700 deg. F , 0.4113 psia |
| dewpoint 5 | (74.530) | = 74.530 deg. F , 0.4229 psia |
| dewpoint 6 | (73.980) | = 73.980 deg. F , 0.4152 psia |
| pressure 1 | (59.8597) | = 59.8597 psia |
| pressure 2 | (59.8694) | = 59.8694 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.86298 deg. F |
| pressure | = | 59.85970 psia |
| vapor pressure | = | 0.45945 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814186.92 lbm |

1992 VEGP Unit 2 Type A Test

data set 36

time = 2245 date = 419

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.970) | = 83.970 deg. F |
| temperature 2 | (83.370) | = 83.370 deg. F |
| temperature 3 | (83.850) | = 83.850 deg. F |
| temperature 4 | (83.790) | = 83.790 deg. F |
| temperature 5 | (84.060) | = 84.060 deg. F |
| temperature 6 | (84.000) | = 84.000 deg. F |
| temperature 7 | (83.910) | = 83.910 deg. F |
| temperature 8 | (84.790) | = 84.790 deg. F |
| temperature 9 | (83.810) | = 83.810 deg. F |
| temperature 10 | (83.680) | = 83.680 deg. F |
| temperature 11 | (82.180) | = 82.180 deg. F |
| temperature 12 | (83.660) | = 83.660 deg. F |
| temperature 13 | (82.530) | = 82.530 deg. F |
| temperature 14 | (83.120) | = 83.120 deg. F |
| temperature 15 | (82.020) | = 82.020 deg. F |
| temperature 16 | (81.910) | = 81.910 deg. F |
| temperature 17 | (82.010) | = 82.010 deg. F |
| temperature 18 | (81.880) | = 81.880 deg. F |
| temperature 19 | (79.360) | = 79.360 deg. F |
| temperature 20 | (81.660) | = 81.660 deg. F |
| temperature 21 | (80.980) | = 80.980 deg. F |
| temperature 22 | (80.280) | = 80.280 deg. F |
| temperature 23 | (80.240) | = 80.240 deg. F |
| temperature 24 | (78.680) | = 78.680 deg. F |
| temperature 25 | (80.010) | = 80.010 deg. F |
| temperature 26 | (79.360) | = 79.360 deg. F |
| temperature 27 | (79.350) | = 79.350 deg. F |
| temperature 28 | (78.300) | = 78.300 deg. F |
| temperature 29 | (77.880) | = 77.880 deg. F |
| temperature 30 | (75.580) | = 75.580 deg. F |
| dewpoint 1 | (81.070) | = 81.070 deg. F , 0.5248 psia |
| dewpoint 2 | (79.470) | = 79.470 deg. F , 0.4981 psia |
| dewpoint 3 | (78.100) | = 78.100 deg. F , 0.4762 psia |
| dewpoint 4 | (73.720) | = 73.720 deg. F , 0.4116 psia |
| dewpoint 5 | (74.550) | = 74.550 deg. F , 0.4232 psia |
| dewpoint 6 | (73.980) | = 73.980 deg. F , 0.4152 psia |
| pressure 1 | (59.8553) | = 59.8553 psia |
| pressure 2 | (59.8651) | = 59.8651 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.82546 deg. F |
| pressure | = | 59.85530 psia |
| vapor pressure | = | 0.45933 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814184.63 lbm |

1992 VEGP Unit 2 Verification

data set 1

time = 0 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.720) | = 83.720 deg. F |
| temperature 2 | (83.100) | = 83.100 deg. F |
| temperature 3 | (83.590) | = 83.590 deg. F |
| temperature 4 | (83.530) | = 83.530 deg. F |
| temperature 5 | (83.780) | = 83.780 deg. F |
| temperature 6 | (83.730) | = 83.730 deg. F |
| temperature 7 | (83.640) | = 83.640 deg. F |
| temperature 8 | (84.540) | = 84.540 deg. F |
| temperature 9 | (83.520) | = 83.520 deg. F |
| temperature 10 | (83.400) | = 83.400 deg. F |
| temperature 11 | (81.940) | = 81.940 deg. F |
| temperature 12 | (83.420) | = 83.420 deg. F |
| temperature 13 | (82.290) | = 82.290 deg. F |
| temperature 14 | (82.890) | = 82.890 deg. F |
| temperature 15 | (81.800) | = 81.800 deg. F |
| temperature 16 | (81.690) | = 81.690 deg. F |
| temperature 17 | (81.800) | = 81.800 deg. F |
| temperature 18 | (81.660) | = 81.660 deg. F |
| temperature 19 | (79.180) | = 79.180 deg. F |
| temperature 20 | (81.480) | = 81.480 deg. F |
| temperature 21 | (80.880) | = 80.880 deg. F |
| temperature 22 | (80.210) | = 80.210 deg. F |
| temperature 23 | (80.180) | = 80.180 deg. F |
| temperature 24 | (78.660) | = 78.660 deg. F |
| temperature 25 | (79.970) | = 79.970 deg. F |
| temperature 26 | (79.330) | = 79.330 deg. F |
| temperature 27 | (79.330) | = 79.330 deg. F |
| temperature 28 | (78.270) | = 78.270 deg. F |
| temperature 29 | (77.880) | = 77.880 deg. F |
| temperature 30 | (75.560) | = 75.560 deg. F |
| dewpoint 1 | (81.010) | = 81.010 deg. F , 0.5238 psia |
| dewpoint 2 | (79.380) | = 79.380 deg. F , 0.4966 psia |
| dewpoint 3 | (78.030) | = 78.030 deg. F , 0.4751 psia |
| dewpoint 4 | (73.640) | = 73.640 deg. F , 0.4105 psia |
| dewpoint 5 | (74.700) | = 74.700 deg. F , 0.4254 psia |
| dewpoint 6 | (74.050) | = 74.050 deg. F , 0.4162 psia |
| pressure 1 | (59.8289) | = 59.8289 psia |
| pressure 2 | (59.8387) | = 59.8387 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.64133 deg. F |
| pressure | = | 59.82890 psia |
| vapor pressure | = | 0.45892 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814105.24 lbm |

1992 VEGP Unit 2 Verification

data set 2

time = 15 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.680) | = 83.680 deg. F |
| temperature 2 | (83.050) | = 83.050 deg. F |
| temperature 3 | (83.560) | = 83.560 deg. F |
| temperature 4 | (83.490) | = 83.490 deg. F |
| temperature 5 | (83.740) | = 83.740 deg. F |
| temperature 6 | (83.680) | = 83.680 deg. F |
| temperature 7 | (83.520) | = 83.590 deg. F |
| temperature 8 | (84.480) | = 84.480 deg. F |
| temperature 9 | (83.460) | = 83.460 deg. F |
| temperature 10 | (83.340) | = 83.340 deg. F |
| temperature 11 | (81.900) | = 81.900 deg. F |
| temperature 12 | (83.360) | = 83.360 deg. F |
| temperature 13 | (82.240) | = 82.240 deg. F |
| temperature 14 | (82.860) | = 82.860 deg. F |
| temperature 15 | (81.770) | = 81.770 deg. F |
| temperature 16 | (81.660) | = 81.660 deg. F |
| temperature 17 | (81.760) | = 81.760 deg. F |
| temperature 18 | (81.620) | = 81.620 deg. F |
| temperature 19 | (79.150) | = 79.150 deg. F |
| temperature 20 | (81.440) | = 81.440 deg. F |
| temperature 21 | (80.860) | = 80.860 deg. F |
| temperature 22 | (80.200) | = 80.200 deg. F |
| temperature 23 | (80.170) | = 80.170 deg. F |
| temperature 24 | (78.640) | = 78.640 deg. F |
| temperature 25 | (79.950) | = 79.950 deg. F |
| temperature 26 | (79.320) | = 79.320 deg. F |
| temperature 27 | (79.320) | = 79.320 deg. F |
| temperature 28 | (78.280) | = 78.280 deg. F |
| temperature 29 | (77.870) | = 77.870 deg. F |
| temperature 30 | (75.550) | = 75.550 deg. F |
| dewpoint 1 | (81.010) | = 81.010 deg. F , 0.5238 psia |
| dewpoint 2 | (79.320) | = 79.320 deg. F , 0.4957 psia |
| dewpoint 3 | (77.940) | = 77.940 deg. F , 0.4737 psia |
| dewpoint 4 | (73.580) | = 73.580 deg. F , 0.4097 psia |
| dewpoint 5 | (74.690) | = 74.690 deg. F , 0.4252 psia |
| dewpoint 6 | (74.080) | = 74.080 deg. F , 0.4166 psia |
| pressure 1 | (59.8238) | = 59.8238 psia |
| pressure 2 | (59.8336) | = 59.8336 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.60735 deg. F |
| pressure | = | 59.82380 psia |
| vapor pressure | = | 0.45838 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814093.86 lbm |

1992 VEGP Unit 2 Verification

data set 3

time = 30 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.630) | = 83.630 deg. F |
| temperature 2 | (83.010) | = 83.010 deg. F |
| temperature 3 | (83.520) | = 83.520 deg. F |
| temperature 4 | (83.430) | = 83.430 deg. F |
| temperature 5 | (83.690) | = 83.690 deg. F |
| temperature 6 | (83.640) | = 83.640 deg. F |
| temperature 7 | (83.550) | = 83.550 deg. F |
| temperature 8 | (84.430) | = 84.430 deg. F |
| temperature 9 | (83.400) | = 83.400 deg. F |
| temperature 10 | (83.310) | = 83.310 deg. F |
| temperature 11 | (81.870) | = 81.870 deg. F |
| temperature 12 | (83.300) | = 83.300 deg. F |
| temperature 13 | (82.210) | = 82.210 deg. F |
| temperature 14 | (82.820) | = 82.820 deg. F |
| temperature 15 | (81.730) | = 81.730 deg. F |
| temperature 16 | (81.620) | = 81.620 deg. F |
| temperature 17 | (81.740) | = 81.740 deg. F |
| temperature 18 | (81.590) | = 81.590 deg. F |
| temperature 19 | (79.140) | = 79.140 deg. F |
| temperature 20 | (81.410) | = 81.410 deg. F |
| temperature 21 | (80.830) | = 80.830 deg. F |
| temperature 22 | (80.190) | = 80.190 deg. F |
| temperature 23 | (80.160) | = 80.160 deg. F |
| temperature 24 | (78.640) | = 78.640 deg. F |
| temperature 25 | (79.940) | = 79.940 deg. F |
| temperature 26 | (79.310) | = 79.310 deg. F |
| temperature 27 | (79.310) | = 79.310 deg. F |
| temperature 28 | (78.280) | = 78.280 deg. F |
| temperature 29 | (77.870) | = 77.870 deg. F |
| temperature 30 | (75.540) | = 75.540 deg. F |
| dewpoint 1 | (80.930) | = 80.930 deg. F , 0.5224 psia |
| dewpoint 2 | (79.290) | = 79.290 deg. F , 0.4952 psia |
| dewpoint 3 | (77.910) | = 77.910 deg. F , 0.4732 psia |
| dewpoint 4 | (73.700) | = 73.700 deg. F , 0.4113 psia |
| dewpoint 5 | (74.780) | = 74.780 deg. F , 0.4265 psia |
| dewpoint 6 | (74.100) | = 74.100 deg. F , 0.4169 psia |
| pressure 1 | (59.8187) | = 59.8187 psia |
| pressure 2 | (59.8286) | = 59.8286 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.57660 deg. F |
| pressure | = | 59.81870 psia |
| vapor pressure | = | 0.45848 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814068.69 lbm |

1992 VEGP Unit 2 Verification

data set 4

time = 45 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.600) | = 83.600 deg. F |
| temperature 2 | (82.970) | = 82.970 deg. F |
| temperature 3 | (83.480) | = 83.480 deg. F |
| temperature 4 | (83.400) | = 83.400 deg. F |
| temperature 5 | (83.650) | = 83.650 deg. F |
| temperature 6 | (83.600) | = 83.600 deg. F |
| temperature 7 | (83.510) | = 83.510 deg. F |
| temperature 8 | (84.390) | = 84.390 deg. F |
| temperature 9 | (83.360) | = 83.360 deg. F |
| temperature 10 | (83.270) | = 83.270 deg. F |
| temperature 11 | (81.830) | = 81.830 deg. F |
| temperature 12 | (83.250) | = 83.250 deg. F |
| temperature 13 | (82.160) | = 82.160 deg. F |
| temperature 14 | (82.780) | = 82.780 deg. F |
| temperature 15 | (81.710) | = 81.710 deg. F |
| temperature 16 | (81.600) | = 81.600 deg. F |
| temperature 17 | (81.700) | = 81.700 deg. F |
| temperature 18 | (81.550) | = 81.550 deg. F |
| temperature 19 | (79.100) | = 79.100 deg. F |
| temperature 20 | (81.380) | = 81.380 deg. F |
| temperature 21 | (80.820) | = 80.820 deg. F |
| temperature 22 | (80.180) | = 80.180 deg. F |
| temperature 23 | (80.160) | = 80.160 deg. F |
| temperature 24 | (78.630) | = 78.630 deg. F |
| temperature 25 | (79.950) | = 79.950 deg. F |
| temperature 26 | (79.310) | = 79.310 deg. F |
| temperature 27 | (79.310) | = 79.310 deg. F |
| temperature 28 | (78.270) | = 78.270 deg. F |
| temperature 29 | (77.880) | = 77.880 deg. F |
| temperature 30 | (75.550) | = 75.550 deg. F |
| dewpoint 1 | (80.900) | = 80.900 deg. F , 0.5219 psia |
| dewpoint 2 | (79.320) | = 79.320 deg. F , 0.4957 psia |
| dewpoint 3 | (77.940) | = 77.940 deg. F , 0.4737 psia |
| dewpoint 4 | (73.550) | = 73.550 deg. F , 0.4093 psia |
| dewpoint 5 | (74.810) | = 74.810 deg. F , 0.4269 psia |
| dewpoint 6 | (74.110) | = 74.110 deg. F , 0.4170 psia |
| pressure 1 | (59.8137) | = 59.8137 psia |
| pressure 2 | (59.8235) | = 59.8235 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.54965 deg. F |
| pressure | = | 59.81370 psia |
| vapor pressure | = | 0.45829 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814043.27 lbm |

1992 VEGP Unit 2 Verification

data set 5

time = 100 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.550) | = 83.550 deg. F |
| temperature 2 | (82.920) | = 82.920 deg. F |
| temperature 3 | (83.440) | = 83.440 deg. F |
| temperature 4 | (83.350) | = 83.350 deg. F |
| temperature 5 | (83.600) | = 83.600 deg. F |
| temperature 6 | (83.560) | = 83.560 deg. F |
| temperature 7 | (83.440) | = 83.440 deg. F |
| temperature 8 | (84.330) | = 84.330 deg. F |
| temperature 9 | (83.310) | = 83.310 deg. F |
| temperature 10 | (83.240) | = 83.240 deg. F |
| temperature 11 | (81.780) | = 81.780 deg. F |
| temperature 12 | (83.210) | = 83.210 deg. F |
| temperature 13 | (82.130) | = 82.130 deg. F |
| temperature 14 | (82.740) | = 82.740 deg. F |
| temperature 15 | (81.660) | = 81.660 deg. F |
| temperature 16 | (81.560) | = 81.560 deg. F |
| temperature 17 | (81.650) | = 81.650 deg. F |
| temperature 18 | (81.520) | = 81.520 deg. F |
| temperature 19 | (79.070) | = 79.070 deg. F |
| temperature 20 | (81.360) | = 81.360 deg. F |
| temperature 21 | (80.800) | = 80.800 deg. F |
| temperature 22 | (80.170) | = 80.170 deg. F |
| temperature 23 | (80.160) | = 80.160 deg. F |
| temperature 24 | (78.630) | = 78.630 deg. F |
| temperature 25 | (79.940) | = 79.940 deg. F |
| temperature 26 | (79.300) | = 79.300 deg. F |
| temperature 27 | (79.310) | = 79.310 deg. F |
| temperature 28 | (78.270) | = 78.270 deg. F |
| temperature 29 | (77.870) | = 77.870 deg. F |
| temperature 30 | (75.540) | = 75.540 deg. F |
| dewpoint 1 | (80.910) | = 80.910 deg. F , 0.5221 psia |
| dewpoint 2 | (79.270) | = 79.270 deg. F , 0.4949 psia |
| dewpoint 3 | (77.890) | = 77.890 deg. F , 0.4729 psia |
| dewpoint 4 | (73.580) | = 73.580 deg. F , 0.4097 psia |
| dewpoint 5 | (74.790) | = 74.790 deg. F , 0.4266 psia |
| dewpoint 6 | (74.110) | = 74.110 deg. F , 0.4170 psia |
| pressure 1 | (59.8089) | = 59.8089 psia |
| pressure 2 | (59.8185) | = 59.8185 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.51676 deg. F |
| pressure | = | 59.80890 psia |
| vapor pressure | = | 0.45806 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814030.12 lbm |

1992 VEGP Unit 2 Verificatio

data set 6

time = 115 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.500) | = 83.500 deg. F |
| temperature 2 | (82.880) | = 82.880 deg. F |
| temperature 3 | (83.400) | = 83.400 deg. F |
| temperature 4 | (83.310) | = 83.310 deg. F |
| temperature 5 | (83.550) | = 83.550 deg. F |
| temperature 6 | (83.520) | = 83.520 deg. F |
| temperature 7 | (83.420) | = 83.420 deg. F |
| temperature 8 | (84.290) | = 84.290 deg. F |
| temperature 9 | (83.260) | = 83.260 deg. F |
| temperature 10 | (83.160) | = 83.160 deg. F |
| temperature 11 | (81.740) | = 81.740 deg. F |
| temperature 12 | (83.160) | = 83.160 deg. F |
| temperature 13 | (82.090) | = 82.090 deg. F |
| temperature 14 | (82.690) | = 82.690 deg. F |
| temperature 15 | (81.630) | = 81.630 deg. F |
| temperature 16 | (81.510) | = 81.510 deg. F |
| temperature 17 | (81.620) | = 81.620 deg. F |
| temperature 18 | (81.490) | = 81.490 deg. F |
| temperature 19 | (79.050) | = 79.050 deg. F |
| temperature 20 | (81.310) | = 81.310 deg. F |
| temperature 21 | (80.780) | = 80.780 deg. F |
| temperature 22 | (80.140) | = 80.140 deg. F |
| temperature 23 | (80.140) | = 80.140 deg. F |
| temperature 24 | (78.620) | = 78.620 deg. F |
| temperature 25 | (79.920) | = 79.920 deg. F |
| temperature 26 | (79.280) | = 79.280 deg. F |
| temperature 27 | (79.300) | = 79.300 deg. F |
| temperature 28 | (78.270) | = 78.270 deg. F |
| temperature 29 | (77.860) | = 77.860 deg. F |
| temperature 30 | (75.530) | = 75.530 deg. F |
| dewpoint 1 | (80.860) | = 80.860 deg. F , 0.5213 psia |
| dewpoint 2 | (79.270) | = 79.270 deg. F , 0.4949 psia |
| dewpoint 3 | (77.890) | = 77.890 deg. F , 0.4729 psia |
| dewpoint 4 | (73.660) | = 73.660 deg. F , 0.4108 psia |
| dewpoint 5 | (74.750) | = 74.750 deg. F , 0.4267 psia |
| dewpoint 6 | (74.120) | = 74.120 deg. F , 0.4111 psia |
| pressure 1 | (59.8043) | = 59.8043 psia |
| pressure 2 | (59.8139) | = 59.8139 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.48255 deg. F |
| pressure | = | 59.80430 psia |
| vapor pressure | = | 0.45808 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 814018.14 lbm |

1992 VEGP Unit 2 Verification

data set 7

time = 130 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.470) | = 83.470 deg. F |
| temperature 2 | (82.850) | = 82.850 deg. F |
| temperature 3 | (83.350) | = 83.350 deg. F |
| temperature 4 | (83.260) | = 83.260 deg. F |
| temperature 5 | (83.510) | = 83.510 deg. F |
| temperature 6 | (83.470) | = 83.470 deg. F |
| temperature 7 | (83.410) | = 83.410 deg. F |
| temperature 8 | (84.240) | = 84.240 deg. F |
| temperature 9 | (83.200) | = 83.200 deg. F |
| temperature 10 | (83.130) | = 83.130 deg. F |
| temperature 11 | (81.700) | = 81.700 deg. F |
| temperature 12 | (83.110) | = 83.110 deg. F |
| temperature 13 | (82.060) | = 82.060 deg. F |
| temperature 14 | (82.660) | = 82.660 deg. F |
| temperature 15 | (81.590) | = 81.590 deg. F |
| temperature 16 | (81.480) | = 81.480 deg. F |
| temperature 17 | (81.580) | = 81.580 deg. F |
| temperature 18 | (81.460) | = 81.460 deg. F |
| temperature 19 | (79.030) | = 79.030 deg. F |
| temperature 20 | (81.280) | = 81.280 deg. F |
| temperature 21 | (80.760) | = 80.760 deg. F |
| temperature 22 | (80.130) | = 80.130 deg. F |
| temperature 23 | (80.140) | = 80.140 deg. F |
| temperature 24 | (78.620) | = 78.620 deg. F |
| temperature 25 | (79.920) | = 79.920 deg. F |
| temperature 26 | (79.280) | = 79.280 deg. F |
| temperature 27 | (79.290) | = 79.290 deg. F |
| temperature 28 | (78.270) | = 78.270 deg. F |
| temperature 29 | (77.860) | = 77.860 deg. F |
| temperature 30 | (75.520) | = 75.520 deg. F |
| dewpoint 1 | (80.830) | = 80.830 deg. F , 0.5207 psia |
| dewpoint 2 | (79.230) | = 79.230 deg. F , 0.4942 psia |
| dewpoint 3 | (77.920) | = 77.920 deg. F , 0.4734 psia |
| dewpoint 4 | (73.640) | = 73.640 deg. F , 0.4105 psia |
| dewpoint 5 | (74.690) | = 74.690 deg. F , 0.4252 psia |
| dewpoint 6 | (74.130) | = 74.130 deg. F , 0.4173 psia |
| pressure 1 | (59.7995) | = 59.7995 psia |
| pressure 2 | (59.8091) | = 59.8091 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.45444 deg. F |
| pressure | = | 59.79950 psia |
| vapor pressure | = | 0.45785 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813997.85 lbm |

1992 VEGP Unit 2 Verification

data set 8

time = 145 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.430) | = 83.430 deg. F |
| temperature 2 | (82.810) | = 82.810 deg. F |
| temperature 3 | (83.300) | = 83.300 deg. F |
| temperature 4 | (83.230) | = 83.230 deg. F |
| temperature 5 | (83.450) | = 83.450 deg. F |
| temperature 6 | (83.430) | = 83.430 deg. F |
| temperature 7 | (83.310) | = 83.310 deg. F |
| temperature 8 | (84.190) | = 84.190 deg. F |
| temperature 9 | (83.160) | = 83.160 deg. F |
| temperature 10 | (83.090) | = 83.090 deg. F |
| temperature 11 | (81.660) | = 81.660 deg. F |
| temperature 12 | (83.080) | = 83.080 deg. F |
| temperature 13 | (82.010) | = 82.010 deg. F |
| temperature 14 | (82.610) | = 82.610 deg. F |
| temperature 15 | (81.550) | = 81.550 deg. F |
| temperature 16 | (81.450) | = 81.450 deg. F |
| temperature 17 | (81.550) | = 81.550 deg. F |
| temperature 18 | (81.410) | = 81.410 deg. F |
| temperature 19 | (79.010) | = 79.010 deg. F |
| temperature 20 | (81.250) | = 81.250 deg. F |
| temperature 21 | (80.760) | = 80.760 deg. F |
| temperature 22 | (80.130) | = 80.130 deg. F |
| temperature 23 | (80.130) | = 80.130 deg. F |
| temperature 24 | (78.610) | = 78.610 deg. F |
| temperature 25 | (79.910) | = 79.910 deg. F |
| temperature 26 | (79.280) | = 79.280 deg. F |
| temperature 27 | (79.300) | = 79.300 deg. F |
| temperature 28 | (78.260) | = 78.260 deg. F |
| temperature 29 | (77.880) | = 77.880 deg. F |
| temperature 30 | (75.530) | = 75.530 deg. F |
| dewpoint 1 | (80.850) | = 80.850 deg. F , 0.5211 psia |
| dewpoint 2 | (79.170) | = 79.170 deg. F , 0.4932 psia |
| dewpoint 3 | (77.880) | = 77.880 deg. F , 0.4727 psia |
| dewpoint 4 | (73.580) | = 73.580 deg. F , 0.4097 psia |
| dewpoint 5 | (74.810) | = 74.810 deg. F , 0.4269 psia |
| dewpoint 6 | (74.180) | = 74.180 deg. F , 0.4180 psia |
| pressure 1 | (59.7945) | = 59.7945 psia |
| pressure 2 | (59.8046) | = 59.8046 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.42403 deg. F |
| pressure | = | 59.79450 psia |
| vapor pressure | = | 0.45777 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813976.01 lbm |

1992 VEGP Unit 2 Verification

data : 9

time = 200 date = 420

| sensor | raw data | value |
|-------------|-----------------|-----------------------------|
| temperature | 1 (83.380) = | 83.380 deg. F |
| temperature | 2 (82.770) = | 82.770 deg. F |
| temperature | 3 (83.270) = | 83.270 deg. F |
| temperature | 4 (83.180) = | 83.180 deg. F |
| temperature | 5 (83.420) = | 83.420 deg. F |
| temperature | 6 (83.390) = | 83.390 deg. F |
| temperature | 7 (83.310) = | 83.310 deg. F |
| temperature | 8 (84.160) = | 84.160 deg. F |
| temperature | 9 (83.110) = | 83.110 deg. F |
| temperature | 10 (83.030) = | 83.030 deg. F |
| temperature | 11 (81.630) = | 81.630 deg. F |
| temperature | 12 (83.040) = | 83.040 deg. F |
| temperature | 13 (81.970) = | 81.970 deg. F |
| temperature | 14 (82.580) = | 82.580 deg. F |
| temperature | 15 (81.530) = | 81.530 deg. F |
| temperature | 16 (81.410) = | 81.410 deg. F |
| temperature | 17 (81.510) = | 81.510 deg. F |
| temperature | 18 (81.380) = | 81.380 deg. F |
| temperature | 19 (78.990) = | 78.990 deg. F |
| temperature | 20 (81.230) = | 81.230 deg. F |
| temperature | 21 (80.730) = | 80.730 deg. F |
| temperature | 22 (80.120) = | 80.120 deg. F |
| temperature | 23 (80.120) = | 80.120 deg. F |
| temperature | 24 (78.600) = | 78.600 deg. F |
| temperature | 25 (79.910) = | 79.910 deg. F |
| temperature | 26 (79.270) = | 79.270 deg. F |
| temperature | 27 (79.290) = | 79.290 deg. F |
| temperature | 28 (78.270) = | 78.270 deg. F |
| temperature | 29 (77.870) = | 77.870 deg. F |
| temperature | 30 (75.530) = | 75.530 deg. F |
| dewpoint | 1 (80.820) = | 80.820 deg. F , 0.5206 psia |
| dewpoint | 2 (79.180) = | 79.180 deg. F , 0.4934 psia |
| dewpoint | 3 (77.790) = | 77.790 deg. F , 0.4713 psia |
| dewpoint | 4 (73.600) = | 73.600 deg. F , 0.4100 psia |
| dewpoint | 5 (74.760) = | 74.760 deg. F , 0.4262 psia |
| dewpoint | 6 (74.180) = | 74.180 deg. F , 0.4180 psia |
| pressure | 1 (59.7902) = | 59.7902 psia |
| pressure | 2 (59.8001) = | 59.8001 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.39735 deg. F |
| pressure | = | 59.79020 psia |
| vapor pressure | = | 0.45742 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813961.94 lbm |

1992 VEGP Unit 2 Verification

data set 10

time = 215 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.340) | = 83.340 deg. F |
| temperature 2 | (82.730) | = 82.730 deg. F |
| temperature 3 | (83.240) | = 83.240 deg. F |
| temperature 4 | (83.140) | = 83.140 deg. F |
| temperature 5 | (83.380) | = 83.380 deg. F |
| temperature 6 | (83.350) | = 83.350 deg. F |
| temperature 7 | (83.240) | = 83.240 deg. F |
| temperature 8 | (84.130) | = 84.130 deg. F |
| temperature 9 | (83.060) | = 83.060 deg. F |
| temperature 10 | (82.990) | = 82.990 deg. F |
| temperature 11 | (81.590) | = 81.590 deg. F |
| temperature 12 | (82.990) | = 82.990 deg. F |
| temperature 13 | (81.940) | = 81.940 deg. F |
| temperature 14 | (82.540) | = 82.540 deg. F |
| temperature 15 | (81.490) | = 81.490 deg. F |
| temperature 16 | (81.380) | = 81.380 deg. F |
| temperature 17 | (81.490) | = 81.490 deg. F |
| temperature 18 | (81.360) | = 81.360 deg. F |
| temperature 19 | (78.950) | = 78.950 deg. F |
| temperature 20 | (81.200) | = 81.200 deg. F |
| temperature 21 | (80.710) | = 80.710 deg. F |
| temperature 22 | (80.120) | = 80.120 deg. F |
| temperature 23 | (80.120) | = 80.120 deg. F |
| temperature 24 | (78.600) | = 78.600 deg. F |
| temperature 25 | (79.910) | = 79.910 deg. F |
| temperature 26 | (79.270) | = 79.270 deg. F |
| temperature 27 | (79.290) | = 79.290 deg. F |
| temperature 28 | (78.270) | = 78.270 deg. F |
| temperature 29 | (77.870) | = 77.870 deg. F |
| temperature 30 | (75.510) | = 75.510 deg. F |
| dewpoint 1 | (80.800) | = 80.800 deg. F , 0.5202 psia |
| dewpoint 2 | (79.170) | = 79.170 deg. F , 0.4932 psia |
| dewpoint 3 | (77.760) | = 77.760 deg. F , 0.4709 psia |
| dewpoint 4 | (73.630) | = 73.630 deg. F , 0.4104 psia |
| dewpoint 5 | (74.860) | = 74.860 deg. F , 0.4276 psia |
| dewpoint 6 | (74.180) | = 74.180 deg. F , 0.4180 psia |
| pressure 1 | (59.7859) | = 59.7859 psia |
| pressure 2 | (59.7954) | = 59.7954 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.36905 deg. F |
| pressure | = | 59.78590 psia |
| vapor pressure | = | 0.45750 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813944.55 lbm |

1992 VEGP Unit 2 Verification

data set 11

time = 230 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.310) | = 83.310 deg. F |
| temperature 2 | (82.700) | = 82.700 deg. F |
| temperature 3 | (83.210) | = 83.210 deg. F |
| temperature 4 | (83.110) | = 83.110 deg. F |
| temperature 5 | (83.330) | = 83.330 deg. F |
| temperature 6 | (83.310) | = 83.310 deg. F |
| temperature 7 | (83.180) | = 83.180 deg. F |
| temperature 8 | (84.070) | = 84.070 deg. F |
| temperature 9 | (83.020) | = 83.020 deg. F |
| temperature 10 | (82.960) | = 82.960 deg. F |
| temperature 11 | (81.560) | = 81.560 deg. F |
| temperature 12 | (82.950) | = 82.950 deg. F |
| temperature 13 | (81.890) | = 81.890 deg. F |
| temperature 14 | (82.510) | = 82.510 deg. F |
| temperature 15 | (81.450) | = 81.450 deg. F |
| temperature 16 | (81.350) | = 81.350 deg. F |
| temperature 17 | (81.450) | = 81.450 deg. F |
| temperature 18 | (81.330) | = 81.330 deg. F |
| temperature 19 | (78.920) | = 78.920 deg. F |
| temperature 20 | (81.160) | = 81.160 deg. F |
| temperature 21 | (80.680) | = 80.680 deg. F |
| temperature 22 | (80.100) | = 80.100 deg. F |
| temperature 23 | (80.110) | = 80.110 deg. F |
| temperature 24 | (78.580) | = 78.580 deg. F |
| temperature 25 | (79.890) | = 79.890 deg. F |
| temperature 26 | (79.250) | = 79.250 deg. F |
| temperature 27 | (79.280) | = 79.280 deg. F |
| temperature 28 | (78.270) | = 78.270 deg. F |
| temperature 29 | (77.860) | = 77.860 deg. F |
| temperature 30 | (75.510) | = 75.510 deg. F |
| dewpoint 1 | (80.790) | = 80.790 deg. F , 0.5201 psia |
| dewpoint 2 | (79.110) | = 79.110 deg. F , 0.4923 psia |
| dewpoint 3 | (77.850) | = 77.850 deg. F , 0.4723 psia |
| dewpoint 4 | (73.650) | = 73.650 deg. F , 0.4107 psia |
| dewpoint 5 | (74.800) | = 74.800 deg. F , 0.4268 psia |
| dewpoint 6 | (74.160) | = 74.160 deg. F , 0.4177 psia |
| pressure 1 | (59.7813) | = 59.7813 psia |
| pressure 2 | (59.7909) | = 59.7909 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.33791 deg. F |
| pressure | = | 59.78130 psia |
| vapor pressure | = | 0.45745 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813928.88 lbm |

1992 EGP Unit 2 Verification

data set 12

time = 245 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.260) | = 83.260 deg. F |
| temperature 2 | (82.650) | = 82.650 deg. F |
| temperature 3 | (83.170) | = 83.170 deg. F |
| temperature 4 | (83.060) | = 83.060 deg. F |
| temperature 5 | (83.290) | = 83.290 deg. F |
| temperature 6 | (83.280) | = 83.280 deg. F |
| temperature 7 | (83.180) | = 83.180 deg. F |
| temperature 8 | (84.030) | = 84.030 deg. F |
| temperature 9 | (82.980) | = 82.980 deg. F |
| temperature 10 | (82.930) | = 82.930 deg. F |
| temperature 11 | (81.530) | = 81.530 deg. F |
| temperature 12 | (82.900) | = 82.900 deg. F |
| temperature 13 | (81.860) | = 81.860 deg. F |
| temperature 14 | (82.480) | = 82.480 deg. F |
| temperature 15 | (81.430) | = 81.430 deg. F |
| temperature 16 | (81.320) | = 81.320 deg. F |
| temperature 17 | (81.420) | = 81.420 deg. F |
| temperature 18 | (81.290) | = 81.290 deg. F |
| temperature 19 | (78.900) | = 78.900 deg. F |
| temperature 20 | (81.130) | = 81.130 deg. F |
| temperature 21 | (80.680) | = 80.680 deg. F |
| temperature 22 | (80.100) | = 80.100 deg. F |
| temperature 23 | (80.110) | = 80.110 deg. F |
| temperature 24 | (78.600) | = 78.600 deg. F |
| temperature 25 | (79.900) | = 79.900 deg. F |
| temperature 26 | (79.260) | = 79.260 deg. F |
| temperature 27 | (79.270) | = 79.270 deg. F |
| temperature 28 | (78.260) | = 78.260 deg. F |
| temperature 29 | (77.870) | = 77.870 deg. F |
| temperature 30 | (75.500) | = 75.500 deg. F |
| dewpoint 1 | (80.760) | = 80.760 deg. F , 0.5196 psia |
| dewpoint 2 | (79.130) | = 79.130 deg. F , 0.4926 psia |
| dewpoint 3 | (77.850) | = 77.850 deg. F , 0.4723 psia |
| dewpoint 4 | (73.620) | = 73.620 deg. F , 0.4102 psia |
| dewpoint 5 | (74.810) | = 74.810 deg. F , 0.4269 psia |
| dewpoint 6 | (74.170) | = 74.170 deg. F , 0.4179 psia |
| pressure 1 | (59.7770) | = 59.7770 psia |
| pressure 2 | (59.7866) | = 59.7866 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.31451 deg. F |
| pressure | = | 59.77700 psia |
| vapor pressure | = | 0.45740 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813905.76 lbm |

1992 VEGP Unit 2 Verification

data set 13

time = 300 date = 420

| sensor | | raw data | | value | |
|-------------|----|-------------|---|---------------|-------------|
| temperature | 1 | (83.230) | = | 83.230 deg. F | |
| temperature | 2 | (82.630) | = | 82.630 deg. F | |
| temperature | 3 | (83.130) | = | 83.130 deg. F | |
| temperature | 4 | (83.020) | = | 83.020 deg. F | |
| temperature | 5 | (83.260) | = | 83.260 deg. F | |
| temperature | 6 | (83.230) | = | 83.230 deg. F | |
| temperature | 7 | (83.130) | = | 83.130 deg. F | |
| temperature | 8 | (83.990) | = | 83.990 deg. F | |
| temperature | 9 | (82.930) | = | 82.930 deg. F | |
| temperature | 10 | (82.890) | = | 82.890 deg. F | |
| temperature | 11 | (81.500) | = | 81.500 deg. F | |
| temperature | 12 | (82.860) | = | 82.860 deg. F | |
| temperature | 13 | (81.830) | = | 81.830 deg. F | |
| temperature | 14 | (82.450) | = | 82.450 deg. F | |
| temperature | 15 | (81.410) | = | 81.410 deg. F | |
| temperature | 16 | (81.300) | = | 81.300 deg. F | |
| temperature | 17 | (81.390) | = | 81.390 deg. F | |
| temperature | 18 | (81.260) | = | 81.260 deg. F | |
| temperature | 19 | (78.880) | = | 78.880 deg. F | |
| temperature | 20 | (81.090) | = | 81.090 deg. F | |
| temperature | 21 | (80.660) | = | 80.660 deg. F | |
| temperature | 22 | (80.080) | = | 80.080 deg. F | |
| temperature | 23 | (80.100) | = | 80.100 deg. F | |
| temperature | 24 | (78.580) | = | 78.580 deg. F | |
| temperature | 25 | (79.880) | = | 79.880 deg. F | |
| temperature | 26 | (79.240) | = | 79.240 deg. F | |
| temperature | 27 | (79.270) | = | 79.270 deg. F | |
| temperature | 28 | (78.250) | = | 78.250 deg. F | |
| temperature | 29 | (77.860) | = | 77.860 deg. F | |
| temperature | 30 | (75.500) | = | 75.500 deg. F | |
| dewpoint | 1 | (80.700) | = | 80.700 deg. F | 0.5185 psia |
| dewpoint | 2 | (79.130) | = | 79.130 deg. F | 0.4926 psia |
| dewpoint | 3 | (77.770) | = | 77.770 deg. F | 0.4710 psia |
| dewpoint | 4 | (73.660) | = | 73.660 deg. F | 0.4108 psia |
| dewpoint | 5 | (74.840) | = | 74.840 deg. F | 0.4274 psia |
| dewpoint | 6 | (74.180) | = | 74.180 deg. F | 0.4180 psia |
| pressure | 1 | (59.7726) | = | 59.7726 psia | |
| pressure | 2 | (59.7821) | = | 59.7821 psia | |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.28658 deg. F |
| pressure | = | 59.77260 psia |
| vapor pressure | = | 0.45719 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813890.35 lbm |

1992 VEG Unit 2 Verification

data set 14

time = 315 date = 420

| sensor | | raw data | | value | |
|-------------|----|-------------|---|---------------|-------------|
| temperature | 1 | (83.200) | = | 83.200 deg. F | |
| temperature | 2 | (82.580) | = | 82.580 deg. F | |
| temperature | 3 | (83.100) | = | 83.100 deg. F | |
| temperature | 4 | (82.980) | = | 82.980 deg. F | |
| temperature | 5 | (83.220) | = | 83.220 deg. F | |
| temperature | 6 | (83.220) | = | 83.220 deg. F | |
| temperature | 7 | (83.110) | = | 83.110 deg. F | |
| temperature | 8 | (83.960) | = | 83.960 deg. F | |
| temperature | 9 | (82.910) | = | 82.910 deg. F | |
| temperature | 10 | (82.840) | = | 82.840 deg. F | |
| temperature | 11 | (81.470) | = | 81.470 deg. F | |
| temperature | 12 | (82.810) | = | 82.810 deg. F | |
| temperature | 13 | (81.800) | = | 81.800 deg. F | |
| temperature | 14 | (82.420) | = | 82.420 deg. F | |
| temperature | 15 | (81.390) | = | 81.390 deg. F | |
| temperature | 16 | (81.270) | = | 81.270 deg. F | |
| temperature | 17 | (81.360) | = | 81.360 deg. F | |
| temperature | 18 | (81.240) | = | 81.240 deg. F | |
| temperature | 19 | (78.860) | = | 78.860 deg. F | |
| temperature | 20 | (81.070) | = | 81.070 deg. F | |
| temperature | 21 | (80.650) | = | 80.650 deg. F | |
| temperature | 22 | (80.060) | = | 80.060 deg. F | |
| temperature | 23 | (80.040) | = | 80.040 deg. F | |
| temperature | 24 | (78.570) | = | 78.570 deg. F | |
| temperature | 25 | (79.880) | = | 79.880 deg. F | |
| temperature | 26 | (79.240) | = | 79.240 deg. F | |
| temperature | 27 | (79.270) | = | 79.270 deg. F | |
| temperature | 28 | (78.230) | = | 78.230 deg. F | |
| temperature | 29 | (77.860) | = | 77.860 deg. F | |
| temperature | 30 | (75.490) | = | 75.490 deg. F | |
| dewpoint | 1 | (80.720) | = | 80.720 deg. F | 0.5189 psia |
| dewpoint | 2 | (79.060) | = | 79.060 deg. F | 0.4915 psia |
| dewpoint | 3 | (77.660) | = | 77.660 deg. F | 0.4693 psia |
| dewpoint | 4 | (73.620) | = | 73.620 deg. F | 0.4102 psia |
| dewpoint | 5 | (74.880) | = | 74.880 deg. F | 0.4279 psia |
| dewpoint | 6 | (74.170) | = | 74.170 deg. F | 0.4179 psia |
| pressure | 1 | (59.7680) | = | 59.7680 psia | |
| pressure | 2 | (59.7773) | = | 59.7773 psia | |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.26124 deg. F |
| pressure | = | 59.76800 psia |
| vapor pressure | = | 0.45665 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813872.82 lbm |

1992 VEGP Unit 2 Verification

data set 15

time = 330 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.170) | = 83.170 deg. F |
| temperature 2 | (82.550) | = 82.550 deg. F |
| temperature 3 | (83.060) | = 83.060 deg. F |
| temperature 4 | (82.970) | = 82.970 deg. F |
| temperature 5 | (83.180) | = 83.180 deg. F |
| temperature 6 | (83.180) | = 83.180 deg. F |
| temperature 7 | (83.070) | = 83.070 deg. F |
| temperature 8 | (83.950) | = 83.950 deg. F |
| temperature 9 | (82.860) | = 82.860 deg. F |
| temperature 10 | (82.810) | = 82.810 deg. F |
| temperature 11 | (81.440) | = 81.440 deg. F |
| temperature 12 | (82.760) | = 82.760 deg. F |
| temperature 13 | (81.780) | = 81.780 deg. F |
| temperature 14 | (82.400) | = 82.400 deg. F |
| temperature 15 | (81.350) | = 81.350 deg. F |
| temperature 16 | (81.240) | = 81.240 deg. F |
| temperature 17 | (81.340) | = 81.340 deg. F |
| temperature 18 | (81.210) | = 81.210 deg. F |
| temperature 19 | (78.840) | = 78.840 deg. F |
| temperature 20 | (81.060) | = 81.060 deg. F |
| temperature 21 | (80.630) | = 80.630 deg. F |
| temperature 22 | (80.030) | = 80.030 deg. F |
| temperature 23 | (80.050) | = 80.050 deg. F |
| temperature 24 | (78.580) | = 78.580 deg. F |
| temperature 25 | (79.880) | = 79.880 deg. F |
| temperature 26 | (79.240) | = 79.240 deg. F |
| temperature 27 | (79.260) | = 79.260 deg. F |
| temperature 28 | (78.250) | = 78.250 deg. F |
| temperature 29 | (77.860) | = 77.860 deg. F |
| temperature 30 | (75.490) | = 75.490 deg. F |
| dewpoint 1 | (80.710) | = 80.710 deg. F , 0.5187 psia |
| dewpoint 2 | (79.050) | = 79.050 deg. F , 0.4913 psia |
| dewpoint 3 | (77.630) | = 77.630 deg. F , 0.4689 psia |
| dewpoint 4 | (73.640) | = 73.640 deg. F , 0.4105 psia |
| dewpoint 5 | (74.860) | = 74.860 deg. F , 0.4276 psia |
| dewpoint 6 | (74.190) | = 74.190 deg. F , 0.4182 psia |
| pressure 1 | (59.7636) | = 59.7636 psia |
| pressure 2 | (59.7727) | = 59.7727 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.23942 deg. F |
| pressure | = | 59.76360 psia |
| vapor pressure | = | 0.45657 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813846.36 lbm |

199~ VEGP Unit 2 Verification

data set 16

time = 345 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.130) | = 83.130 deg. F |
| temperature 2 | (82.520) | = 82.520 deg. F |
| temperature 3 | (83.020) | = 83.020 deg. F |
| temperature 4 | (82.930) | = 82.930 deg. F |
| temperature 5 | (83.160) | = 83.160 deg. F |
| temperature 6 | (83.150) | = 83.150 deg. F |
| temperature 7 | (83.050) | = 83.050 deg. F |
| temperature 8 | (83.920) | = 83.920 deg. F |
| temperature 9 | (82.820) | = 82.820 deg. F |
| temperature 10 | (82.750) | = 82.750 deg. F |
| temperature 11 | (81.410) | = 81.410 deg. F |
| temperature 12 | (82.720) | = 82.720 deg. F |
| temperature 13 | (81.750) | = 81.750 deg. F |
| temperature 14 | (82.370) | = 82.370 deg. F |
| temperature 15 | (81.330) | = 81.330 deg. F |
| temperature 16 | (81.200) | = 81.200 deg. F |
| temperature 17 | (81.320) | = 81.320 deg. F |
| temperature 18 | (81.180) | = 81.180 deg. F |
| temperature 19 | (78.820) | = 78.820 deg. F |
| temperature 20 | (81.030) | = 81.030 deg. F |
| temperature 21 | (80.610) | = 80.610 deg. F |
| temperature 22 | (80.000) | = 80.000 deg. F |
| temperature 23 | (80.020) | = 80.020 deg. F |
| temperature 24 | (78.560) | = 78.560 deg. F |
| temperature 25 | (79.860) | = 79.860 deg. F |
| temperature 26 | (79.220) | = 79.220 deg. F |
| temperature 27 | (79.250) | = 79.250 deg. F |
| temperature 28 | (78.240) | = 78.240 deg. F |
| temperature 29 | (77.850) | = 77.850 deg. F |
| temperature 30 | (75.480) | = 75.480 deg. F |
| dewpoint 1 | (80.740) | = 80.740 deg. F , 0.5192 psia |
| dewpoint 2 | (79.100) | = 79.100 deg. F , 0.4921 psia |
| dewpoint 3 | (77.600) | = 77.600 deg. F , 0.4684 psia |
| dewpoint 4 | (73.640) | = 73.640 deg. F , 0.4105 psia |
| dewpoint 5 | (74.820) | = 74.820 deg. F , 0.4271 psia |
| dewpoint 6 | (74.170) | = 74.170 deg. F , 0.4179 psia |
| pressure 1 | (59.7593) | = 59.7593 psia |
| pressure 2 | (59.7685) | = 59.7685 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.21155 deg. F |
| pressure | = | 59.75930 psia |
| vapor pressure | = | 0.45659 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813828.96 lbm |

1992 VEGP Unit 2 Verification

data set 17

time = 400 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.110) | = 83.110 deg. F |
| temperature 2 | (82.480) | = 82.480 deg. F |
| temperature 3 | (83.000) | = 83.000 deg. F |
| temperature 4 | (82.900) | = 82.900 deg. F |
| temperature 5 | (83.110) | = 83.110 deg. F |
| temperature 6 | (83.110) | = 83.110 deg. F |
| temperature 7 | (83.010) | = 83.010 deg. F |
| temperature 8 | (83.880) | = 83.880 deg. F |
| temperature 9 | (82.790) | = 82.790 deg. F |
| temperature 10 | (82.720) | = 82.720 deg. F |
| temperature 11 | (81.370) | = 81.370 deg. F |
| temperature 12 | (82.690) | = 82.690 deg. F |
| temperature 13 | (81.710) | = 81.710 deg. F |
| temperature 14 | (82.330) | = 82.330 deg. F |
| temperature 15 | (81.300) | = 81.300 deg. F |
| temperature 16 | (81.180) | = 81.180 deg. F |
| temperature 17 | (81.290) | = 81.290 deg. F |
| temperature 18 | (81.170) | = 81.170 deg. F |
| temperature 19 | (78.800) | = 78.800 deg. F |
| temperature 20 | (81.010) | = 81.010 deg. F |
| temperature 21 | (80.600) | = 80.600 deg. F |
| temperature 22 | (79.980) | = 79.980 deg. F |
| temperature 23 | (80.000) | = 80.000 deg. F |
| temperature 24 | (78.560) | = 78.560 deg. F |
| temperature 25 | (79.830) | = 79.830 deg. F |
| temperature 26 | (79.210) | = 79.210 deg. F |
| temperature 27 | (79.240) | = 79.240 deg. F |
| temperature 28 | (78.240) | = 78.240 deg. F |
| temperature 29 | (77.850) | = 77.850 deg. F |
| temperature 30 | (75.460) | = 75.460 deg. F |
| dewpoint 1 | (80.720) | = 80.720 deg. F , 0.5189 psia |
| dewpoint 2 | (79.000) | = 79.000 deg. F , 0.4905 psia |
| dewpoint 3 | (77.470) | = 77.470 deg. F , 0.4664 psia |
| dewpoint 4 | (73.540) | = 73.540 deg. F , 0.4091 psia |
| dewpoint 5 | (74.880) | = 74.880 deg. F , 0.4279 psia |
| dewpoint 6 | (74.190) | = 74.190 deg. F , 0.4182 psia |
| pressure 1 | (59.7546) | = 59.7546 psia |
| pressure 2 | (59.7640) | = 59.7640 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.18564 deg. F |
| pressure | = | 59.75460 psia |
| vapor pressure | = | 0.45576 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813814.86 lbm |

1992 VEGP Unit 2 Verification

data set 18

time = 415 date = 420

| sensor | raw data | value |
|----------------|-------------|-------------------------------|
| temperature 1 | (83.070) | = 83.070 deg. F |
| temperature 2 | (82.440) | = 82.440 deg. F |
| temperature 3 | (82.970) | = 82.970 deg. F |
| temperature 4 | (82.850) | = 82.850 deg. F |
| temperature 5 | (83.080) | = 83.080 deg. F |
| temperature 6 | (83.080) | = 83.080 deg. F |
| temperature 7 | (82.980) | = 82.980 deg. F |
| temperature 8 | (83.850) | = 83.850 deg. F |
| temperature 9 | (82.740) | = 82.740 deg. F |
| temperature 10 | (82.680) | = 82.680 deg. F |
| temperature 11 | (81.350) | = 81.350 deg. F |
| temperature 12 | (82.630) | = 82.630 deg. F |
| temperature 13 | (81.690) | = 81.690 deg. F |
| temperature 14 | (82.300) | = 82.300 deg. F |
| temperature 15 | (81.270) | = 81.270 deg. F |
| temperature 16 | (81.150) | = 81.150 deg. F |
| temperature 17 | (81.270) | = 81.270 deg. F |
| temperature 18 | (81.140) | = 81.140 deg. F |
| temperature 19 | (78.760) | = 78.760 deg. F |
| temperature 20 | (81.000) | = 81.000 deg. F |
| temperature 21 | (80.570) | = 80.570 deg. F |
| temperature 22 | (79.960) | = 79.960 deg. F |
| temperature 23 | (79.990) | = 79.990 deg. F |
| temperature 24 | (78.560) | = 78.560 deg. F |
| temperature 25 | (79.830) | = 79.830 deg. F |
| temperature 26 | (79.200) | = 79.200 deg. F |
| temperature 27 | (79.220) | = 79.220 deg. F |
| temperature 28 | (78.230) | = 78.230 deg. F |
| temperature 29 | (77.850) | = 77.850 deg. F |
| temperature 30 | (75.460) | = 75.460 deg. F |
| dewpoint 1 | (80.720) | = 80.720 deg. F , 0.5189 psia |
| dewpoint 2 | (78.980) | = 78.980 deg. F , 0.4902 psia |
| dewpoint 3 | (77.560) | = 77.560 deg. F , 0.4678 psia |
| dewpoint 4 | (73.540) | = 73.540 deg. F , 0.4091 psia |
| dewpoint 5 | (74.760) | = 74.760 deg. F , 0.4262 psia |
| dewpoint 6 | (74.190) | = 74.190 deg. F , 0.4182 psia |
| pressure 1 | (59.7506) | = 59.7506 psia |
| pressure 2 | (59.7599) | = 59.7599 psia |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.15923 deg. F |
| pressure | = | 59.75060 psia |
| vapor pressure | = | 0.45576 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813799.70 lbm |

1992 VEGP Unit 2 Verification

data set 19

time = 430 date = 420

| sensor | | raw data | | value | |
|-------------|----|-------------|---|---------------|-------------|
| temperature | 1 | (83.040) | = | 83.040 deg. F | |
| temperature | 2 | (82.410) | = | 82.410 deg. F | |
| temperature | 3 | (82.910) | = | 82.910 deg. F | |
| temperature | 4 | (82.820) | = | 82.820 deg. F | |
| temperature | 5 | (83.030) | = | 83.030 deg. F | |
| temperature | 6 | (83.050) | = | 83.050 deg. F | |
| temperature | 7 | (82.930) | = | 82.930 deg. F | |
| temperature | 8 | (83.800) | = | 83.800 deg. F | |
| temperature | 9 | (82.700) | = | 82.700 deg. F | |
| temperature | 10 | (82.660) | = | 82.660 deg. F | |
| temperature | 11 | (81.310) | = | 81.310 deg. F | |
| temperature | 12 | (82.590) | = | 82.590 deg. F | |
| temperature | 13 | (81.650) | = | 81.650 deg. F | |
| temperature | 14 | (82.270) | = | 82.270 deg. F | |
| temperature | 15 | (81.240) | = | 81.240 deg. F | |
| temperature | 16 | (81.120) | = | 81.120 deg. F | |
| temperature | 17 | (81.220) | = | 81.220 deg. F | |
| temperature | 18 | (81.100) | = | 81.100 deg. F | |
| temperature | 19 | (78.740) | = | 78.740 deg. F | |
| temperature | 20 | (80.960) | = | 80.960 deg. F | |
| temperature | 21 | (80.560) | = | 80.560 deg. F | |
| temperature | 22 | (79.950) | = | 79.950 deg. F | |
| temperature | 23 | (79.970) | = | 79.970 deg. F | |
| temperature | 24 | (78.560) | = | 78.560 deg. F | |
| temperature | 25 | (79.830) | = | 79.830 deg. F | |
| temperature | 26 | (79.200) | = | 79.200 deg. F | |
| temperature | 27 | (79.230) | = | 79.230 deg. F | |
| temperature | 28 | (78.230) | = | 78.230 deg. F | |
| temperature | 29 | (77.850) | = | 77.850 deg. F | |
| temperature | 30 | (75.470) | = | 75.470 deg. F | |
| dewpoint | 1 | (80.640) | = | 80.640 deg. F | 0.5175 psia |
| dewpoint | 2 | (79.000) | = | 79.000 deg. F | 0.4905 psia |
| dewpoint | 3 | (77.460) | = | 77.460 deg. F | 0.4662 psia |
| dewpoint | 4 | (73.570) | = | 73.570 deg. F | 0.4095 psia |
| dewpoint | 5 | (74.720) | = | 74.720 deg. F | 0.4256 psia |
| dewpoint | 6 | (74.220) | = | 74.220 deg. F | 0.4186 psia |
| pressure | 1 | (59.7460) | = | 59.7460 psia | |
| pressure | 2 | (59.7554) | = | 59.7554 psia | |

weighted averages, volume and air mass

| | | |
|----------------|---|-----------------|
| temperature | = | 81.13181 deg. F |
| pressure | = | 59.74600 psia |
| vapor pressure | = | 0.45540 psia |
| volume | = | 2750000 cu. ft. |
| dry air mass | = | 813782.72 lbm |